TOUCHSTONE EXPLORATION INC.

TSX: TXP

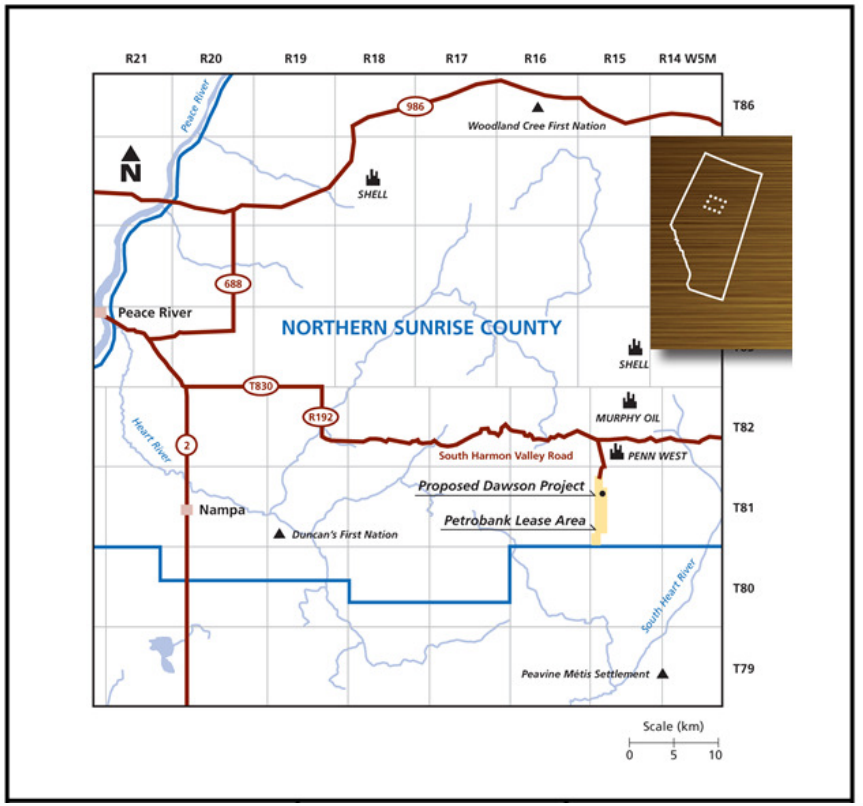
DAWSON THAI PROJECT, APPROVAL 11515E

2015 Performance Presentation

June 3, 2015

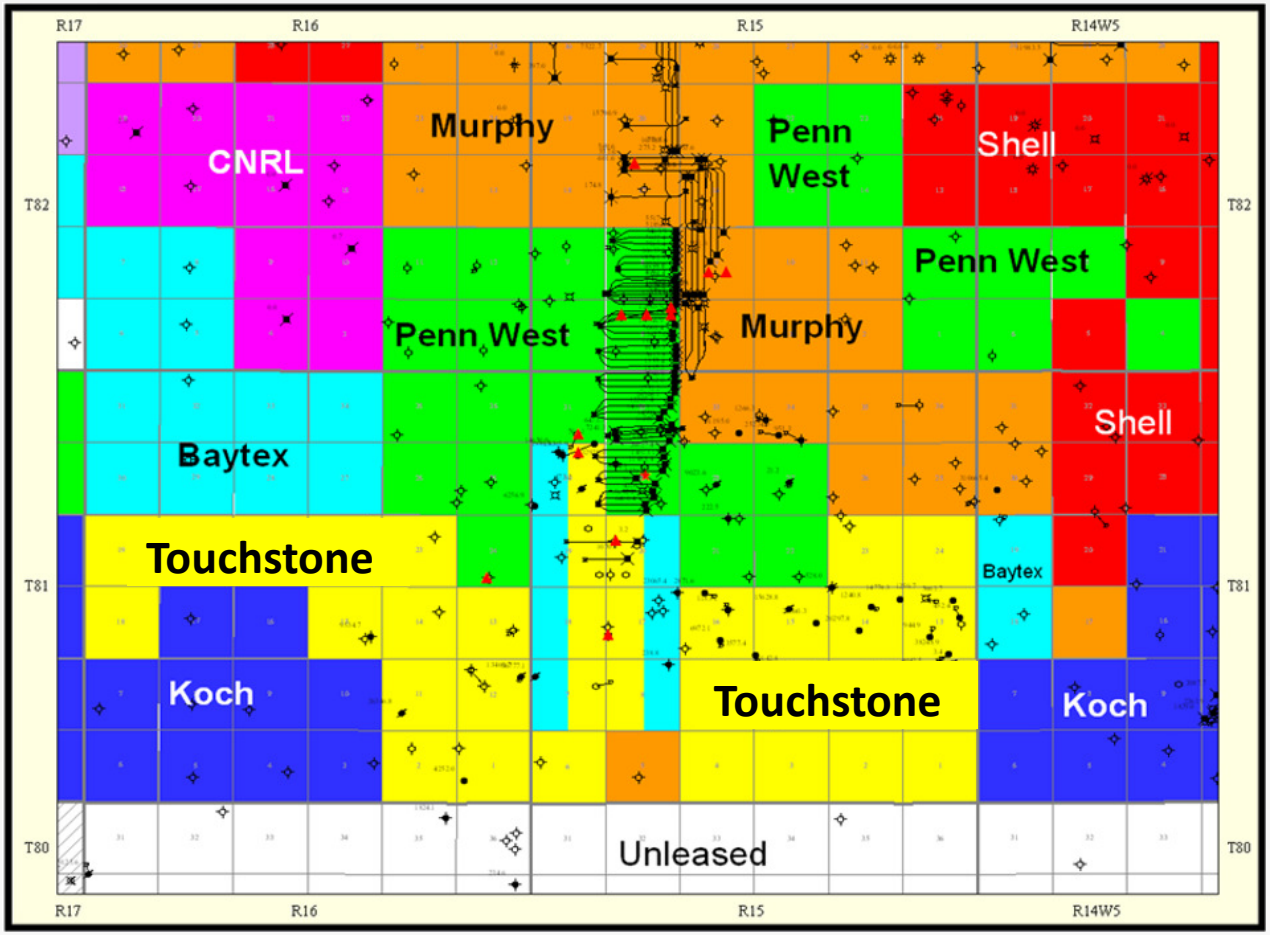
INTRODUCTION – DAWSON THAI PILOT PROJECT

- Approval 11515E
- Located within the Peace River oilsands region
- Cretaceous Bluesky/Gething formations contain 88 billion bbls of bitumen within this region (1999 estimate)
- Major operators in the region
  - Shell, Baytex, Murphy, Koch, PennWest, CNRL, Southern Pacific
- May 2014 Petrobank merged with Touchstone Exploration Inc.



LAND - OWNERSHIP

- Touchstone has 100% interest in 31.5 sections
  - (Twp 81 Rge 15W5)
  - Rights up to Pekisko
  - Crown royalty
- Formations of interest
  - Bluesky (Developed, heavy oil, primary, 6 sections within pool)
  - Gething (Undeveloped, marginal potential)
  - Pekisko (Undeveloped, tight carbonate)



LAND - LOCATION

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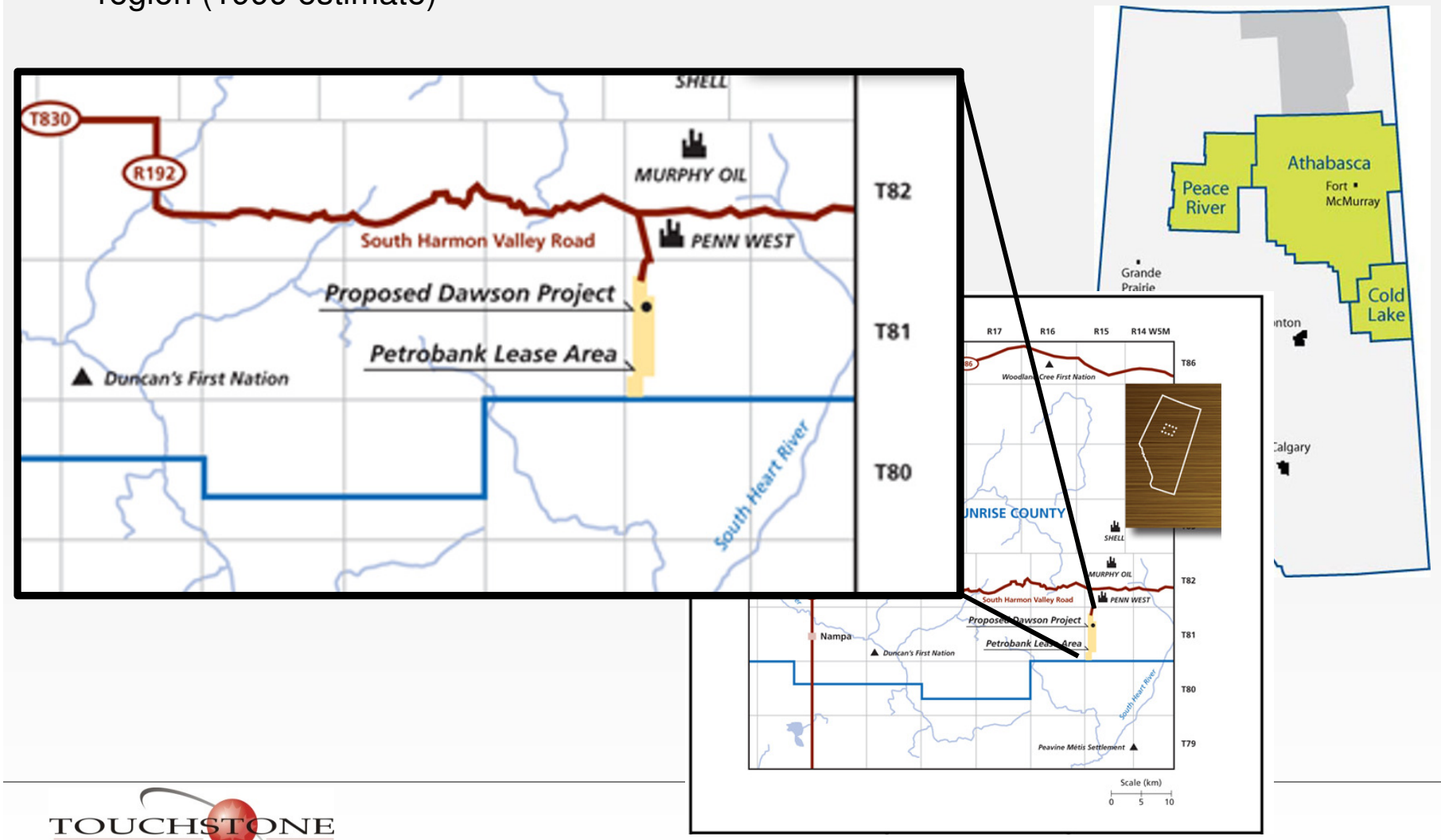
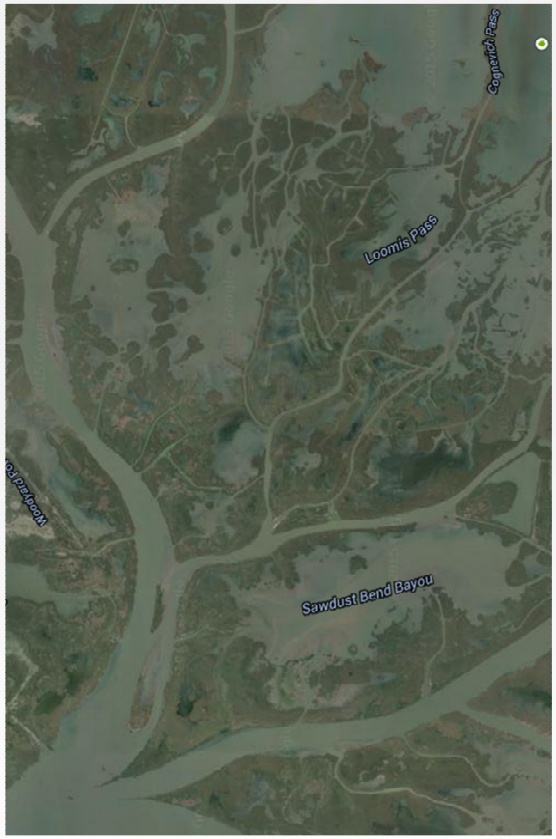
- Cretaceous Bluesky/Gething formations containe 88 billion bbls of bitumen within this region (1999 estimate)



TOUCHSTONE EXPLORATION INC.

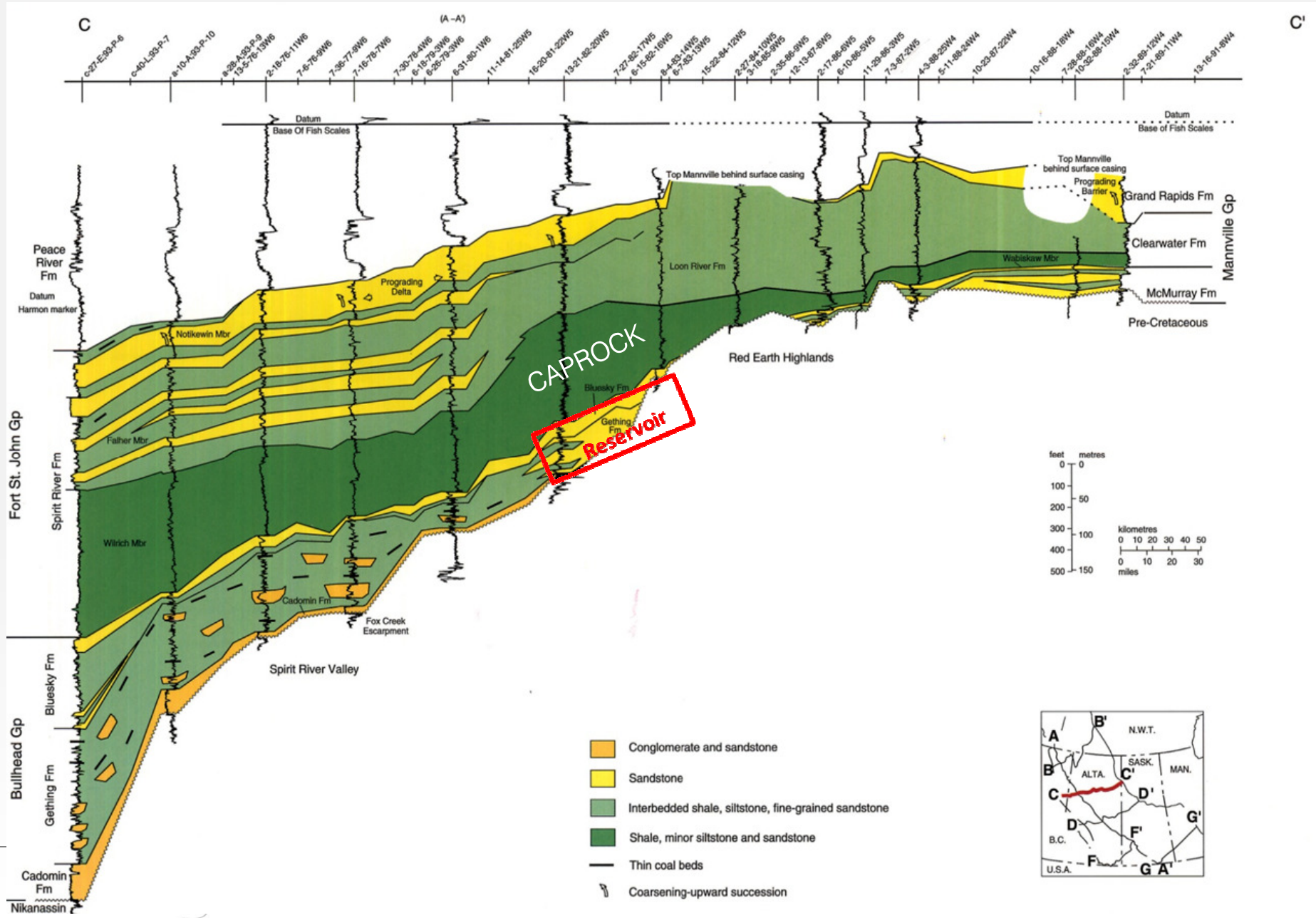
GEOSCIENCE - STRATIGRAPHY

- Series of north/south oriented, stacked distributary channels that have incised into the surrounding sand dominated tidal flat sediments

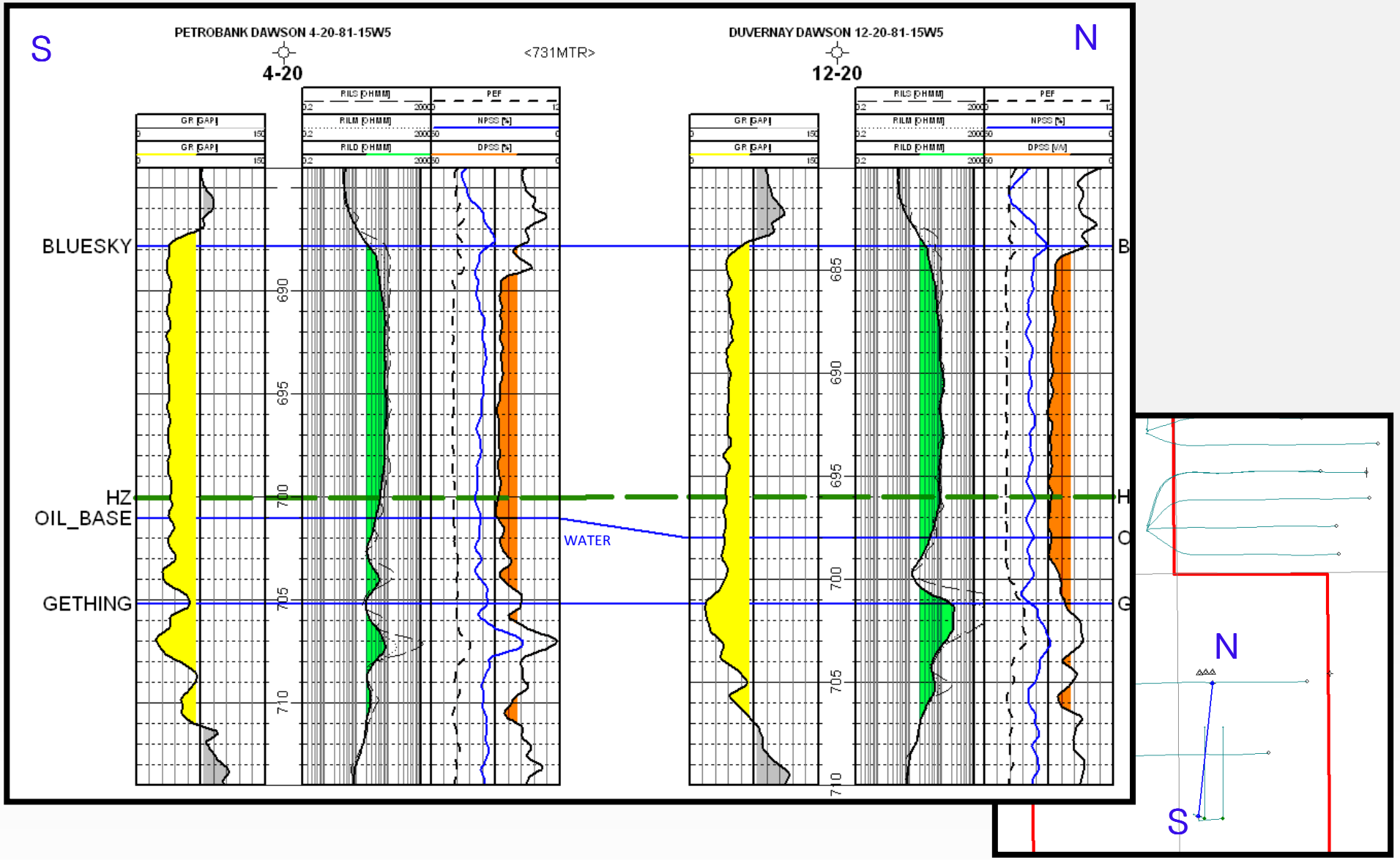


Quaternary	Glacial Drift		
Cretaceous	Smoky Group		
	Dunvegan Formation		
	Fort St John Group	Shaftsbury Formation	
		Peace River Formation	Paddy Member
			Cadotte Member
			Harmon Member
		Spirit River Formation	Notikewin Member
			Falher Member
			Wilrich Member
	Bullhead Group	Bluesky Formation	
		Gething Formation	
Carboniferous	Rundle Group	Debolt Formation	
		Elkton Member	
		Shunda Formation	
		Pekisko Formation	
	Banff Formation		
	Exshaw Formation		
Upper Devonian	Wabamun Group		
	Winterburn Group	Calmar Formation	
		Nisku Formation	
	Woodbend Group	Ireton / Leduc	
Middle Devonian	Beaverhill Lake Group	Waterways Formation	
		Slave Point Formation	
Lower Devonian	Granite Wash		
Precambrian	Precambrian		

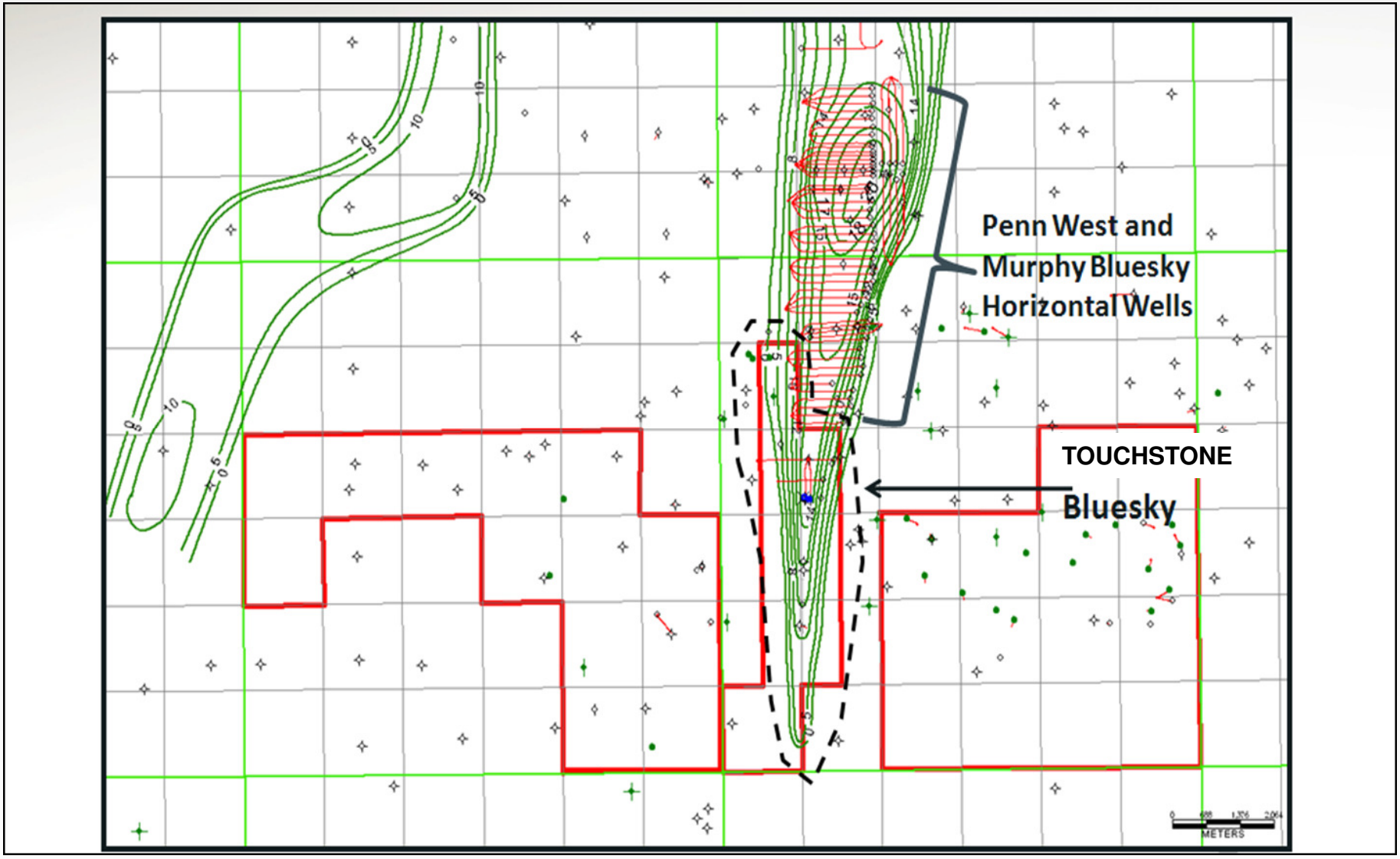
REGIONAL CROSS-SECTION



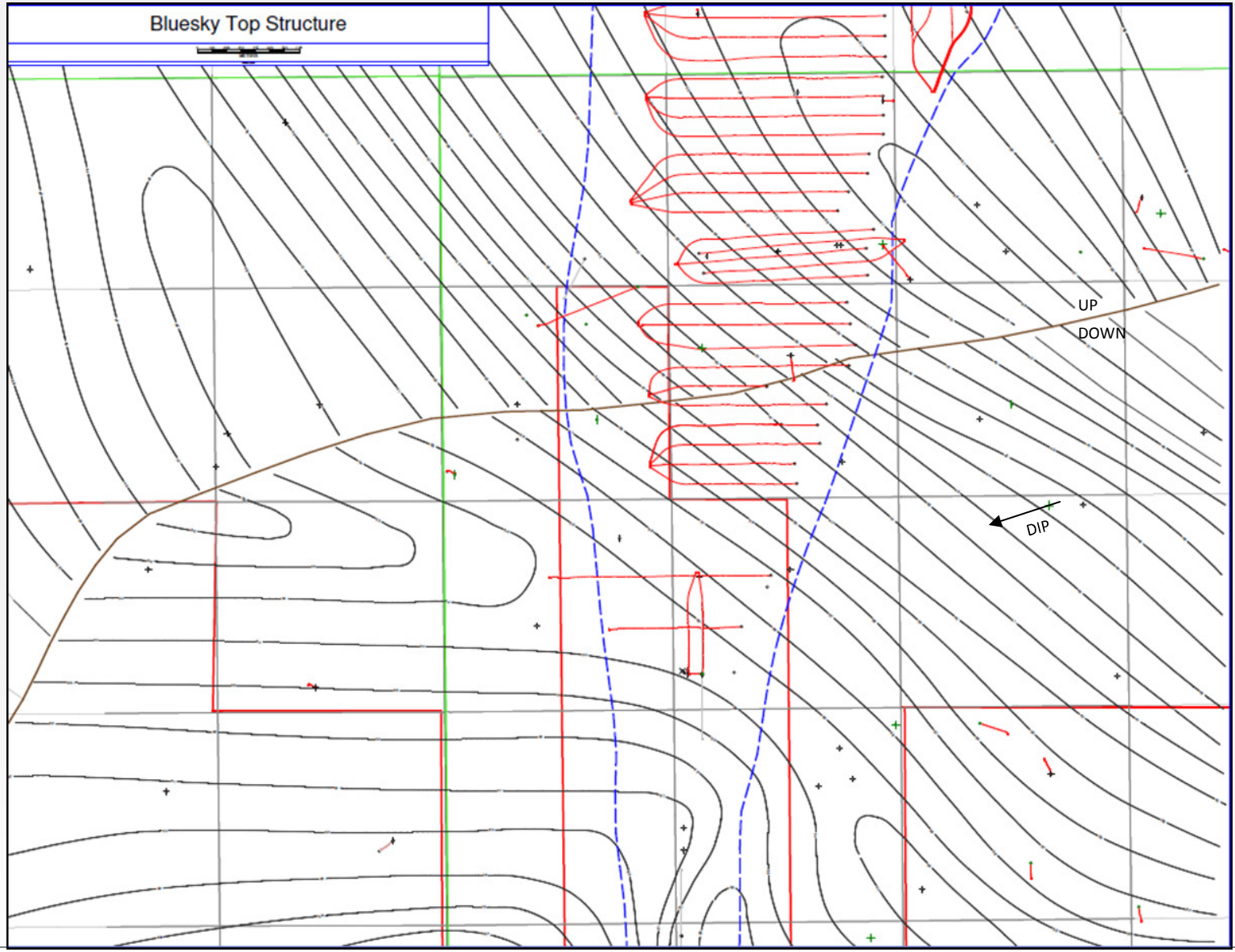
STRUCTURAL CROSS SECTION S-N Section 20-81-15W5



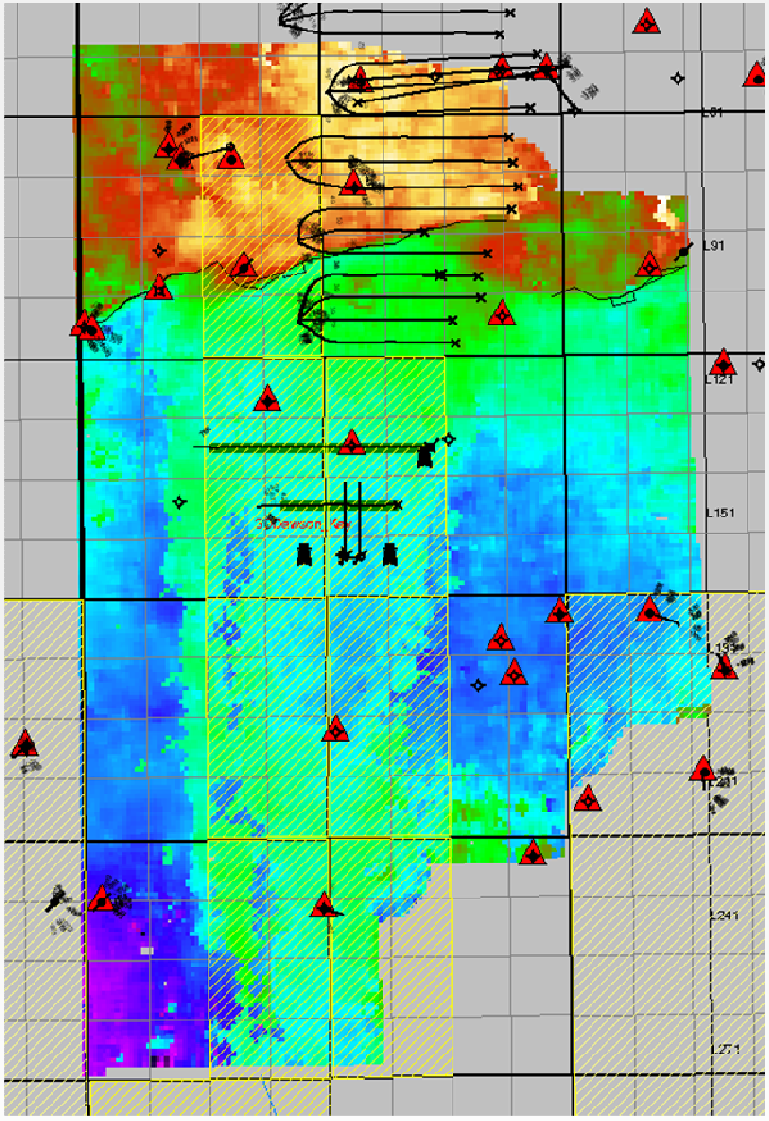
BLUESKY NET OIL PAY

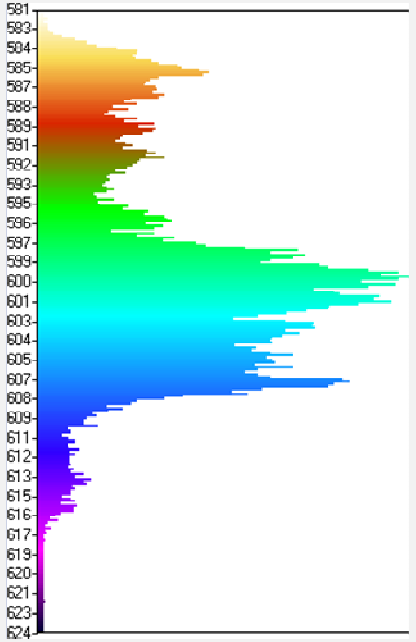


TOP BLUESKY STRUCTURE

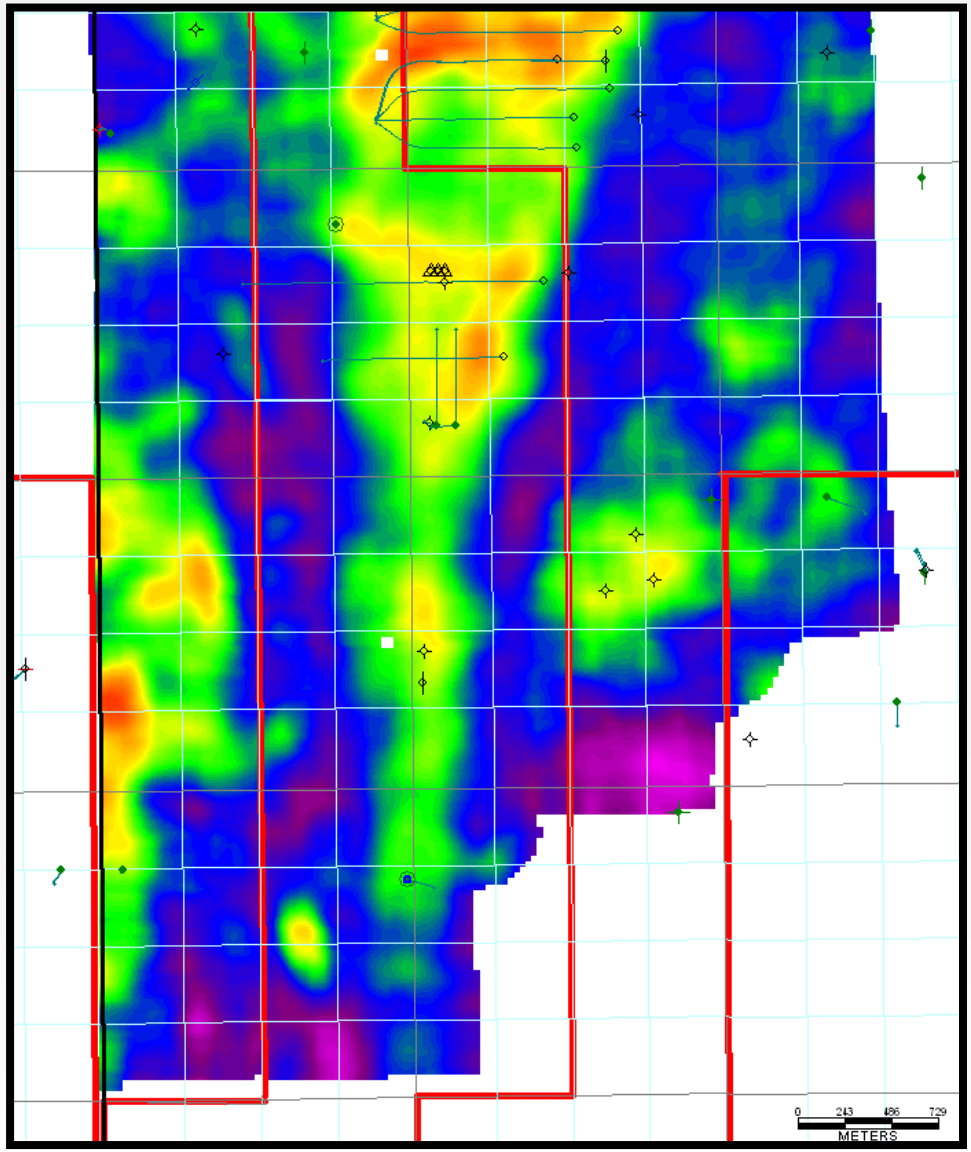


GEOPHYSICS – BLUESKY TOP (TIME)

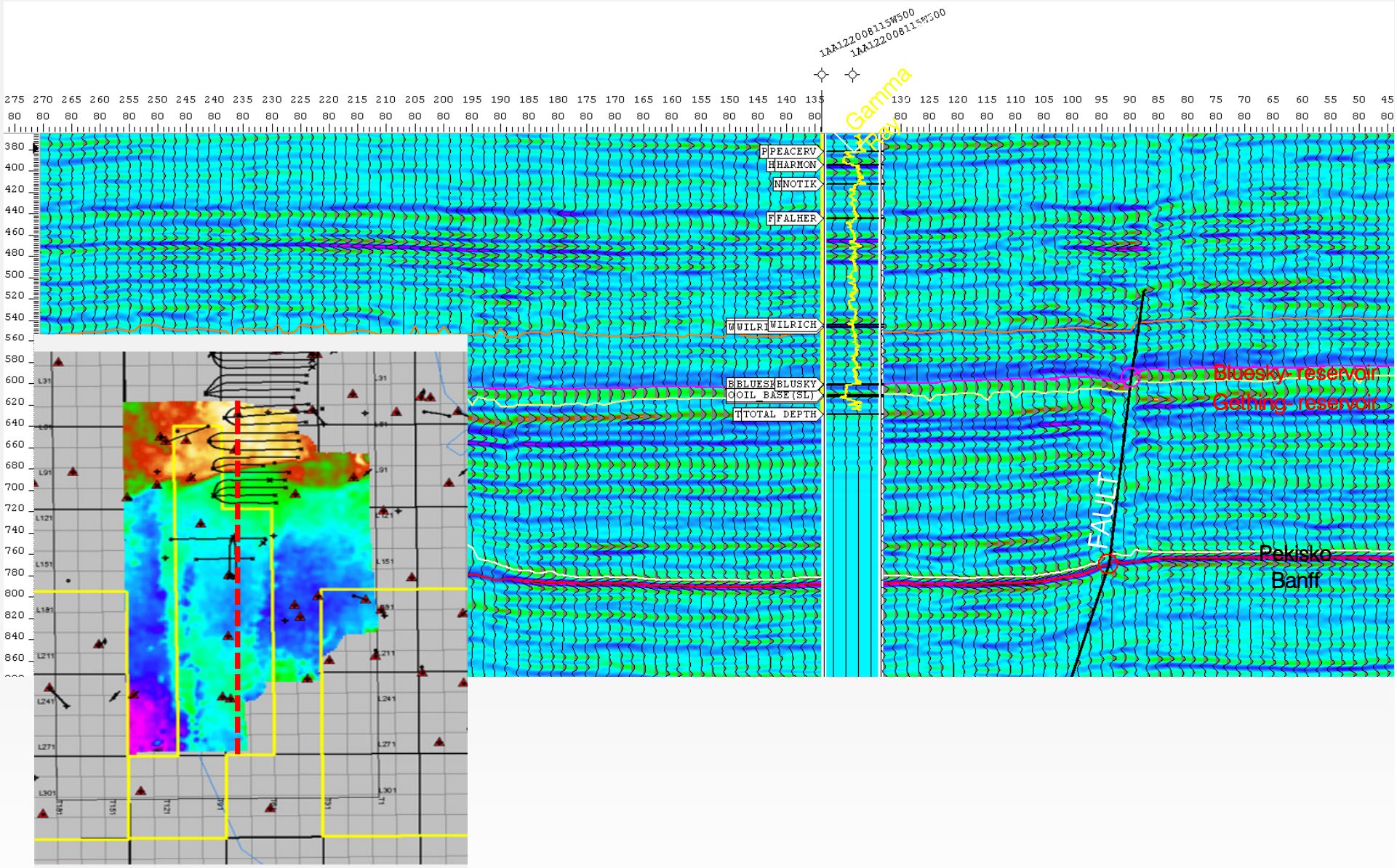




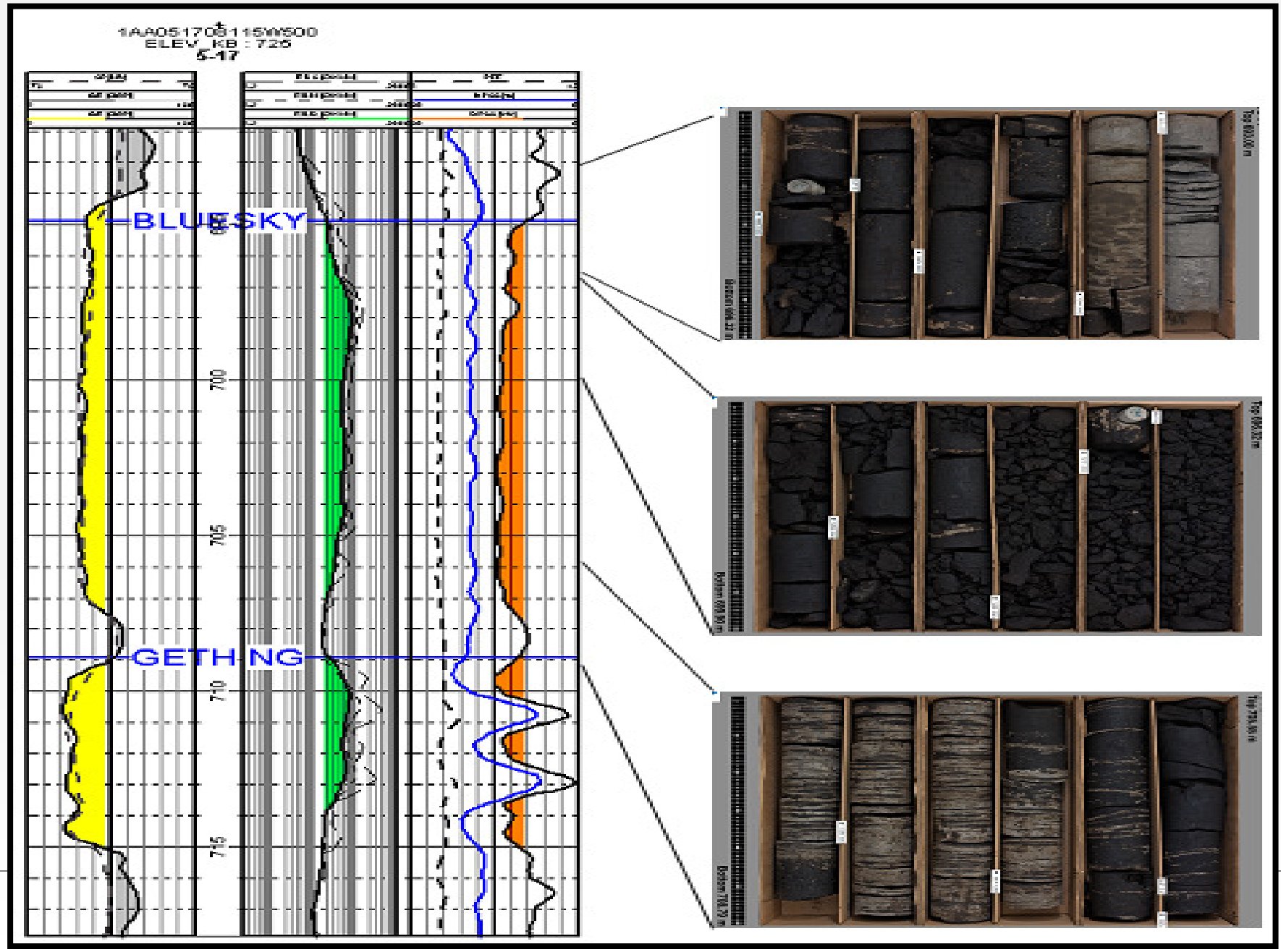
BLUESKY RMS AMPLITUDES



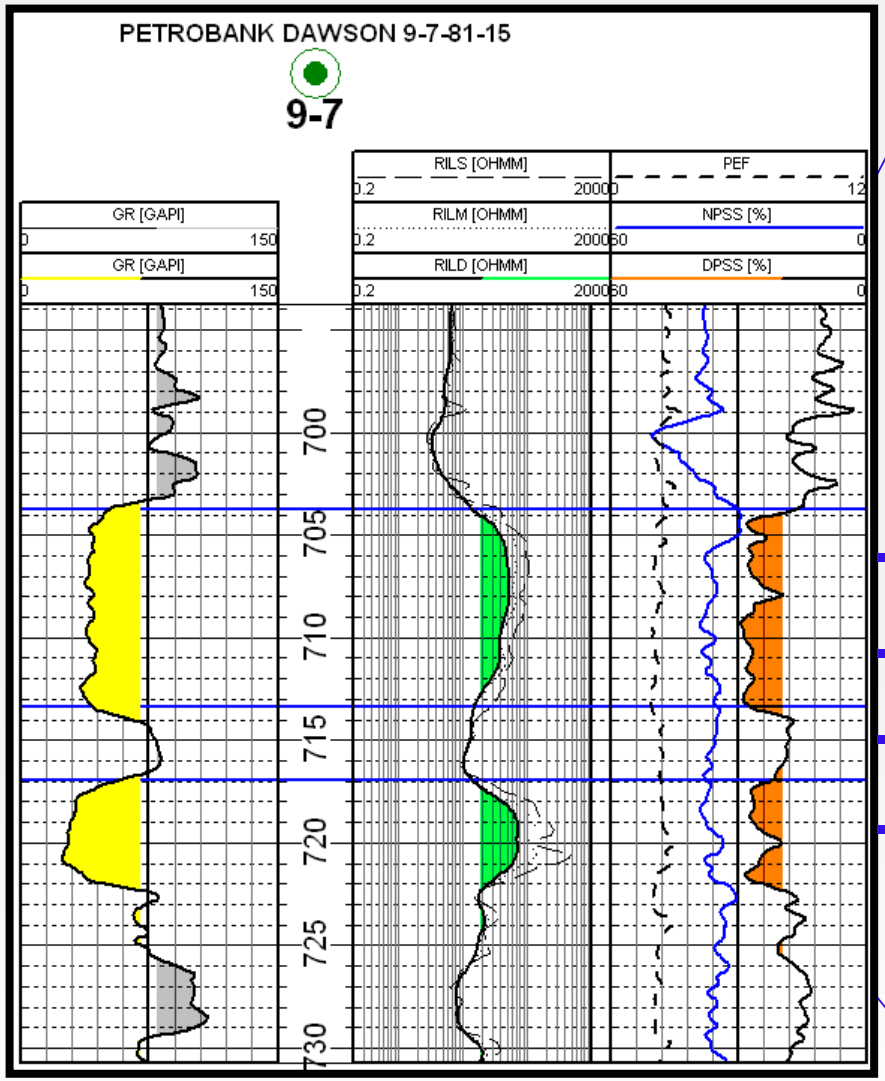
SEISMIC LINE S-N



05-17-081-15W5 REPRESENTATIVE CORE PHOTOS



09-07-081-15W5 REPRESENTATIVE CORE PHOTOS



BLUESKY ROCK AND RESERVOIR PARAMETERS

- Fine to med grained sandstone
- Formation depth: ~ 650m TVD, Net oil pay up to 15m
- Average porosity: 28%, Permeability: Kh ~ 2-3 D
- Average oil saturation: 75% -81%, Solution gas ratio: 8 m3/m3 (Ref. SPE 107201)
- Reservoir temperature: 20 °C
- Reservoir pressure Initial: 5.4 MPa@705m (1998/12, Blue sky, BH buildup test, public data
- Reservoir pressure Current: 5.2 MPa@685m (2011-2014, Blue sky, Touchstone Exploration obs.well)

API gravities, Viscosities (In general API is lower and viscosity is higher with depth in the channel)

Sampling Point	Date/Time	Date arrived	Test 1			Test 2			Test 3			Dyn. Viscosity @20ºC cP	Density @15ºC kg/m3	API Gravity @15.6ºC
			T dg.C	D.Visc. cP	Dens. kg/m3	T dg.C	D.Visc. cP	Dens. kg/m3	T dg.C	D.Visc. cP	Dens. kg/m3			
DA2(Core)	07/12/11 00:00		60.0	1,719		50.0	3,885		40.0	10,000		100,000	1011	8.3
DA2(Core)	07/12/11 00:00		60.0	581		50.0	1,154		40.0	2,565		18,000	997	10.1
DA2(Core)	07/12/11 00:00		60.0	580		50.0	1,166		40.0	2,614		19,000	999	10.0
DP1	15/11/12 00:00	23/11/12	65.0	414	962	55.0	761	968	45.0	1,604	974	15,932	993	11.0
DP1	10/01/13 00:00	16/01/13	65.0			55.0			45.0					
DP2	10/01/13 00:00	16/01/13	60.0	637	974	50.0	1,292	981	40.0	2,938	987	22,294	1003	9.5
DP1	11/02/13 00:00	14/02/13	65.0	439	970	55.0	852	976	45.0	1,834	983	21,380	1003	9.6
DP2	11/02/13 00:00	14/02/13	65.0	440	969	55.0	855	976	45.0	1,838	983	21,414	1003	9.6
DP1	20/03/13 00:00	25/03/13	50.0	1,503		40.0	3,458		30.0	8,652		26,040	1005	9.3
DP2	20/03/13 00:00	25/03/13	50.0	1,452		40.0	3,413		30.0	9,476		30,830	1005	9.3
DP1	01/12/13 00:00	11/12/13	50.0	1,208		40.0	2,640		30.0	6,480		18,670	1002	9.7
DP1	12/08/14 00:00	19/08/14	50.0	1,335		40.0	2,940		30.0	7,020		19,610	1002	9.7
DP2	12/08/14 00:00	19/08/14	50.0	1,185		40.0	2,835		30.0	7,050		21,660	1004	9.4

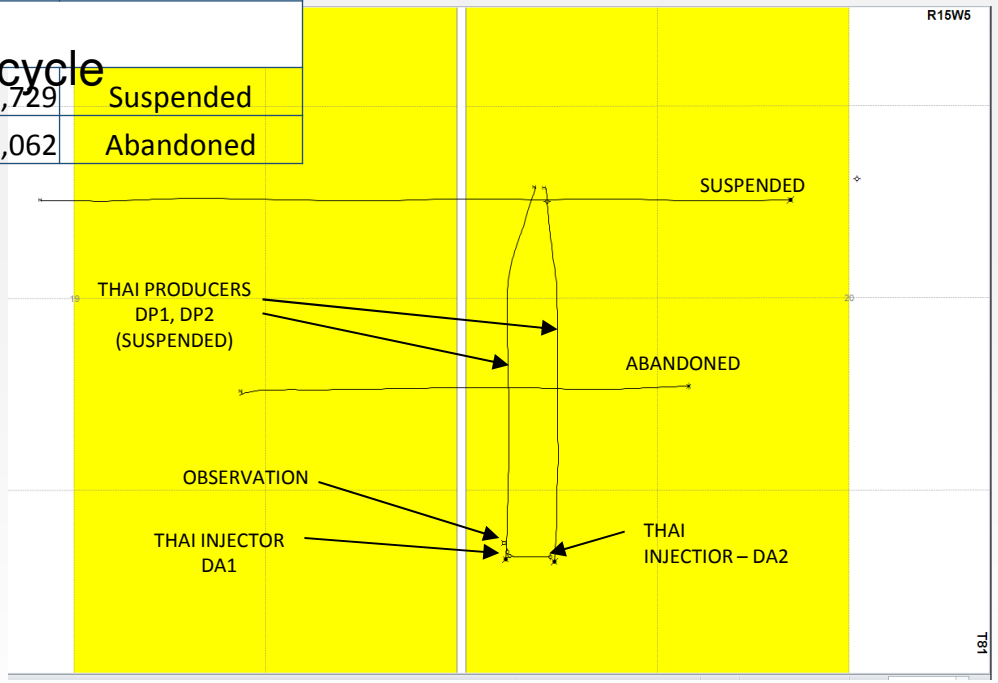
EXISTING WELLS

UWI (Corporate name)	Drilled	Cum Oil, m3	Cum Water, m3	Status
THAI wells:				
1AA/04-20-081-15W5 (DA1)	09/2008			Suspended
105/04-20-081-15W5 (DP1)	09/2011	746	1,660	Suspended
100/04-20-081-15W5 (DA2)	09/2011			Suspended
107/04-20-081-15W5 (DP2)	10/2011	780	3,103	Suspended
Observation well:				
106/04-20-081-15W5 (OBS1)	12/2011			
Old/Prior Touchstone Exploration wells:				
11-20-081-15W5	01/2004	3	1,729	Suspended
06-20-081-15W5	03/2005	1,071	13,062	Abandoned

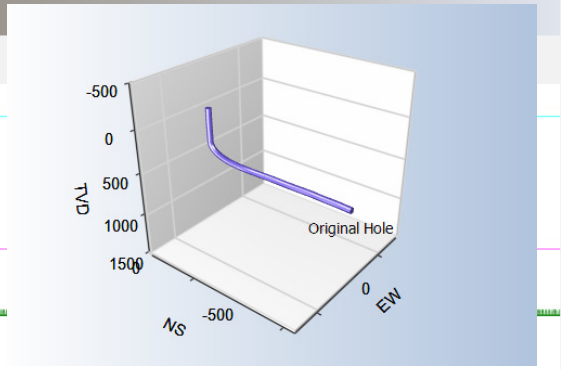
cycle

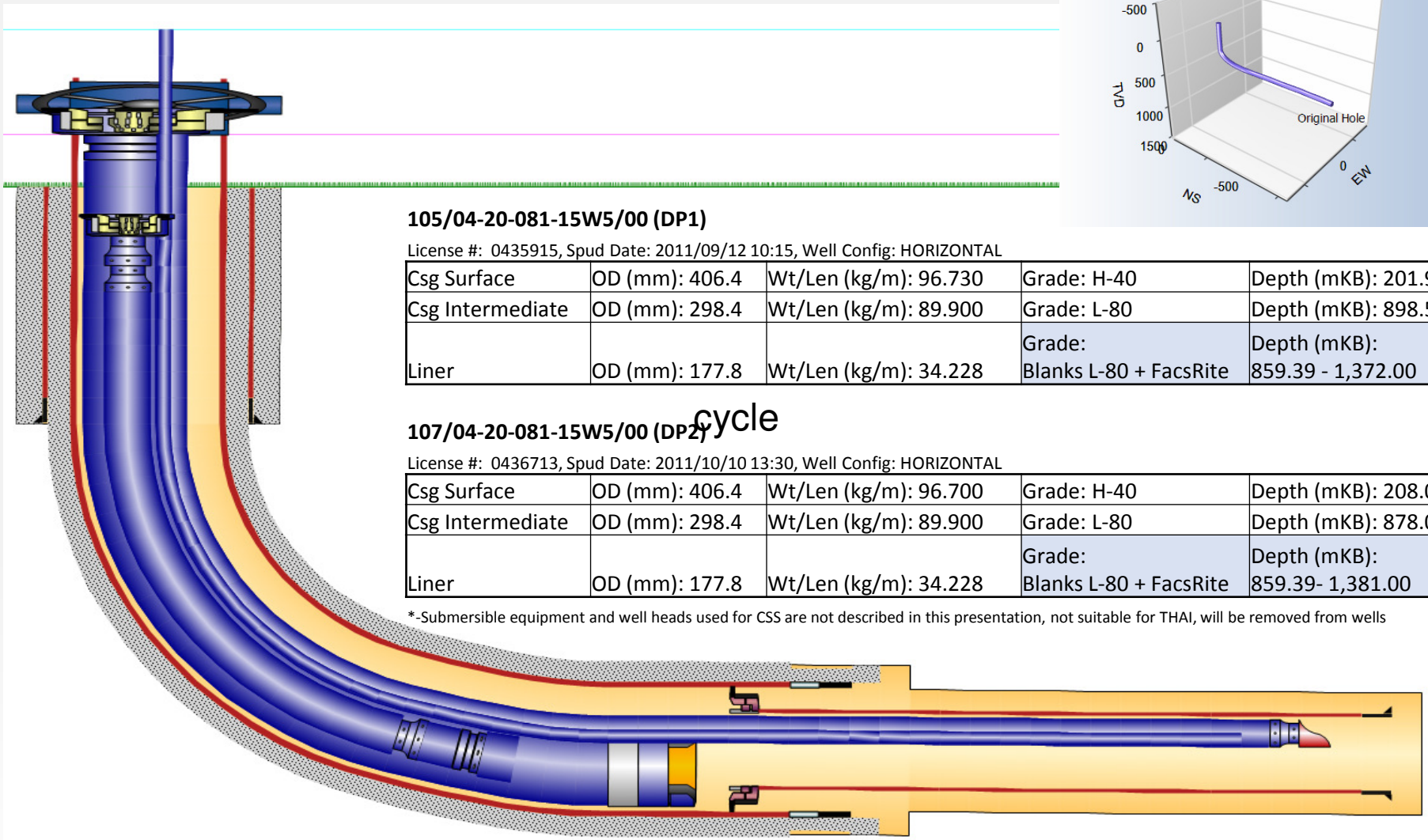
Well Abandonment/Land reclamation

UWI	Well Status / Comments	Spud Date	Reclamation scheduled for
100/08-13-081-16W5	Potential Oil	15/12/2004	31/12/2015
1AA/16-19-081-15W5	Potential Observation	29/03/2011	31/12/2025
100/11-20-081-15W5	Suspended Oil	24/01/2004	31/12/2015
100/08-13-081-15W5	Potential Oil	11/01/2005	31/12/2016
1AA/09-07-081-15W5	Dry and Abandoned, needs reclamation	22/03/2011	31/12/2023
1AA/12-20-081-15W5	Dry and Abandoned, needs reclamation	01/10/2003	06/10/2023
100/06-20-081-15W5	Abandoned, needs reclamation	01/03/2005	31/12/2018
1AA/05-17-081-15W5	Dry and Abandoned, needs reclamation	25/09/2003	31/12/2023



DRILLING AND COMPLETIONS (Producers)





105/04-20-081-15W5/00 (DP1)

License #: 0435915, Spud Date: 2011/09/12 10:15, Well Config: HORIZONTAL

Csg Surface	OD (mm): 406.4	Wt/Len (kg/m): 96.730	Grade: H-40	Depth (mKB): 201.99
Csg Intermediate	OD (mm): 298.4	Wt/Len (kg/m): 89.900	Grade: L-80	Depth (mKB): 898.50
Liner	OD (mm): 177.8	Wt/Len (kg/m): 34.228	Grade: Blanks L-80 + FacsRite	Depth (mKB): 859.39 - 1,372.00

107/04-20-081-15W5/00 (DP2) cycle

License #: 0436713, Spud Date: 2011/10/10 13:30, Well Config: HORIZONTAL

Csg Surface	OD (mm): 406.4	Wt/Len (kg/m): 96.700	Grade: H-40	Depth (mKB): 208.00
Csg Intermediate	OD (mm): 298.4	Wt/Len (kg/m): 89.900	Grade: L-80	Depth (mKB): 878.00
Liner	OD (mm): 177.8	Wt/Len (kg/m): 34.228	Grade: Blanks L-80 + FacsRite	Depth (mKB): 859.39- 1,381.00

*-Submersible equipment and well heads used for CSS are not described in this presentation, not suitable for THAI, will be removed from wells

DRILLING AND COMPLETIONS (Injection, observation wells)

04-20-081-15W5 (DA1)

License #: 0435915, Spud Date: 2008/08/28 07:30, Well Config: VERTICAL

Csg Surface	OD (mm): 244.5	Wt/Len (kg/m): 48.068	Grade: H-40	Depth (mKB): 174.91
Csg Production	OD (mm): 177.8	Wt/Len (kg/m): 34.228	Grade: L-80	Depth (mKB): 731.00
Csg Production	OD (mm): 114.3	Wt/Len (kg/m): 17.263	Grade: L-80	Depth (mKB): 730.00

100/04-20-081-15W5 (DA2)

License #: 0435915, Spud Date: 2011/12/03 05:00, Well Config: VERTICAL

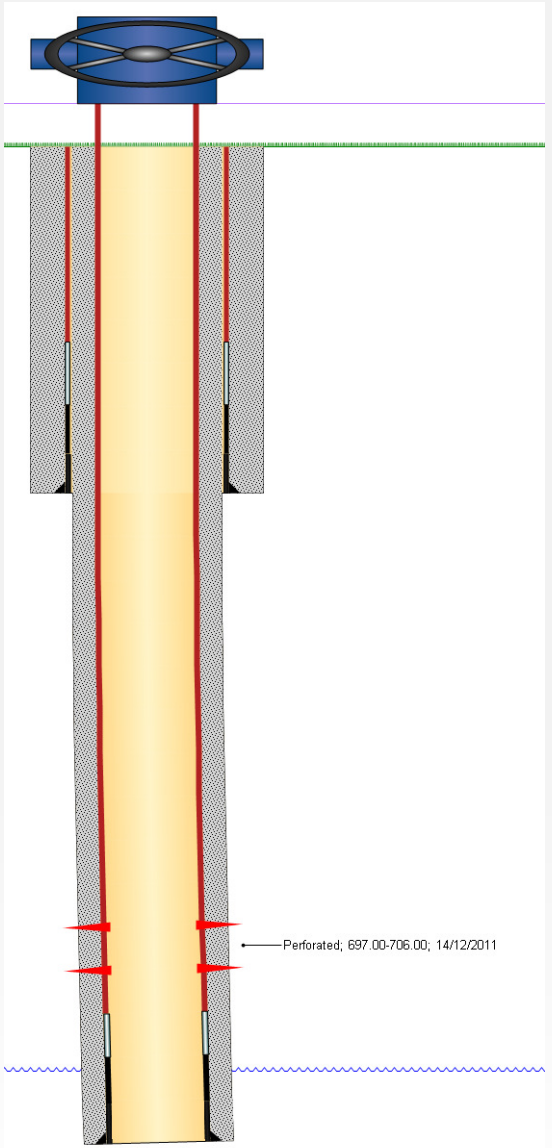
Csg Surface	OD (mm): 219.1	Wt/Len (kg/m): 35.716	Grade: J-55	Depth (mKB): 203.00
Csg Production	OD (mm): 139.7	Wt/Len (kg/m): 25.299	Grade: L-80	Depth (mKB): 743.00

04-20-081-15W5 (OBS1)

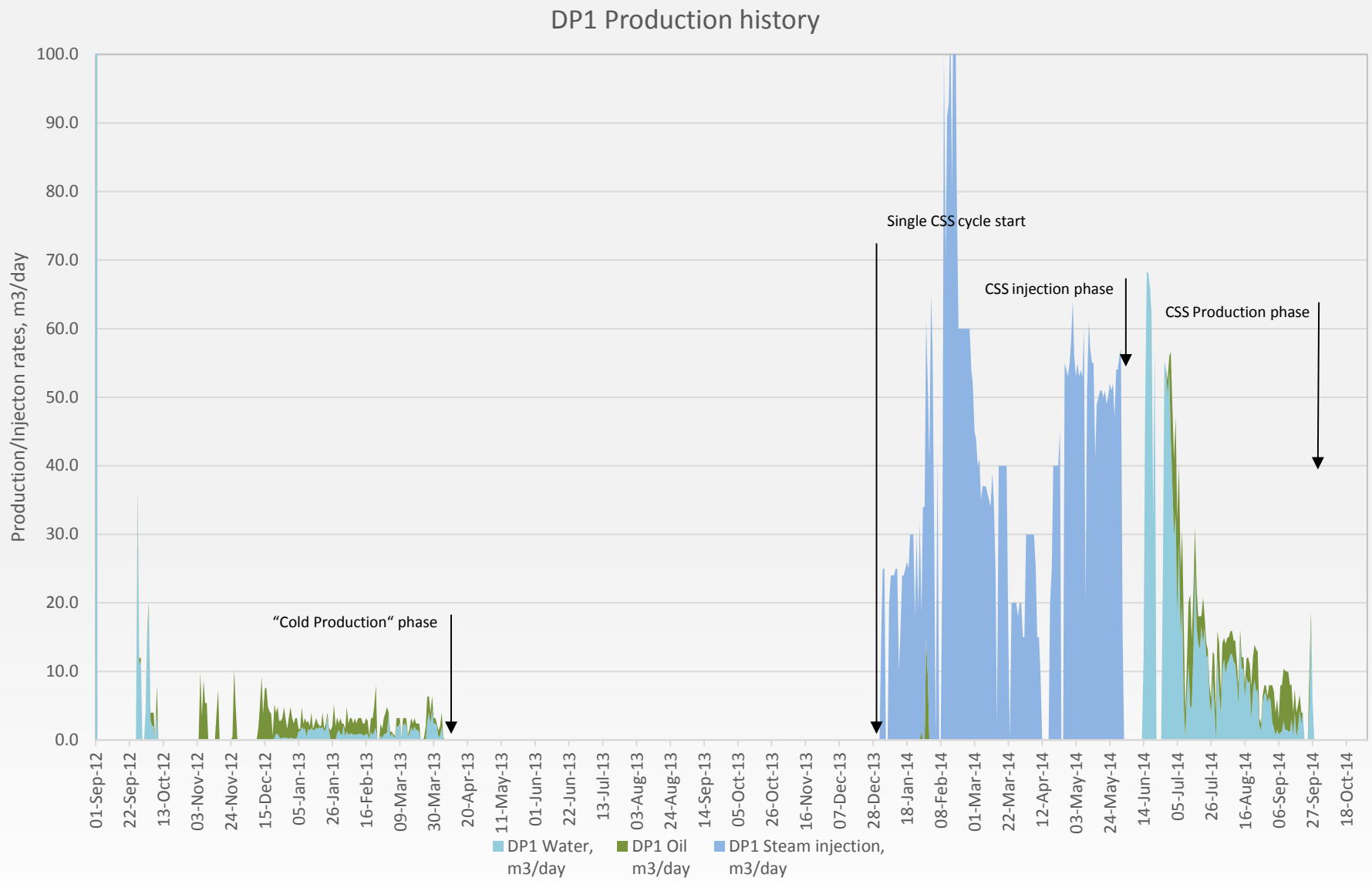
cycle

License #: 0436677, Spud Date: 2011/09/23 14:00, Well Config: DIRECTIONAL

Csg Surface	OD (mm): 219.1	Wt/Len (kg/m): 35.716	Grade: J-55	Depth (mKB): 204.00
Csg Intermediate	OD (mm): 114.3	Wt/Len (kg/m): 17.260	Grade: L-80	Depth (mKB): 727.00
Instrumentation	Four temperature, Two pressure sensors clamped to 114.3 Csg.			



PRIOR THAI PRODUCTION HISTORY



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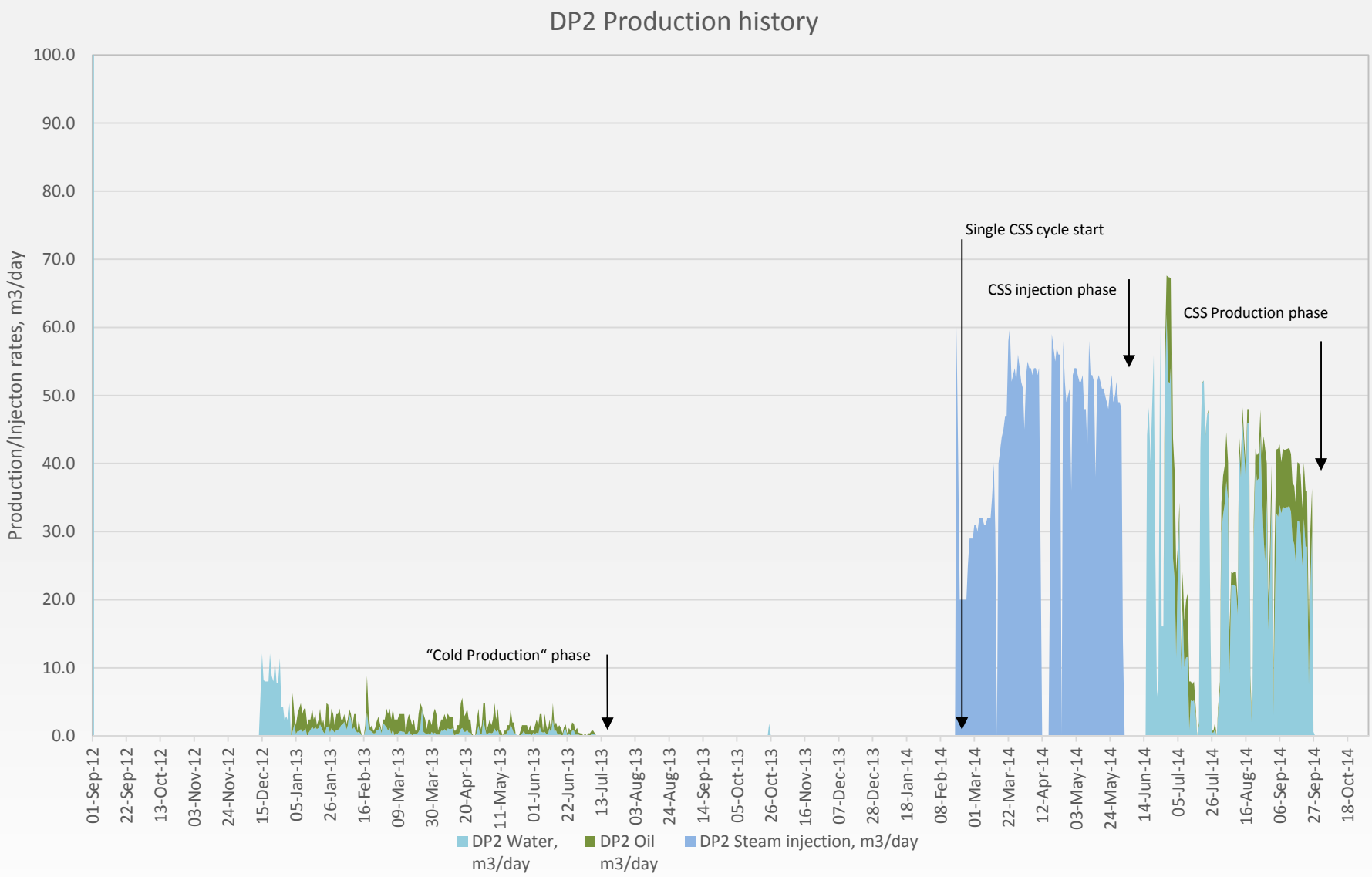


PRIOR THAI PRODUCTION HISTORY
(Includes measurement and reporting)

See appendix A for complete production log for the project

PRIOR THAI PRODUCTION HISTORY

- Both “Cold” production and CSS were tried prior to THAI to reduce original pressure in the reservoir to eliminate the possibility of combustion gases channeling in to neighboring properties/sections. Lower reservoir pressure, which does not significantly affect THAI performance, can noticeably reduce energy consumption by air injection facilities.

- The production rates during the “Cold” phase were insufficient to affect pressure in any reasonable time frame.

- CSS operating cost versus achieved production rates was very high, due mainly by water and emulsion transportation and produced water disposition, as treating and utilization facilities were not built on site. After one cycle CSS was suspended.

- Very low production rates of 1 – 1.2 m3/day of liquid during “Cold” phase and below expected production rates during CSS cycle (see worksheet in previous slide) are due to high viscosity of the pool. Viscosity gradient ranges from 15,000cPs at the top to 100,000cPs at the bottom within the pool. Both producers were drilled at the bottom of the pool to maximize recovery using THAI. Production wells drilled by other operators in the area usually located at the top of the formation.

FACILITY AND PROCESS DESRIPTION

- During “Cold” production phase, two single well batteries were set up on site, without any complicated facilities. PCP pumps were use for artificial lift and 2000bbl heated tank for each well. No measurable gas production at “cold” phase.

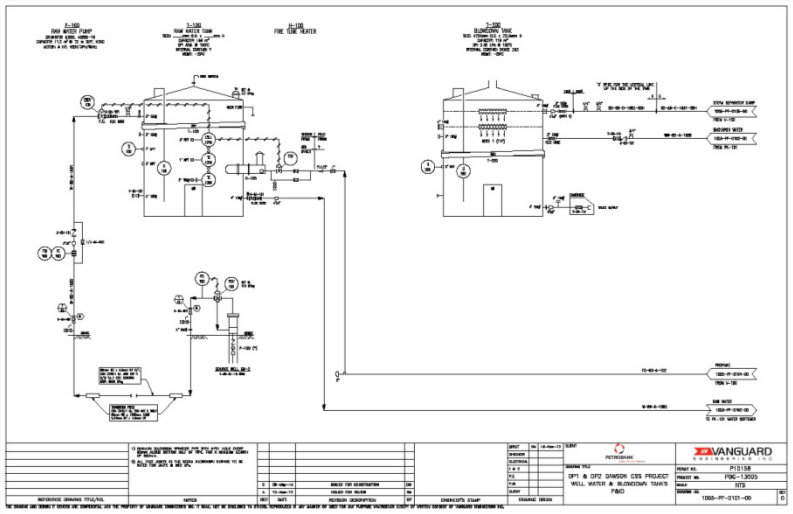
- For CSS phase simple steam injection facility was constructed. Production trains were upgraded to handle higher gas rates and hot fluids (see drawings on the next slide). As only one CSS cycle with lower than expected rates was performed and produced emulsion was not hot at the surface most of the equipment was not used. Also due to low gas production none of the gas handling equipment was utilized. After operation was suspended all equipment except oil tanks was removed from site.

- As both “Cold” and THAI were only prior to THAI temporary production phases, disposal and treating facilities were not built on site. Waste and produced water were disposed to third parties. (see production log in slide 21 for volumes)

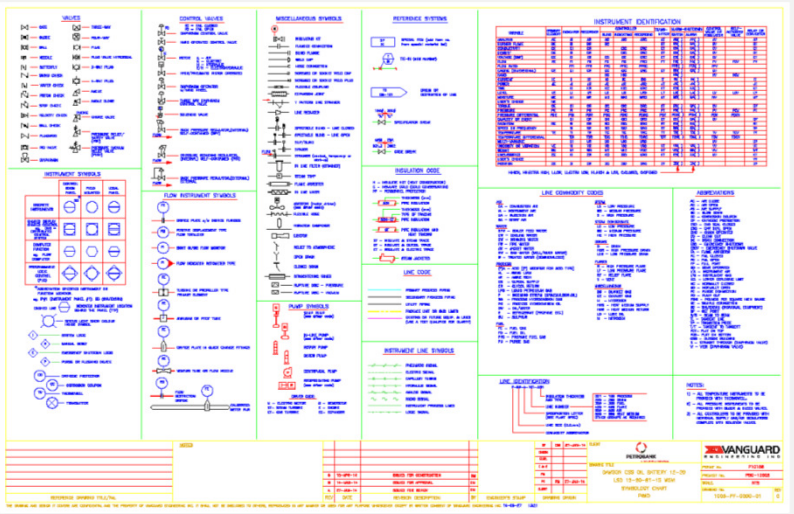
- To comply with production measurement requirements, and considering simplicity of the process each well was connected to it’s own production tank to avoid proration limitations, fluids were accounted daily based on tank inventories and trucked out volumes measured at recipients facilities. (see production log in slide 21 for volumes). Twin gas separator skid with gas meters was installed on site to separate and measure gas but as mentioned above gas rates were very low or zero. The maximum gas rate registered using different meters and equipment was 300m3/day.

FACILITY (schematics, drawings)

Steam injection facility

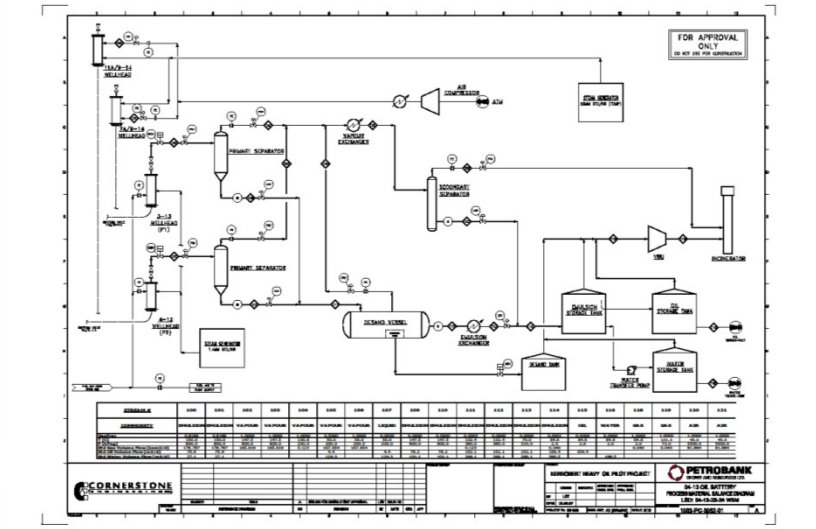


CSS Production facility



Planned THAI facility:

(THAI facilities were not constructed, none of the related equipment was brought to site)



See Appendix D,E for detailed drawings

SOURCE WATER WELL

See appendix B, C for source water well data

Project Termination

- In tandem with low commodity prices, initial performance results at Dawson along with other corporate THAI projects results, Touchstone has made the business decision not to proceed with THAI pilot at Dawson.

	DP1				DP2			
	Steam injection, m3/day	Gross fluid m3/day	Oil m3/day	Water, m3/day	Steam injection, m3/day	Gross fluid m3/day	Oil m3/day	Water, m3/day
Total:		**2405.9**	**746.1**	**1659.8**		**3882.5**	**779.6**	**3102.9**
01-Sep-12		0.0	0.0	0.0		0.0		
02-Sep-12		0.0	0.0	0.0		0.0		
03-Sep-12		0.0	0.0	0.0		0.0		
04-Sep-12		0.0	0.0	0.0		0.0		
05-Sep-12		0.0	0.0	0.0		0.0		
06-Sep-12		0.0	0.0	0.0		0.0		
07-Sep-12		0.0	0.0	0.0		0.0		
08-Sep-12		0.0	0.0	0.0		0.0		
09-Sep-12		0.0	0.0	0.0		0.0		
10-Sep-12		0.0	0.0	0.0		0.0		
11-Sep-12		0.0	0.0	0.0		0.0		
12-Sep-12		0.0	0.0	0.0		0.0		
13-Sep-12		0.0	0.0	0.0		0.0		
14-Sep-12		0.0	0.0	0.0		0.0		
15-Sep-12		0.0	0.0	0.0		0.0		
16-Sep-12		0.0	0.0	0.0		0.0		
17-Sep-12		0.0	0.0	0.0		0.0		
18-Sep-12		0.0	0.0	0.0		0.0		
19-Sep-12		0.0	0.0	0.0		0.0		
20-Sep-12		0.0	0.0	0.0		0.0		
21-Sep-12		0.0	0.0	0.0		0.0		
22-Sep-12		0.0	0.0	0.0		0.0		
23-Sep-12		0.0	0.0	0.0		0.0		
24-Sep-12		0.0	0.0	0.0		0.0		
25-Sep-12		0.0	0.0	0.0		0.0		
26-Sep-12		36.0	1.8	34.2		0.0		
27-Sep-12		12.0	1.0	11.0		0.0		
28-Sep-12		12.0	0.5	11.5		0.0		
29-Sep-12		0.0	0.0	0.0		0.0		
30-Sep-12		0.0	0.0	0.0		0.0		
01-Oct-12		4.0	0.2	3.8		0.0		
02-Oct-12		16.0	0.7	15.3		0.0		
03-Oct-12		20.0	0.9	19.1		0.0		
04-Oct-12		4.0	1.1	2.9		0.0		
05-Oct-12		4.0	1.9	2.1		0.0		
06-Oct-12		4.0	2.0	2.0		0.0		
07-Oct-12		0.0	0.0	0.0		0.0		
08-Oct-12		8.0	3.9	4.1		0.0		
09-Oct-12		0.0	0.0	0.0		0.0		
10-Oct-12		0.0	0.0	0.0		0.0		
11-Oct-12		0.0	0.0	0.0		0.0		
12-Oct-12		0.0	0.0	0.0		0.0		

13-Oct-12		0.0	0.0	0.0		0.0		
14-Oct-12		0.0	0.0	0.0		0.0		
15-Oct-12		0.0	0.0	0.0		0.0		
16-Oct-12		0.0	0.0	0.0		0.0		
17-Oct-12		0.0	0.0	0.0		0.0		
18-Oct-12		0.0	0.0	0.0		0.0		
19-Oct-12		0.0	0.0	0.0		0.0		
20-Oct-12		0.0	0.0	0.0		0.0		
21-Oct-12		0.0	0.0	0.0		0.0		
22-Oct-12		0.0	0.0	0.0		0.0		
23-Oct-12		0.0	0.0	0.0		0.0		
24-Oct-12		0.0	0.0	0.0		0.0		
25-Oct-12		0.0	0.0	0.0		0.0		
26-Oct-12		0.0	0.0	0.0		0.0		
27-Oct-12		0.0	0.0	0.0		0.0		
28-Oct-12		0.0	0.0	0.0		0.0		
29-Oct-12		0.0	0.0	0.0		0.0		
30-Oct-12		0.0	0.0	0.0		0.0		
31-Oct-12		0.0	0.0	0.0		0.0		
01-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
02-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
03-Nov-12		0.2	0.2	0.0		0.0	0.0	0.0
04-Nov-12		9.9	9.9	0.0		0.0	0.0	0.0
05-Nov-12		3.4	3.4	0.0		0.0	0.0	0.0
06-Nov-12		8.7	8.7	0.0		0.0	0.0	0.0
07-Nov-12		5.4	5.4	0.0		0.0	0.0	0.0
08-Nov-12		5.4	5.4	0.0		0.0	0.0	0.0
09-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
10-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
11-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
12-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
13-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
14-Nov-12		3.6	3.6	0.0		0.0	0.0	0.0
15-Nov-12		7.3	7.3	0.0		0.0	0.0	0.0
16-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
17-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
18-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
19-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
20-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
21-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
22-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
23-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
24-Nov-12		0.5	0.5	0.0		0.0	0.0	0.0
25-Nov-12		10.3	10.3	0.0		0.0	0.0	0.0
26-Nov-12		5.0	5.0	0.0		0.0	0.0	0.0
27-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
28-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
29-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0

30-Nov-12		0.0	0.0	0.0		0.0	0.0	0.0
01-Dec-12		0.0	0.0	0.0		0.0	0.0	0.0
02-Dec-12		0.0	0.0	0.0		0.0	0.0	0.0
03-Dec-12		0.0	0.0	0.0		0.0	0.0	0.0
04-Dec-12		0.0	0.0	0.0		0.0	0.0	0.0
05-Dec-12		0.0	0.0	0.0		0.0	0.0	0.0
06-Dec-12		0.0	0.0	0.0		0.0	0.0	0.0
07-Dec-12		0.0	0.0	0.0		0.0	0.0	0.0
08-Dec-12		0.0	0.0	0.0		0.0	0.0	0.0
09-Dec-12		0.0	0.0	0.0		0.0	0.0	0.0
10-Dec-12		1.8	1.8	0.0		0.0	0.0	0.0
11-Dec-12		4.9	4.9	0.0		0.0	0.0	0.0
12-Dec-12		9.2	9.2	0.0		0.0	0.0	0.0
13-Dec-12		3.8	3.8	0.0		5.4	0.0	5.4
14-Dec-12		7.4	7.4	0.0		12.1	0.0	12.1
15-Dec-12		7.7	7.7	0.0		8.2	0.0	8.2
16-Dec-12		4.8	4.8	0.0		8.0	0.0	8.0
17-Dec-12		4.2	4.2	0.0		8.0	0.0	8.0
18-Dec-12		3.8	3.8	0.0		8.0	0.0	8.0
19-Dec-12		0.6	0.6	0.0		12.1	0.0	12.1
20-Dec-12		5.2	5.0	0.2		8.8	0.0	8.8
21-Dec-12		4.0	3.1	0.9		8.0	0.0	8.0
22-Dec-12		4.8	3.9	0.9		11.1	0.0	11.1
23-Dec-12		2.8	2.3	0.5		7.7	0.0	7.7
24-Dec-12		2.8	2.6	0.2		7.8	0.0	7.8
25-Dec-12		3.2	2.9	0.3		11.4	0.0	11.4
26-Dec-12		4.8	4.4	0.4		4.2	0.0	4.2
27-Dec-12		3.2	2.9	0.3		4.3	0.0	4.3
28-Dec-12		1.6	1.3	0.3		2.3	0.0	2.3
29-Dec-12		3.2	3.0	0.2		2.9	0.0	2.9
30-Dec-12		4.8	4.5	0.3		2.3	0.0	2.3
31-Dec-12		3.2	2.9	0.3		4.8	0.0	4.8
01-Jan-13		2.4	2.2	0.2		0.0	0.0	0.0
02-Jan-13		3.2	3.0	0.2		6.3	5.6	0.7
03-Jan-13		3.2	2.9	0.3		3.0	1.3	1.7
04-Jan-13		1.6	0.3	1.3		1.6	1.3	0.3
05-Jan-13		1.6	0.3	1.3		3.2	2.5	0.7
06-Jan-13		4.8	2.9	1.9		4.0	3.3	0.7
07-Jan-13		2.4	0.8	1.6		4.8	3.8	1.0
08-Jan-13		3.2	1.6	1.6		3.2	2.6	0.6
09-Jan-13		2.5	2.0	0.5		4.0	3.2	0.8
10-Jan-13		2.8	1.2	1.6		4.0	2.9	1.1
11-Jan-13		2.0	0.6	1.4		1.6	1.6	0.0
12-Jan-13		4.0	2.2	1.8		2.4	1.9	0.5
13-Jan-13		1.6	0.2	1.4		2.4	1.5	0.9
14-Jan-13		2.4	0.9	1.5		4.0	2.6	1.4
15-Jan-13		3.2	1.4	1.8		2.4	1.4	1.0
16-Jan-13		2.4	0.8	1.6		3.2	1.9	1.3

17-Jan-13		2.1	0.2	1.9		1.6	0.6	1.0
18-Jan-13		2.0	0.3	1.7		2.4	1.2	1.2
19-Jan-13		4.0	2.1	1.9		4.0	2.3	1.7
20-Jan-13		1.6	0.3	1.3		1.6	0.5	1.1
21-Jan-13		2.4	0.8	1.6		2.4	1.8	0.6
22-Jan-13		4.0	0.5	3.5		0.8	0.5	0.3
23-Jan-13		1.8	0.4	1.4		4.8	3.5	1.3
24-Jan-13		1.4	1.4	0.0		4.6	3.2	1.4
25-Jan-13		2.1	2.1	0.0		1.6	1.1	0.5
26-Jan-13		5.2	5.2	0.0		4.0	2.9	1.1
27-Jan-13		2.0	2.0	0.0		3.2	2.4	0.8
28-Jan-13		3.3	2.3	1.0		1.6	1.1	0.5
29-Jan-13		2.4	0.9	1.5		3.2	2.3	0.9
30-Jan-13		3.2	2.3	0.9		3.2	2.3	0.9
31-Jan-13		2.4	1.7	0.7		4.0	2.9	1.1
01-Feb-13		2.4	0.3	2.1		2.4	0.8	1.6
02-Feb-13		1.6	1.1	0.5		2.4	0.7	1.7
03-Feb-13		4.8	3.5	1.3		3.2	1.1	2.1
04-Feb-13		2.4	1.7	0.7		1.6	0.8	0.8
05-Feb-13		3.2	2.3	0.9		2.4	0.9	1.5
06-Feb-13		3.2	2.2	1.0		4.0	0.8	3.2
07-Feb-13		2.4	1.7	0.7		3.2	0.7	2.5
08-Feb-13		3.2	2.3	0.9		1.6	0.6	1.0
09-Feb-13		2.4	1.7	0.7		3.2	1.9	1.3
10-Feb-13		3.2	2.3	0.9		3.2	2.4	0.8
11-Feb-13		3.2	2.3	0.9		0.8	0.3	0.5
12-Feb-13		3.2	2.3	0.9		2.4	1.8	0.6
13-Feb-13		2.4	1.7	0.7		0.8	0.5	0.3
14-Feb-13		2.4	1.7	0.7		0.0	0.0	0.0
15-Feb-13		3.2	2.3	0.9		0.0	0.0	0.0
16-Feb-13		2.8	2.0	0.8		1.6	0.9	0.7
17-Feb-13		0.6	0.4	0.2		8.8	5.4	3.4
18-Feb-13		3.2	2.0	1.2		3.2	2.0	1.2
19-Feb-13		3.2	2.5	0.7		1.2	0.4	0.8
20-Feb-13		4.8	3.6	1.2		1.6	1.0	0.6
21-Feb-13		8.0	6.2	1.8		0.7	0.3	0.4
22-Feb-13		0.0	0.0	0.0		1.2	0.8	0.4
23-Feb-13		0.0	0.0	0.0		2.1	1.2	0.9
24-Feb-13		2.4	1.8	0.6		2.8	1.9	0.9
25-Feb-13		1.6	1.3	0.3		1.9	0.5	1.4
26-Feb-13		3.2	2.4	0.8		0.8	0.4	0.4
27-Feb-13		4.0	3.1	0.9		2.4	0.5	1.9
28-Feb-13		4.8	3.7	1.1		2.4	0.8	1.6
01-Mar-13		4.0	0.2	3.8		4.0	2.7	1.3
02-Mar-13		1.2	0.8	0.4		3.2	2.4	0.8
03-Mar-13		1.2	0.2	1.0		4.0	2.8	1.2
04-Mar-13		0.8	0.3	0.5		2.4	2.1	0.3
05-Mar-13		0.6	0.2	0.4		4.0	3.1	0.9

06-Mar-13		3.2	1.1	2.1		2.4	2.3	0.1
07-Mar-13		3.2	1.3	1.9		2.4	2.0	0.4
08-Mar-13		3.2	0.6	2.6		2.4	2.1	0.3
09-Mar-13		0.3	0.1	0.2		3.2	2.6	0.6
10-Mar-13		3.2	1.0	2.2		3.2	2.5	0.7
11-Mar-13		3.2	0.8	2.4		3.2	2.6	0.6
12-Mar-13		3.2	1.1	2.1		3.2	2.6	0.6
13-Mar-13		0.7	0.2	0.5		0.3	0.2	0.1
14-Mar-13		1.6	0.7	0.9		2.4	2.1	0.3
15-Mar-13		3.2	1.4	1.8		3.2	2.5	0.7
16-Mar-13		2.4	1.1	1.3		2.4	2.1	0.3
17-Mar-13		3.2	1.2	2.0		1.6	1.5	0.1
18-Mar-13		2.4	1.0	1.4		2.4	2.1	0.3
19-Mar-13		2.4	0.9	1.5		0.8	0.5	0.3
20-Mar-13		2.4	1.3	1.1		0.8	0.5	0.3
21-Mar-13		0.0	0.0	0.0		3.2	2.6	0.6
22-Mar-13		0.0	0.0	0.0		4.8	3.6	1.2
23-Mar-13		0.3	0.3	0.0		4.2	0.0	4.2
24-Mar-13		2.0	2.0	0.0		3.2	2.6	0.6
25-Mar-13		6.3	3.7	2.6		2.4	2.0	0.4
26-Mar-13		6.4	2.3	4.1		1.0	0.7	0.3
27-Mar-13		4.0	1.7	2.3		2.4	2.0	0.4
28-Mar-13		6.4	1.9	4.5		2.4	2.3	0.1
29-Mar-13		3.2	0.8	2.4		1.6	1.0	0.6
30-Mar-13		3.2	0.8	2.4		3.2	2.9	0.3
31-Mar-13		2.4	0.3	2.1		4.0	3.5	0.5
01-Apr-13		1.4	1.0	0.4		3.2	3.0	0.2
02-Apr-13		2.0	1.4	0.6		0.8	0.6	0.2
03-Apr-13		4.0	2.0	2.0		1.6	1.4	0.2
04-Apr-13		0.4	0.3	0.1		2.4	1.6	0.8
05-Apr-13		0.0	0.0	0.0		2.4	1.7	0.7
06-Apr-13		0.0	0.0	0.0		3.2	2.2	1.0
07-Apr-13		0.0	0.0	0.0		2.4	1.7	0.7
08-Apr-13		0.0	0.0	0.0		3.3	2.2	1.1
09-Apr-13		0.0	0.0	0.0		2.8	1.8	1.0
10-Apr-13		0.0	0.0	0.0		2.8	1.8	1.0
11-Apr-13		0.0	0.0	0.0		2.8	1.7	1.1
12-Apr-13		0.0	0.0	0.0		0.8	0.7	0.1
13-Apr-13		0.0	0.0	0.0		0.8	0.6	0.2
14-Apr-13		0.0	0.0	0.0		1.6	1.3	0.3
15-Apr-13		0.0	0.0	0.0		1.6	1.2	0.4
16-Apr-13		0.0	0.0	0.0		4.8	3.8	1.0
17-Apr-13		0.0	0.0	0.0		5.6	4.4	1.2
18-Apr-13		0.0	0.0	0.0		2.8	2.2	0.6
19-Apr-13		0.0	0.0	0.0		3.2	2.6	0.6
20-Apr-13		0.0	0.0	0.0		4.0	3.1	0.9
21-Apr-13		0.0	0.0	0.0		2.4	1.9	0.5
22-Apr-13		0.0	0.0	0.0		2.4	1.9	0.5

23-Apr-13		0.0	0.0	0.0		0.4	0.3	0.1
24-Apr-13		0.0	0.0	0.0		0.0	0.0	0.0
25-Apr-13		0.0	0.0	0.0		0.0	0.0	0.0
26-Apr-13		0.0	0.0	0.0		2.4	1.9	0.5
27-Apr-13		0.0	0.0	0.0		4.0	2.5	1.5
28-Apr-13		0.0	0.0	0.0		0.8	0.6	0.2
29-Apr-13		0.0	0.0	0.0		1.6	1.3	0.3
30-Apr-13		0.0	0.0	0.0		4.8	2.4	2.4
01-May-13		0.0	0.0	0.0		4.8	3.7	1.1
02-May-13		0.0	0.0	0.0		0.8	0.6	0.2
03-May-13		0.0	0.0	0.0		1.6	1.2	0.4
04-May-13		0.0	0.0	0.0		2.4	1.9	0.5
05-May-13		0.0	0.0	0.0		1.6	1.2	0.4
06-May-13		0.0	0.0	0.0		2.4	1.9	0.5
07-May-13		0.0	0.0	0.0		4.8	3.7	1.1
08-May-13		0.0	0.0	0.0		2.4	1.8	0.6
09-May-13		0.0	0.0	0.0		4.0	3.1	0.9
10-May-13		0.0	0.0	0.0		0.8	0.7	0.1
11-May-13		0.0	0.0	0.0		0.8	0.6	0.2
12-May-13		0.0	0.0	0.0		0.0	0.0	0.0
13-May-13		0.0	0.0	0.0		0.8	0.6	0.2
14-May-13		0.0	0.0	0.0		0.8	0.6	0.2
15-May-13		0.0	0.0	0.0		1.6	0.9	0.7
16-May-13		0.0	0.0	0.0		1.6	0.8	0.8
17-May-13		0.0	0.0	0.0		4.0	2.3	1.7
18-May-13		0.0	0.0	0.0		2.0	1.0	1.0
19-May-13		0.0	0.0	0.0		2.0	1.6	0.4
20-May-13		0.0	0.0	0.0		0.4	0.0	0.4
21-May-13		0.0	0.0	0.0		0.0	0.0	0.0
22-May-13		0.0	0.0	0.0		0.0	0.0	0.0
23-May-13		0.0	0.0	0.0		0.8	0.7	0.1
24-May-13		0.0	0.0	0.0		1.6	1.3	0.3
25-May-13		0.0	0.0	0.0		1.6	0.9	0.7
26-May-13		0.0	0.0	0.0		1.6	1.3	0.3
27-May-13		0.0	0.0	0.0		1.6	1.3	0.3
28-May-13		0.0	0.0	0.0		0.8	0.6	0.2
29-May-13		0.0	0.0	0.0		1.6	1.3	0.3
30-May-13		0.0	0.0	0.0		0.8	0.7	0.1
31-May-13		0.0	0.0	0.0		0.8	0.3	0.5
01-Jun-13		0.0	0.0	0.0		1.6	1.3	0.3
02-Jun-13		0.0	0.0	0.0		2.4	1.9	0.5
03-Jun-13		0.0	0.0	0.0		1.6	1.3	0.3
04-Jun-13		0.0	0.0	0.0		3.2	1.9	1.3
05-Jun-13		0.0	0.0	0.0		3.2	2.6	0.6
06-Jun-13		0.0	0.0	0.0		0.8	0.3	0.5
07-Jun-13		0.0	0.0	0.0		3.2	2.6	0.6
08-Jun-13		0.0	0.0	0.0		1.6	1.3	0.3
09-Jun-13		0.0	0.0	0.0		0.8	0.6	0.2

10-Jun-13		0.0	0.0	0.0		2.4	1.3	1.1
11-Jun-13		0.0	0.0	0.0		0.8	0.3	0.5
12-Jun-13		0.0	0.0	0.0		4.8	2.4	2.4
13-Jun-13		0.0	0.0	0.0		1.6	0.9	0.7
14-Jun-13		0.0	0.0	0.0		2.0	1.2	0.8
15-Jun-13		0.0	0.0	0.0		1.2	1.0	0.2
16-Jun-13		0.0	0.0	0.0		1.6	1.4	0.2
17-Jun-13		0.0	0.0	0.0		1.2	1.0	0.2
18-Jun-13		0.0	0.0	0.0		0.4	0.4	0.0
19-Jun-13		0.0	0.0	0.0		1.3	0.5	0.8
20-Jun-13		0.0	0.0	0.0		1.7	0.7	1.0
21-Jun-13		0.0	0.0	0.0		0.4	0.3	0.1
22-Jun-13		0.0	0.0	0.0		1.2	0.8	0.4
23-Jun-13		0.0	0.0	0.0		0.8	0.7	0.1
24-Jun-13		0.0	0.0	0.0		2.0	1.2	0.8
25-Jun-13		0.0	0.0	0.0		1.8	1.0	0.8
26-Jun-13		0.0	0.0	0.0		0.8	0.6	0.2
27-Jun-13		0.0	0.0	0.0		1.2	1.0	0.2
28-Jun-13		0.0	0.0	0.0		0.5	0.3	0.2
29-Jun-13		0.0	0.0	0.0		0.4	0.3	0.1
30-Jun-13		0.0	0.0	0.0		0.4	0.4	0.0
01-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
02-Jul-13		0.0	0.0	0.0		0.4	0.3	0.1
03-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
04-Jul-13		0.0	0.0	0.0		0.4	0.2	0.2
05-Jul-13		0.0	0.0	0.0		0.4	0.4	0.0
06-Jul-13		0.0	0.0	0.0		0.8	0.5	0.3
07-Jul-13		0.0	0.0	0.0		0.8	0.5	0.3
08-Jul-13		0.0	0.0	0.0		0.4	0.2	0.2
09-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
10-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
11-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
12-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
13-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
14-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
15-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
16-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
17-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
18-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
19-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
20-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
21-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
22-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
23-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
24-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
25-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
26-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
27-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0

28-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
29-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
30-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
31-Jul-13		0.0	0.0	0.0		0.0	0.0	0.0
01-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
02-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
03-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
04-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
05-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
06-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
07-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
08-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
09-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
10-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
11-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
12-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
13-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
14-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
15-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
16-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
17-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
18-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
19-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
20-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
21-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
22-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
23-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
24-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
25-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
26-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
27-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
28-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
29-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
30-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
31-Aug-13		0.0	0.0	0.0		0.0	0.0	0.0
01-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
02-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
03-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
04-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
05-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
06-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
07-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
08-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
09-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
10-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
11-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
12-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
13-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0

14-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
15-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
16-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
17-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
18-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
19-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
20-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
21-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
22-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
23-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
24-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
25-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
26-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
27-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
28-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
29-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
30-Sep-13		0.0	0.0	0.0		0.0	0.0	0.0
01-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
02-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
03-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
04-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
05-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
06-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
07-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
08-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
09-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
10-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
11-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
12-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
13-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
14-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
15-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
16-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
17-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
18-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
19-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
20-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
21-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
22-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
23-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
24-Oct-13		0.0	0.0	0.0		1.8	0.0	1.8
25-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
26-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
27-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
28-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
29-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
30-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0
31-Oct-13		0.0	0.0	0.0		0.0	0.0	0.0

01-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
02-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
03-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
04-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
05-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
06-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
07-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
08-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
09-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
10-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
11-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
12-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
13-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
14-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
15-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
16-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
17-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
18-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
19-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
20-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
21-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
22-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
23-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
24-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
25-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
26-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
27-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
28-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
29-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
30-Nov-13		0.0	0.0	0.0		0.0	0.0	0.0
01-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
02-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
03-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
04-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
05-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
06-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
07-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
08-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
09-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
10-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
11-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
12-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
13-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
14-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
15-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
16-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
17-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
18-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0

19-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
20-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
21-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
22-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
23-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
24-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
25-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
26-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
27-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
28-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
29-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
30-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
31-Dec-13		0.0	0.0	0.0		0.0	0.0	0.0
01-Jan-14	15.0	0.0	0.0	0.0		0.0	0.0	0.0
02-Jan-14	25.0	0.0	0.0	0.0		0.0	0.0	0.0
03-Jan-14	25.0	0.0	0.0	0.0		0.0	0.0	0.0
04-Jan-14	0.0	0.0	0.0	0.0		0.0	0.0	0.0
05-Jan-14	0.0	0.0	0.0	0.0		0.0	0.0	0.0
06-Jan-14	20.0	0.0	0.0	0.0		0.0	0.0	0.0
07-Jan-14	24.0	0.0	0.0	0.0		0.0	0.0	0.0
08-Jan-14	24.0	0.0	0.0	0.0		0.0	0.0	0.0
09-Jan-14	24.0	0.0	0.0	0.0		0.0	0.0	0.0
10-Jan-14	25.0	0.0	0.0	0.0		0.0	0.0	0.0
11-Jan-14	25.0	0.0	0.0	0.0		0.0	0.0	0.0
12-Jan-14	10.0	0.0	0.0	0.0		0.0	0.0	0.0
13-Jan-14	16.0	0.0	0.0	0.0		0.0	0.0	0.0
14-Jan-14	24.0	0.0	0.0	0.0		0.0	0.0	0.0
15-Jan-14	24.0	0.0	0.0	0.0		0.0	0.0	0.0
16-Jan-14	25.0	0.0	0.0	0.0		0.0	0.0	0.0
17-Jan-14	26.0	0.0	0.0	0.0		0.0	0.0	0.0
18-Jan-14	25.0	0.0	0.0	0.0		0.0	0.0	0.0
19-Jan-14	30.0	0.0	0.0	0.0		0.0	0.0	0.0
20-Jan-14	30.0	0.0	0.0	0.0		0.0	0.0	0.0
21-Jan-14	30.0	0.0	0.0	0.0		0.0	0.0	0.0
22-Jan-14	18.0	0.0	0.0	0.0		0.0	0.0	0.0
23-Jan-14	30.0	0.0	0.0	0.0		0.0	0.0	0.0
24-Jan-14	19.0	0.2	0.2	0.0		0.0	0.0	0.0
25-Jan-14	32.0	0.0	0.0	0.0		0.0	0.0	0.0
26-Jan-14	17.0	1.4	1.4	0.0		0.0	0.0	0.0
27-Jan-14	34.0	0.0	0.0	0.0		0.0	0.0	0.0
28-Jan-14	34.0	0.0	0.0	0.0		0.0	0.0	0.0
29-Jan-14	46.5	14.8	14.8	0.0		0.0	0.0	0.0
30-Jan-14	42.0	9.1	9.1	0.0		0.0	0.0	0.0
31-Jan-14	40.5	0.0	0.0	0.0		0.0	0.0	0.0
01-Feb-14	65.1	0.0	0.0	0.0		0.0	0.0	0.0
02-Feb-14	57.0	0.0	0.0	0.0		0.0	0.0	0.0
03-Feb-14	28.0	0.0	0.0	0.0		0.0	0.0	0.0
04-Feb-14	0.0	0.0	0.0	0.0		0.0	0.0	0.0

05-Feb-14	42.0	0.0	0.0	0.0		0.0	0.0	0.0
06-Feb-14	0.0	0.0	0.0	0.0		0.0	0.0	0.0
07-Feb-14	0.0	0.0	0.0	0.0		0.0	0.0	0.0
08-Feb-14	27.3	0.0	0.0	0.0		0.0	0.0	0.0
09-Feb-14	100.0	0.0	0.0	0.0		0.0	0.0	0.0
10-Feb-14	70.0	0.0	0.0	0.0		0.0	0.0	0.0
11-Feb-14	91.0	0.0	0.0	0.0		0.0	0.0	0.0
12-Feb-14	93.0	0.0	0.0	0.0		0.0	0.0	0.0
13-Feb-14	105.0	0.0	0.0	0.0		0.0	0.0	0.0
14-Feb-14	80.0	0.0	0.0	0.0		0.0	0.0	0.0
15-Feb-14	113.0	0.0	0.0	0.0		0.0	0.0	0.0
16-Feb-14	112.0	0.0	0.0	0.0		0.0	0.0	0.0
17-Feb-14	80.0	0.0	0.0	0.0	60.0	0.0	0.0	0.0
18-Feb-14	60.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0
19-Feb-14	60.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0
20-Feb-14	60.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0
21-Feb-14	60.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0
22-Feb-14	60.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0
23-Feb-14	60.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0
24-Feb-14	60.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0
25-Feb-14	60.0	0.0	0.0	0.0	29.0	0.0	0.0	0.0
26-Feb-14	54.0	0.0	0.0	0.0	29.0	0.0	0.0	0.0
27-Feb-14	52.0	0.0	0.0	0.0	29.0	0.0	0.0	0.0
28-Feb-14	45.0	0.0	0.0	0.0	31.0	0.0	0.0	0.0
01-Mar-14	44.0	0.0	0.0	0.0	31.0	0.0	0.0	0.0
02-Mar-14	40.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0
03-Mar-14	41.0	0.0	0.0	0.0	32.0	0.0	0.0	0.0
04-Mar-14	35.0	0.0	0.0	0.0	32.0	0.0	0.0	0.0
05-Mar-14	37.0	0.0	0.0	0.0	32.0	0.0	0.0	0.0
06-Mar-14	37.0	0.0	0.0	0.0	31.0	0.0	0.0	0.0
07-Mar-14	37.0	0.0	0.0	0.0	31.0	0.0	0.0	0.0
08-Mar-14	36.0	0.0	0.0	0.0	32.0	0.0	0.0	0.0
09-Mar-14	35.0	0.0	0.0	0.0	32.0	0.0	0.0	0.0
10-Mar-14	34.0	0.0	0.0	0.0	32.0	0.0	0.0	0.0
11-Mar-14	39.0	0.0	0.0	0.0	35.0	0.0	0.0	0.0
12-Mar-14	35.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0
13-Mar-14	25.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0
14-Mar-14	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Mar-14	40.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0
16-Mar-14	40.0	0.0	0.0	0.0	42.0	0.0	0.0	0.0
17-Mar-14	40.0	0.0	0.0	0.0	44.0	0.0	0.0	0.0
18-Mar-14	40.0	0.0	0.0	0.0	45.0	0.0	0.0	0.0
19-Mar-14	40.0	0.0	0.0	0.0	47.0	0.0	0.0	0.0
20-Mar-14	40.0	0.0	0.0	0.0	47.0	0.0	0.0	0.0
21-Mar-14	15.0	0.0	0.0	0.0	58.0	0.0	0.0	0.0
22-Mar-14	0.0	0.0	0.0	0.0	60.0	0.0	0.0	0.0
23-Mar-14	20.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
24-Mar-14	20.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0

25-Mar-14	20.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
26-Mar-14	20.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
27-Mar-14	18.0	0.0	0.0	0.0	56.0	0.0	0.0	0.0
28-Mar-14	20.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
29-Mar-14	20.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
30-Mar-14	15.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0
31-Mar-14	15.0	0.0	0.0	0.0	45.0	0.0	0.0	0.0
01-Apr-14	30.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0
02-Apr-14	30.0	0.0	0.0	0.0	55.0	0.0	0.0	0.0
03-Apr-14	30.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
04-Apr-14	30.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
05-Apr-14	30.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0
06-Apr-14	30.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
07-Apr-14	25.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
08-Apr-14	15.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0
09-Apr-14	15.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
10-Apr-14	10.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0
11-Apr-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-Apr-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Apr-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Apr-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Apr-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Apr-14	20.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0
17-Apr-14	25.0	0.0	0.0	0.0	59.0	0.0	0.0	0.0
18-Apr-14	40.0	0.0	0.0	0.0	57.0	0.0	0.0	0.0
19-Apr-14	40.0	0.0	0.0	0.0	55.0	0.0	0.0	0.0
20-Apr-14	40.0	0.0	0.0	0.0	57.0	0.0	0.0	0.0
21-Apr-14	40.0	0.0	0.0	0.0	56.0	0.0	0.0	0.0
22-Apr-14	45.0	0.0	0.0	0.0	56.0	0.0	0.0	0.0
23-Apr-14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-Apr-14	0.0	0.0	0.0	0.0	58.0	0.0	0.0	0.0
25-Apr-14	55.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
26-Apr-14	54.0	0.0	0.0	0.0	49.0	0.0	0.0	0.0
27-Apr-14	53.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0
28-Apr-14	55.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0
29-Apr-14	58.0	0.0	0.0	0.0	36.0	0.0	0.0	0.0
30-Apr-14	64.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0
01-May-14	56.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
02-May-14	53.0	0.0	0.0	0.0	54.0	0.0	0.0	0.0
03-May-14	55.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0
04-May-14	53.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
05-May-14	54.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
06-May-14	53.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0
07-May-14	60.0	0.0	0.0	0.0	48.0	0.0	0.0	0.0
08-May-14	20.0	0.0	0.0	0.0	48.0	0.0	0.0	0.0
09-May-14	51.0	0.0	0.0	0.0	42.0	0.0	0.0	0.0
10-May-14	61.0	0.0	0.0	0.0	58.0	0.0	0.0	0.0
11-May-14	57.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0

12-May-14	55.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0
13-May-14	55.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
14-May-14	41.0	0.0	0.0	0.0	38.0	0.0	0.0	0.0
15-May-14	49.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
16-May-14	50.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0
17-May-14	51.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
18-May-14	51.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0
19-May-14	50.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0
20-May-14	51.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0
21-May-14	49.0	0.0	0.0	0.0	49.0	0.0	0.0	0.0
22-May-14	50.0	0.0	0.0	0.0	48.0	0.0	0.0	0.0
23-May-14	52.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0
24-May-14	51.0	0.0	0.0	0.0	53.0	0.0	0.0	0.0
25-May-14	52.0	0.0	0.0	0.0	49.0	0.0	0.0	0.0
26-May-14	47.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0
27-May-14	54.0	0.0	0.0	0.0	52.0	0.0	0.0	0.0
28-May-14	54.0	0.0	0.0	0.0	49.0	0.0	0.0	0.0
29-May-14	56.0	0.0	0.0	0.0	49.0	0.0	0.0	0.0
30-May-14	57.0	0.0	0.0	0.0	48.0	0.0	0.0	0.0
31-May-14	15.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0
01-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
02-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
03-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
04-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
05-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
06-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
07-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
08-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
09-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
10-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
11-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
12-Jun-14		0.0	0.0	0.0		0.0	0.0	0.0
13-Jun-14		12.1	0.0	12.1		0.0	0.0	0.0
14-Jun-14		48.2	0.0	48.2		0.0	0.0	0.0
15-Jun-14		68.3	0.0	68.3		44.2	0.0	44.2
16-Jun-14		68.1	0.0	68.1		48.2	0.0	48.2
17-Jun-14		65.9	0.0	65.9		40.2	0.0	40.2
18-Jun-14		62.1	0.0	62.1		47.8	0.0	47.8
19-Jun-14		32.1	0.0	32.1		55.9	0.0	55.9
20-Jun-14		57.3	0.0	57.3		28.1	0.0	28.1
21-Jun-14		0.0	0.0	0.0		5.8	0.0	5.8
22-Jun-14		0.0	0.0	0.0		8.0	0.0	8.0
23-Jun-14		0.0	0.0	0.0		60.1	0.0	60.1
24-Jun-14		0.0	0.0	0.0		16.1	0.0	16.1
25-Jun-14		23.9	0.0	23.9		16.1	0.0	16.1
26-Jun-14		55.2	0.0	55.2		55.7	5.6	50.1
27-Jun-14		54.0	0.0	54.0		67.6	5.7	61.9
28-Jun-14		52.5	2.3	50.2		67.4	15.4	52.0

29-Jun-14		56.0	2.2	53.8		67.3	15.5	51.8
30-Jun-14		56.6	12.4	44.2		67.2	11.2	56.0
01-Jul-14		48.0	11.2	36.8		43.7	17.6	26.1
02-Jul-14		41.0	11.3	29.7		38.6	15.7	22.9
03-Jul-14		47.0	14.0	33.0		24.1	12.6	11.5
04-Jul-14		32.1	14.1	18.0		28.1	2.9	25.2
05-Jul-14		40.2	11.2	29.0		34.3	1.9	32.4
06-Jul-14		24.9	9.9	15.0		11.9	2.2	9.7
07-Jul-14		30.6	10.8	19.8		24.1	5.6	18.5
08-Jul-14		16.1	11.2	4.9		16.9	6.8	10.1
09-Jul-14		3.8	3.5	0.3		19.9	8.4	11.5
10-Jul-14		12.1	4.8	7.3		20.9	9.3	11.6
11-Jul-14		20.1	9.1	11.0		8.0	7.1	0.9
12-Jul-14		21.2	16.5	4.7		8.0	2.8	5.2
13-Jul-14		14.7	9.8	4.9		7.6	2.5	5.1
14-Jul-14		22.1	8.7	13.4		8.0	2.8	5.2
15-Jul-14		31.0	5.4	25.6		4.3	1.1	3.2
16-Jul-14		22.1	5.8	16.3		0.0	0.0	0.0
17-Jul-14		18.1	3.9	14.2		2.1	0.6	1.5
18-Jul-14		18.0	4.8	13.2		42.1	0.0	42.1
19-Jul-14		18.1	1.5	16.6		51.9	0.1	51.8
20-Jul-14		20.8	6.7	14.1		52.2	0.0	52.2
21-Jul-14		18.1	1.7	16.4		44.2	0.2	44.0
22-Jul-14		14.1	2.0	12.1		47.1	0.0	47.1
23-Jul-14		13.2	0.9	12.3		47.9	0.3	47.6
24-Jul-14		8.0	2.0	6.0		18.1	0.5	17.6
25-Jul-14		6.0	2.3	3.7		0.8	0.3	0.5
26-Jul-14		12.9	3.9	9.0		0.8	0.3	0.5
27-Jul-14		12.5	6.8	5.7		2.0	1.0	1.0
28-Jul-14		4.0	4.0	0.0		0.0	0.0	0.0
29-Jul-14		15.9	3.9	12.0		4.3	0.8	3.5
30-Jul-14		14.1	7.2	6.9		8.0	1.4	6.6
31-Jul-14		6.6	2.8	3.8		34.2	4.2	30.0
01-Aug-14		14.1	3.6	10.5		38.2	5.7	32.5
02-Aug-14		14.9	3.1	11.8		39.8	5.6	34.2
03-Aug-14		14.0	4.3	9.7		44.6	7.2	37.4
04-Aug-14		14.9	3.8	11.1		40.2	5.4	34.8
05-Aug-14		15.0	3.4	11.6		15.4	6.2	9.2
06-Aug-14		15.9	3.4	12.5		24.1	2.0	22.1
07-Aug-14		15.9	3.4	12.5		23.9	1.8	22.1
08-Aug-14		14.5	3.1	11.4		24.1	2.0	22.1
09-Aug-14		14.5	3.4	11.1		24.1	2.1	22.0
10-Aug-14		11.3	2.7	8.6		20.1	2.3	17.8
11-Aug-14		8.0	2.8	5.2		44.2	2.1	42.1
12-Aug-14		16.1	1.7	14.4		40.0	2.0	38.0
13-Aug-14		12.1	1.7	10.4		48.2	2.1	46.1
14-Aug-14		12.1	1.7	10.4		43.8	2.0	41.8
15-Aug-14		8.0	1.7	6.3		39.8	2.1	37.7

16-Aug-14		11.9	2.7	9.2		48.0	2.0	46.0
17-Aug-14		12.1	3.8	8.3		48.0	2.1	45.9
18-Aug-14		11.0	2.4	8.6		8.9	2.4	6.5
19-Aug-14		7.9	4.8	3.1		0.3	0.3	0.0
20-Aug-14		12.1	5.1	7.0		31.7	2.8	28.9
21-Aug-14		13.9	5.1	8.8		42.2	2.3	39.9
22-Aug-14		13.2	6.2	7.0		41.2	3.7	37.5
23-Aug-14		12.9	5.5	7.4		41.6	3.8	37.8
24-Aug-14		3.2	1.0	2.2		47.9	3.7	44.2
25-Aug-14		2.4	1.1	1.3		40.2	3.8	36.4
26-Aug-14		6.4	1.0	5.4		44.0	14.7	29.3
27-Aug-14		8.0	1.3	6.7		42.3	16.7	25.6
28-Aug-14		8.0	1.1	6.9		40.0	5.1	34.9
29-Aug-14		6.4	1.0	5.4		20.1	4.5	15.6
30-Aug-14		8.0	1.7	6.3		28.1	4.9	23.2
31-Aug-14		8.0	2.4	5.6		39.8	4.8	35.0
01-Sep-14		8.0	5.4	2.6		4.4	1.9	2.5
02-Sep-14		7.0	5.2	1.8		28.1	10.3	17.8
03-Sep-14		4.0	3.3	0.7		42.1	9.4	32.7
04-Sep-14		6.0	4.5	1.5		42.2	10.0	32.2
05-Sep-14		3.1	2.3	0.8		42.8	8.9	33.9
06-Sep-14		8.0	6.9	1.1		40.2	7.5	32.7
07-Sep-14		8.0	6.8	1.2		42.2	8.5	33.7
08-Sep-14		10.4	7.6	2.8		42.0	8.6	33.4
09-Sep-14		10.1	8.6	1.5		42.1	8.5	33.6
10-Sep-14		10.0	8.5	1.5		42.2	8.6	33.6
11-Sep-14		9.9	8.6	1.3		42.3	8.5	33.8
12-Sep-14		8.0	6.8	1.2		41.4	8.5	32.9
13-Sep-14		8.1	5.1	3.0		37.2	8.2	29.0
14-Sep-14		4.0	3.4	0.6		36.7	8.5	28.2
15-Sep-14		7.4	3.4	4.0		34.2	8.6	25.6
16-Sep-14		4.0	3.5	0.5		40.2	8.6	31.6
17-Sep-14		5.0	3.4	1.6		40.0	8.5	31.5
18-Sep-14		6.6	2.3	4.3		38.3	8.6	29.7
19-Sep-14		4.0	1.7	2.3		33.5	8.5	25.0
20-Sep-14		4.0	0.0	4.0		40.1	8.2	31.9
21-Sep-14		0.0	0.0	0.0		36.0	8.2	27.8
22-Sep-14		0.0	0.0	0.0		36.0	8.2	27.8
23-Sep-14		0.0	0.0	0.0		16.1	8.5	7.6
24-Sep-14		9.4	4.4	5.0		30.0	8.6	21.4
25-Sep-14		18.7	1.4	17.3		36.3	6.1	30.2
26-Sep-14		6.2	0.0	6.2		0.6	0.0	0.6
27-Sep-14		0.0	0.0	0.0		0.0	0.0	0.0
28-Sep-14		0.0	0.0	0.0		0.0	0.0	0.0
29-Sep-14		0.0	0.0	0.0		0.0	0.0	0.0
30-Sep-14		0.0	0.0	0.0		0.0	0.0	0.0
01-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
02-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0

03-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
04-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
05-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
06-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
07-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
08-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
09-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
10-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
11-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
12-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
13-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
14-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
15-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
16-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
17-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
18-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
19-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
20-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
21-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
22-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
23-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
24-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
25-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
26-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
27-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
28-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
29-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
30-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0
31-Oct-14		0.0	0.0	0.0		0.0	0.0	0.0

Surf.Location: 12-20-081-15W5 **UWI - 105/04-20-081-15W5** PA Code: ABBT0123690 (Sep 25, 2012)

Formation: Bluesky

Perforation: 699mTVD, 904.5-1347.8m, FacsRite, 150nm / 6 thou

Pump/Tubing: 30-250 RWAF-20-3 set at 786.9m /114.3mm OD VIT to 776.9m (07-Jun-2014)

Drivehead: Weatherford VSH150 (wellhead mounted drive for sucker-rod systems)

[1]	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinerator from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Recovery	Unrecovered	Production		Recovery	Unrecovered	Production	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3							
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8			0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
01-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0																
02-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-Sep-12	**0.0**	Suspended																						0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Sep-12	**3.0**	Surface Equipment	Well Startup																					0.0			0.0	0.0		**0.0**	0.0	0.0						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-Sep-12	**11.0**	Surface Equipment	Ran well for day. Shut down for thermowell install on tank																			**0.90**	36.0	**0.85**		1.8	34.2			**36.0**	1.8	34.2						0.0	0.0	1.8	1.8	0.0	0.0	34.2	34.2
27-Sep-12	**7.0**	Power Failure	trouble with Pump VFD/brought in 20m3 fresh water to test low level float on tank						0	0								*100.0 /0/ 0.0*				**1.69**	68.0	**1.62**		2.8	65.2		-20.0	**12.0**	1.0	11.0						0.0	0.0	1.0	2.8	0.0	0.0	11.0	45.2
28-Sep-12	**0.0**	Power Failure	trouble with Pump VFD						0	0												**1.99**	80.0	**1.91**		3.3	76.7			**12.0**	0.5	11.5						0.0	0.0	0.5	3.3	0.0	0.0	11.5	56.7
29-Sep-12	**0.0**	Power Failure	trouble with Pump VFD						0	0												**1.99**	80.0	**1.91**		3.3	76.7			**0.0**	0.0	0.0						0.0	0.0	0.0	3.3	0.0	0.0	0.0	56.7
30-Sep-12	**4.0**	Power Failure	troubleshooting VFD						0	0												**1.99**	80.0	**1.91**		3.3	76.7			**0.0**	0.0	0.0						0.0	0.0	0.0	3.3	0.0	0.0	0.0	56.7
01-Oct-12	**11.0**	Power Failure	Pump backonline						0	0					650			*100.0 /0/ 0.0*				**2.09**	84.0	**2.00**		3.5	80.5			**4.0**	0.2	3.8						0.0	0.0	0.2	3.5	0.0	0.0	3.8	60.5
02-Oct-12	**24.0**		running good						0	0					517			*100.0 /0/ 0.0*				**2.49**	100.0	**2.38**		4.2	95.8			**16.0**	0.7	15.3						0.0	0.0	0.7	4.2	0.0	0.0	15.3	75.8
03-Oct-12	**24.0**		running good. Starting to make oil. Cut is an estimate						200	0					583			*80.0 /0/ 0.0*			*51*	**2.99**	120.0	**2.80**	*30.0*	5.1	114.9			**20.0**	0.9	19.1						0.0	0.0	0.9	5.1	0.0	0.0	19.1	94.9
04-Oct-12	**24.0**		running good						550	0					109			*80.0 /0/ 0.0*			*61*	**3.09**	124.0	**2.87**	*30.0*	6.2	117.8			**4.0**	1.1	2.9						0.0	0.0	1.1	6.2	0.0	0.0	2.9	97.8
05-Oct-12	**24.0**		running good						600	0					210			*50.0 /0/ 0.0*			*66*	**3.19**	128.0	**2.90**	*30.0*	8.1	119.9			**4.0**	1.9	2.1						0.0	0.0	1.9	8.1	0.0	0.0	2.1	99.9
06-Oct-12	**16.5**	Power Failure	trip on VFD short.						700	0					113			*50.0 /0/ 0.0*			*73*	**3.28**	132.0	**2.93**	*30.0*	10.1	121.9			**4.0**	2.0	2.0						0.0	0.0	2.0	10.1	0.0	0.0	2.0	101.9
07-Oct-12	**4.0**	Power Failure	Restarted pump.						0	0					109			*80.0 /0/ 0.0*			*69*	**3.28**	132.0	**2.93**	*30.0*	10.1	121.9			**0.0**	0.0	0.0						0.0	0.0	0.0	10.1	0.0	0.0	0.0	101.9
08-Oct-12	**21.2**	Power Failure	running good.						200	0					198			*50.0 /0/ 0.0*			*76*	**3.48**	140.0	**2.99**	*30.0*	14.0	126.0			**8.0**	3.9	4.1						0.0	0.0	3.9	14.0	0.0	0.0	4.1	106.0
09-Oct-12	**0.0**	Power Failure	Ran out of Propane for Generator. Superior was unable to deliver.						0	0					210			*0.0 /0/ 0.0*			*74*	**3.48**	140.0	**2.99**	*30.0*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
10-Oct-12	**0.0**	SD on High Torque	Propane delivered. Tried to restart but pump keeps going down on high torque. Gauges at surface frozen. Let sit overnight to thaw with heat trace. Try again in morning.						0	0					203			*0.0 /0/ 0.0*			*73*	**3.48**	140.0	**2.99**	*30.0*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
11-Oct-12	**0.0**	SD on High Torque	awaiting flushby						0	0					214			*0.0 /0/ 0.0*			*76*	**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
12-Oct-12	**0.0**	SD on High Torque	awaiting flushby						0	0					198			*0.0 /0/ 0.0*			*74*	**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
13-Oct-12	**6.0**	SD on High Torque	Flushed well and restarted						0	0					375						*74*	**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
14-Oct-12	**24.0**		Flushby unit rigged off. Shut down for 10 minutes to pull pony rod off of well. Torque went to 1100 on startup.						350	0					402.7			*10.0 /0/ 0.0*			*75*	**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
15-Oct-12	**24.0**		Running good. No fluid gas at sample point.						0	0					380.8			*0.0 /0/ 0.0*			*75*	**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
16-Oct-12	**24.0**		Pump doesn't seem to be pumping fluid. Tried increasing speed with no change. Still reading responsive torque readings.						0	0					390.8			*0.0 /0/ 0.0*			*75*	**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
17-Oct-12	**24.0**								0	0					422			*0.0 /0/ 0.0*			*74*	**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
18-Oct-12	**24.0**		Increased RPM to 100						0	0					338.9			*0.0 /0/ 0.0*			*75*	**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
19-Oct-12	**10.0**	Shut in	Shutdown well pump. Waiting on Service Rig						0	0					236.2			*0.0 /0/ 0.0*			*74*	**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
20-Oct-12	**0.0**	Shut in																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
21-Oct-12	**0.0**	Shut in																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
22-Oct-12	**0.0**	Shut in																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
23-Oct-12	**0.0**	Shut in																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
24-Oct-12	**0.0**	Shut in																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
25-Oct-12	**0.0**	Shut in	Changed out Generator as motor was still using oil. Now working well																			**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
26-Oct-12	**0.0**	Shut in																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
27-Oct-12	**0.0**	Shut in																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
28-Oct-12	**0.0**	Shut in																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
29-Oct-12	**0.0**	Shut in																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
30-Oct-12	**0.0**	Workover																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
31-Oct-12	**0.0**	Workover																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
01-Nov-12	**0.0**	Workover																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0	49	*100.0*	49.0			0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0
02-Nov-12	**0.0**	Workover																				**3.48**	140.0	**3.03**	*23.6*	14.0	126.0			**0.0**	0.0	0.0						0.0	0.0	0.0	14.0	0.0	0.0	0.0	106.0

1	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3							
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8			0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
03-Nov-12	12.0	Workover	Service Rig completed pump change. Started back up with no issues. Rig injected 28.5m3 of water into well. Fluid level gun no longer hooked up.						0	0								*100.0*	*/0/*	*0.0*		*75*	3.78	152.0	3.32	*23.6*	14.2	137.8			12.0	0.2	11.8					0.0	0.0	0.2	14.2	11.8	37.2	0.0	106.0
04-Nov-12	24.0		well running good. Starting to make oil						0	0								*50.0*	*/0/*	*0.0*		*74*	4.30	172.8	3.55	*20.0*	24.1	148.7			20.8	9.9	10.9					0.0	0.0	9.9	24.1	10.9	26.3	0.0	106.0
05-Nov-12	24.0		Well running good.						0									*70.0*	*/0/*	*0.0*		*76*	4.60	184.9	3.84	*10.0*	27.5	157.4			12.1	3.4	8.7					0.0	0.0	3.4	27.5	8.7	17.6	0.0	106.0
06-Nov-12	24.0		Well running good. Service rig pumped 8m3 of water down DP1 Casing.						0	0								*10.0*	*/0/*	*0.0*		*75*	5.00	200.9	4.00	*10.0*	36.2	164.7			16.1	8.7	7.4	8	*100.0*	8.0		0.0	0.0	8.7	36.2	7.4	18.2	0.0	106.0
07-Nov-12	24.0		Well running good.						0	0												*75*	5.20	209.0	4.05	*10.0*	41.6	167.4			8.0	5.4	2.6					0.0	0.0	5.4	41.6	2.6	15.6	0.0	106.0
08-Nov-12	15.0	SD on High Torque	Torque starting to climb. Thick oil being pumped. Re-insulated lines that service rig had removed.						0	0								*5.0*	*/0/*	*0.2*		*75*	5.40	217.0	4.10	*10.0*	47.0	170.0			8.0	5.4	2.6					0.0	0.0	5.4	47.0	2.6	13.0	0.0	106.0
09-Nov-12	0.0	SD on High Torque	Found well tripped. Tried to restart. Would not start due to high torque. Left down.						0	0								*0.0*	*/0/*	*0.0*		*75*	5.50	221.0	4.20	*10.0*	47.0	174.0			4.0	0.0	4.0					0.0	0.0	0.0	47.0	4.0	9.0	0.0	106.0
10-Nov-12	0.0		Waiting on flushby.						0	0								*0.0*	*/0/*	*0.0*		*74*	5.50	221.0	4.20	*10.0*	47.0	174.0			0.0	0.0	0.0					0.0	0.0	0.0	47.0	0.0	9.0	0.0	106.0
11-Nov-12	0.0		Waiting on flushby.						0	0								*0.0*	*/0/*	*0.0*		*74*	5.50	221.0	4.20	*10.0*	47.0	174.0			0.0	0.0	0.0					0.0	0.0	0.0	47.0	0.0	9.0	0.0	106.0
12-Nov-12	0.0		Waiting on flushby.						0	0								*0.0*	*/0/*	*0.0*		*74*	5.50	221.0	4.20	*10.0*	47.0	174.0			0.0	0.0	0.0					0.0	0.0	0.0	47.0	0.0	9.0	0.0	106.0
13-Nov-12	9.0		Did flushby. Flushed 5 cubes down well. Running good.						0	0								*0.0*	*/0/*	*0.0*		*74*	5.50	221.0	4.20	*10.0*	47.0	174.0			0.0	0.0	0.0	5	*100.0*	5.0		0.0	0.0	0.0	47.0	0.0	14.0	0.0	106.0
14-Nov-12	24.0		well running good						0	0								*5.0*	*/0/*	*0.0*		*75*	5.70	229.1	4.30	*10.0*	50.6	178.5			8.0	3.6	4.4					0.0	0.0	3.6	50.6	4.4	9.6	0.0	106.0
15-Nov-12	18.3	SD on High Torque	Torque readings starting to climb. Really heavy oil. Lowered pump speed to 60rpm						800	0								*5.0*	*/0/*	*0.0*		*74*	6.10	245.1	4.50	*10.0*	57.9	187.2			16.1	7.3	8.8					0.0	0.0	7.3	57.9	8.8	0.8	0.0	106.0
16-Nov-12	0.0	Shut in	Found well tripped. Tried to restart. Would not start due to high torque. Left down.						0	0												*75*	6.10	245.1	4.50	*10.0*	57.9	187.2			0.0	0.0	0.0					0.0	0.0	0.0	57.9	0.0	0.8	0.0	106.0
17-Nov-12	0.0	Shut in	Waiting on flushby.						0	0												*74*	6.10	245.1	4.50	*10.0*	57.9	187.2			0.0	0.0	0.0					0.0	0.0	0.0	57.9	0.0	0.8	0.0	106.0
18-Nov-12	0.0	Shut in	Waiting on flushby.						0	0												*74*	6.10	245.1	4.50	*10.0*	57.9	187.2			0.0	0.0	0.0					0.0	0.0	0.0	57.9	0.0	0.8	0.0	106.0
19-Nov-12	0.0	Shut in	Waiting on flushby.						0	0												*74*	6.10	245.1	4.50	*10.0*	57.9	187.2			0.0	0.0	0.0					0.0	0.0	0.0	57.9	0.0	0.8	0.0	106.0
20-Nov-12	0.0	Shut in	Waiting on flushby.						0	0												*75*	6.10	245.1	4.50	*10.0*	57.9	187.2			0.0	0.0	0.0					0.0	0.0	0.0	57.9	0.0	0.8	0.0	106.0
21-Nov-12	0.0	Shut in	Waiting on flushby.						0	0												*74*	6.10	245.1	4.50	*10.0*	57.9	187.2			0.0	0.0	0.0					0.0	0.0	0.0	57.9	0.0	0.8	0.0	106.0
22-Nov-12	0.0	Shut in	Waiting on flushby.						0	0												*75*	6.10	245.1	4.50	*10.0*	57.9	187.2			0.0	0.0	0.0					0.0	0.0	0.0	57.9	0.0	0.8	0.0	106.0
23-Nov-12	9.8								0	0								*100.0*	*/0/*	*0.0*		*74*	4.20	168.8	2.60	*10.0*	57.9	110.9	80.0		3.6	0.0	3.6	20	*100.0*	20.0		0.0	0.0	0.0	57.9	3.6	17.2	0.0	106.0
24-Nov-12	24.0		Well running good.						0	0								*80.0*	*/0/*	*0.0*		*75*	4.30	172.8	2.69	*10.0*	58.4	114.4			4.0	0.5	3.5					0.0	0.0	0.5	58.4	3.5	13.7	0.0	106.0
25-Nov-12	21.0		well running good						0	0								*5.0*	*/0/*	*0.0*		*75*	4.60	184.9	2.70	*10.0*	68.7	116.2			12.1	10.3	1.8					0.0	0.0	10.3	68.7	1.8	11.9	0.0	106.0
26-Nov-12	0.0	SD on High Torque	Found well tripped. Tried to restart. Would not start due to high torque. Left down.						0	0												*75*	4.75	190.8	2.71	*10.0*	73.7	117.1			5.9	5.0	0.9					0.0	0.0	5.0	73.7	0.9	11.0	0.0	106.0
27-Nov-12	0.0	Shut in	Shut in awaiting flush						0	0												*75*	4.75	190.8	2.71	*10.0*	73.7	117.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
28-Nov-12	0.0	Shut in	Service rig arived onsite and rigged up on DP1.						0	0												*75*	4.75	190.8	2.71	*10.0*	73.7	117.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
29-Nov-12	0.0	Shut in	Service rig performed 20m3 flush on DP1. Rigged off and moved to DP2. Leaving DP1 shut in awaiting chemical injection system. Moved extra 8m3 of water over to DP2						0	0												*75*	4.75	190.8	2.71	*10.0*	73.7	117.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
30-Nov-12	0.0	Shut in							0	0												*75*	4.75	190.8	2.71	*10.0*	73.7	117.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
01-Dec-12	0.0	Shut in	Pulled 28m3 of produced water from tank.						0	0												*75*	4.05	162.8	2.01	*10.0*	73.7	89.1	28.0		0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
02-Dec-12	0.0	Shut in							0	0												*75*	4.05	162.8	2.01	*10.0*	73.7	89.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
03-Dec-12	0.0	Shut in							0	0												*75*	4.05	162.8	2.01	*10.0*	73.7	89.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
04-Dec-12	0.0	Shut in							0	0												*75*	4.05	162.8	2.01	*10.0*	73.7	89.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
05-Dec-12	0.0	Shut in	DP2 flowed into tank for DP1 temporarily						0	0												*75*	4.25	170.8	2.21	*10.0*	73.7	97.1	-8.0		0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
06-Dec-12	0.0	Shut in							0	0												*75*	4.25	170.8	2.21	*10.0*	73.7	97.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
07-Dec-12	0.0	Shut in							0	0												*75*	4.25	170.8	2.21	*10.0*	73.7	97.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
08-Dec-12	0.0	Shut in	**Well equipped with ProFlux polymer recirculation packaged**	**Water recirc. Rate, m3/day**			**Proflux injection , L/day**		0	0												*75*	4.25	170.8	2.21	*10.0*	73.7	97.1			0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
09-Dec-12	10.0		Started well. Recircing produced water down casing at 2m3/day. Oilflow injecting flux chemical into water stream. Following Oilflow treatment program. Pumping water. No issues. Pulled out 10m3 of water from tank for flush on DP2.	2			150		0	0								*100.0*	*/0/*	*0.0*		*75*	4.00	160.7	1.71	*20.0*	73.7	87.0	10.0		0.0	0.0	0.0					0.0	0.0	0.0	73.7	0.0	11.0	0.0	106.0
10-Dec-12	24.0		Well pumping good. Water recirc and chem injection system working well. Still pumping water.	2			150		0	0												*75*	4.30	172.8	1.95	*20.0*	75.5	97.3			12.1	1.8	10.3					0.0	0.0	1.8	75.5	10.3	0.7	0.0	106.0
11-Dec-12	24.0		Starting to see flux chem in returns from well which is good. Cut back on chem injection rate. Starting to see oil in returns as well. All pumping good. Flush rig pulled 10m3 from tank to change pump on DP2	3			50		0	0								*75.0*	*/0/*	*0.0*		*75*	4.30	172.8	1.80	*20.0*	80.4	92.4	10.0		10.0	4.9	5.1	10	*100.0*	10.0		0.0	0.0	4.9	80.4	5.1	5.6	0.0	106.0
12-Dec-12	24.0		Well flowing good. Lots of oil. Transferred 4m3 of water from tank 1 to tank 2. Flush rig pulled 10m3 of emulsion from tank for pump change on DP2. Oil now at load line level.	3			60		0	0								*10.0*	*/0/*	*0.0*		*75*	4.20	168.8	1.61	*20.0*	83.3	85.5	6.3	7.7	10.0	9.2	0.8					0.0	0.0	9.2	89.6	0.8	4.8	0.0	106.0
13-Dec-12	24.0		Well flowing good. Pretty much straight oil. Torque up a bit. Line pressure up a bit now to.	5			70		300	0								*5.0*	*/0/*	*0.0*		*75*	4.30	172.8	1.59	*20.0*	87.1	85.7			4.0	3.8	0.2					0.0	0.0	3.8	93.4	0.2	4.6	0.0	106.0
14-Dec-12	24.0		Well flowing good.	5			70		125	0								*20.0*	*/0/*	*0.0*		*75*	4.50	180.8	1.56	*20.0*	94.5	86.3			8.0	7.4	0.6					0.0	0.0	7.4	100.8	0.6	4.0	0.0	106.0
15-Dec-12	24.0		Well starting to get really gassy. Casing pressure is coming up. Tubing sample lots of gas. Transferred 28m3 fluid into tank 2 to get above burner.	5			70		125	750								*gas*				*73*	4.00	160.7	0.82	*20.0*	102.2	58.5	28.0		7.9	7.7	0.2					0.0	0.0	7.7	108.5	0.2	3.8	0.0	106.0
16-Dec-12	24.0			4.6			60		125	725								*25.0*	*/0/*	*0.0*		*74*	4.15	166.8	0.82	*20.0*	107.0	59.8			6.0	4.8	1.2					0.0	0.0	4.8	113.3	1.2	2.6	0.0	106.0
17-Dec-12	24.0		Slowed PCP to 60rpm	4.6			30		125	700								*50.0*	*/0/*	*0.0*		*75*	4.28	172.0	0.82	*20.0*	111.2	60.8			5.2	4.2	1.0					0.0	0.0	4.2	117.5	1.0	1.6	0.0	106.0
18-Dec-12	22.0	Power Failure	PCP tripped on low voltage. Generator propane tank ran low and started surging. Replaced back pressure valve on oilflow skid to lower water recirc rate.	2			30		125	700								*20.0*	*/0/*	*0.0*		*75*	4.40	176.8	0.82	*20.0*	115.0	61.8			4.8	3.8	1.0					0.0	0.0	3.8	121.3	1.0	0.6	0.0	106.0
19-Dec-12	13.0	Power Failure	Found PCP tripped and restarted no problems. Propane got delivered. Ordered second tank for power generator. Fluid gun installed.	2			30		125	700								*20.0*	*/0/*	*0.0*		*77*	4.42	177.6	0.82	*20.0*	115.6	62.0			0.8	0.6	0.2					0.0	0.0	0.6	121.9	0.2	0.4	0.0	106.0
20-Dec-12	24.0		Well flowing alright. Production is down a bit. Little less gassy.	2.5			30		125	700							768	*10.0*	*/0/*	*0.0*		*74*	4.56	183.2	0.81	*20.0*	120.6	62.6			5.6	5.0	0.6					0.0	0.0	5.0	126.9	0.4	0.0	0.2	106.2
21-Dec-12	24.0		Flowing good.	2.5			30		125	700							776	*30.0*	*/0/*	*0.0*		*75*	4.66	187.3	0.81	*20.0*	123.7	63.6			4.0	3.1	0.9					0.0	0.0	3.1	130.0	0.0	0.0	0.9	107.1
22-Dec-12	24.0		All good. No issues	2			25		125	700							779	*30.0*	*/0/*	*0.0*		*74*	4.78	192.1	0.81	*20.0*	127.6	64.5			4.8	3.9	0.9					0.0	0.0	3.9	133.9	0.0	0.0	0.9	108.0

[1]	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m3	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3							
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8		0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
23-Dec-12	**24.0**		All good. No issues	2			25		125	700					770			*20.0 /0/ 0.0*				*74*	**4.85**	194.9	**0.81**	*20.0*	129.9	65.0			**2.8**	2.3	0.5					0.0	0.0	2.3	136.2	0.0	0.0	0.5	108.5
24-Dec-12	**24.0**		All good. No issues. Propane delivered today	2.5			25		125	650					773			*30.0 /0/ 0.0*				*75*	**4.92**	197.7	**0.81**	*19.8*	132.5	65.2			**2.8**	2.6	0.2					0.0	0.0	2.6	138.8	0.0	0.0	0.2	108.7
25-Dec-12	**24.0**		All good. No issues	2.5			25		125	650					757			*30.0 /0/ 0.0*				*75*	**5.00**	200.9	**0.81**	*19.6*	135.4	65.5			**3.2**	2.9	0.3					0.0	0.0	2.9	141.7	0.0	0.0	0.3	109.0
26-Dec-12	**24.0**		All good. No issues	2.5			25		125	650					762			*20.0 /0/ 0.0*				*75*	**5.12**	205.7	**0.81**	*19.3*	139.8	65.9			**4.8**	4.4	0.4					0.0	0.0	4.4	146.1	0.0	0.0	0.4	109.4
27-Dec-12	**24.0**		Cut back on recirc water a bit.	2			25		125	600					783							*75*	**5.20**	209.0	**0.81**	*19.1*	142.7	66.3			**3.2**	2.9	0.3					0.0	0.0	2.9	149.0	0.0	0.0	0.3	109.7
28-Dec-12	**23.5**	Other	Changed oil in generator. 1531hrs.	2			25		125	625					779							*74*	**5.24**	210.6	**0.81**	*19.1*	144.0	66.6			**1.6**	1.3	0.3					0.0	0.0	1.3	150.3	0.0	0.0	0.3	110.0
29-Dec-12	**24.0**		All good. No issues. Propane delivered	2			25		125	625					789							*75*	**5.32**	213.8	**0.81**	*18.9*	147.0	66.8			**3.2**	3.0	0.2					0.0	0.0	3.0	153.3	0.0	0.0	0.2	110.2
30-Dec-12	**24.0**		All good. No issues	1.5			25		125	625					776							*75*	**5.44**	218.6	**0.81**	*18.6*	151.5	67.1			**4.8**	4.5	0.3					0.0	0.0	4.5	157.8	0.0	0.0	0.3	110.5
31-Dec-12	**24.0**		All good. No issues	1.5			25		125	600					780							*75*	**5.52**	221.8	**0.81**	*18.4*	154.4	67.4			**3.2**	2.9	0.3					0.0	0.0	2.9	160.7	0.0	0.0	0.3	110.8
01-Jan-13	**24.0**		All good. No Issues	1.5			25		125	600					778							*75*	**5.58**	224.2	**0.81**	*18.3*	156.6	67.6			**2.4**	2.2	0.2					0.0	0.0	2.2	162.9	0.0	0.0	0.2	111.0
02-Jan-13	**24.0**		All good. No issues	1.5			25		125	600					789							*73*	**5.66**	227.4	**0.81**	*18.1*	159.6	67.8			**3.2**	3.0	0.2					0.0	0.0	3.0	165.9	0.0	0.0	0.2	111.2
03-Jan-13	**24.0**		Cut back on dosing rate for chemical. Lots of oil in tank.	1.5			20		125	550					782			*20.0 /0/ 0.0*				*73*	**5.74**	230.7	**0.81**	*18.0*	162.5	68.2			**3.2**	2.9	0.3					0.0	0.0	2.9	168.8	0.0	0.0	0.3	111.5
04-Jan-13	**24.0**		All good. No issues	1.5			15		125	550					782			*20.0 /0/ 0.0*				*73*	**5.78**	232.3	**0.81**	*18.5*	162.8	69.5			**1.6**	0.3	1.3					0.0	0.0	0.3	169.1	0.0	0.0	1.3	112.8
05-Jan-13	**24.0**		All good. No issues	1.5			15		125	550					779			*20.0 /0/ 0.0*				*74*	**5.82**	233.9	**0.81**	*19.0*	163.1	70.8			**1.6**	0.3	1.3					0.0	0.0	0.3	169.4	0.0	0.0	1.3	114.1
06-Jan-13	**24.0**		All good. No issues	1.5			15		125	550					781			*10.0 /0/ 0.0*				*73*	**5.94**	238.7	**0.81**	*19.5*	166.0	72.7			**4.8**	2.9	1.9					0.0	0.0	2.9	172.3	0.0	0.0	1.9	116.0
07-Jan-13	**24.0**		All good. No issues	1.5			15		125	550					787			*10.0 /0/ 0.0*				*74*	**6.00**	241.1	**0.81**	*20.0*	166.8	74.3			**2.4**	0.8	1.6					0.0	0.0	0.8	173.1	0.0	0.0	1.6	117.6
08-Jan-13	**24.0**		All good. No issues	1.5			15		125	550					775			*10.0 /0/ 0.0*				*73*	**6.08**	244.3	**0.81**	*20.5*	168.4	75.9			**3.2**	1.6	1.6					0.0	0.0	1.6	174.7	0.0	0.0	1.6	119.2
09-Jan-13	**24.0**		Shipped first load of oil today to Tervita.	1.5			15		125	500					778			*10.0 /0/ 0.0*				*74*	**5.28**	212.2	**0.61**	*21.0*	148.3	63.9	22.1	12.5	**2.5**	2.0	0.5					0.0	0.0	2.0	176.7	0.0	0.0	0.5	119.7
10-Jan-13	**24.0**		All good.	1.5			15		125	500					774			*20.0 /0/ 0.0*				*73*	**5.35**	215.0	**0.61**	*21.5*	149.5	65.5			**2.8**	1.2	1.6					0.0	0.0	1.2	177.9	0.0	0.0	1.6	121.3
11-Jan-13	**22.0**	Power Failure	Well tripped on low voltage. Generator surged due to low propane. Truck was late delivering. Restarted with no issues. Increased water flow on recirc skid to flush	5			15		125	500					772			*10.0 /0/ 0.0*				*73*	**5.40**	217.0	**0.61**	*22.0*	150.1	66.9			**2.0**	0.6	1.4					0.0	0.0	0.6	178.5	0.0	0.0	1.4	122.7
12-Jan-13	**24.0**		Cut back recirc flow	1.5			15		125	500					768			*10.0 /0/ 0.0*				*73*	**5.50**	221.0	**0.61**	*22.5*	152.3	68.7			**4.0**	2.2	1.8					0.0	0.0	2.2	180.7	0.0	0.0	1.8	124.5
13-Jan-13	**24.0**		All good. No issues	1.5			15		125	500					766			*20.0 /0/ 0.0*				*73*	**5.54**	222.6	**0.61**	*23.0*	152.5	70.1			**1.6**	0.2	1.4					0.0	0.0	0.2	180.9	0.0	0.0	1.4	125.9
14-Jan-13	**24.0**		All good. No issues. Production dropped off a bit	1.5			15		125	500					769			*20.0 /0/ 0.0*				*73*	**5.60**	225.0	**0.61**	*23.5*	153.4	71.6			**2.4**	0.9	1.5					0.0	0.0	0.9	181.8	0.0	0.0	1.5	127.4
15-Jan-13	**24.0**		All good. No Issues	1.5			15		200	500					761			*20.0 /0/ 0.0*				*73*	**5.68**	228.3	**0.61**	*24.0*	154.8	73.5			**3.2**	1.4	1.8					0.0	0.0	1.4	183.2	0.0	0.0	1.8	129.2
16-Jan-13	**24.0**		Chem injection pump quit pumping. Got going again. Flowline pressure up a bit.	2.1			15		700	450					762			*10.0 /0/ 0.0*				*73*	**5.74**	230.7	**0.61**	*24.5*	155.6	75.1			**2.4**	0.8	1.6					0.0	0.0	0.8	184.0	0.0	0.0	1.6	130.8
17-Jan-13	**24.0**		Propane delivered. Shipped load of oil.	2.1			20		450	450					779			*10.0 /0/ 0.0*				*78*	**4.95**	198.9	**0.54**	*25.0*	132.9	66.0	22.9	10.9	**2.1**	0.2	1.9					0.0	0.0	0.2	184.2	0.0	0.0	1.9	132.7
18-Jan-13	**24.0**		torque and flowline pressure back down. Recirc cut back.	1.4			20		125	450					742			*20.0 /0/ 0.0*				*73*	**5.00**	200.9	**0.55**	*25.5*	133.2	67.7			**2.0**	0.3	1.7					0.0	0.0	0.3	184.5	0.0	0.0	1.7	134.4
19-Jan-13	**11.0**	Power Failure	All good.	1.5			20		125	450					749			*20.0 /0/ 0.0*				*73*	**5.10**	204.9	**0.55**	*26.0*	135.3	69.6			**4.0**	2.1	1.9					0.0	0.0	2.1	186.6	0.0	0.0	1.9	136.3
20-Jan-13	**24.0**		Found PCP and recirc pump tripped due to power failure. Generator had stayed running but must have surged enough to trip out the pumps. Restarted with no issues. Torque high but coming down.	2			20		125	500					754			*gas*				*73*	**5.14**	206.6	**0.55**	*26.5*	135.6	71.0			**1.6**	0.3	1.3					0.0	0.0	0.3	186.9	0.0	0.0	1.3	137.6
21-Jan-13	**24.0**		2nd propane tank for generator finally delivered and setup. Propane delivered.	2			20		125	450					763			*10.0 /0/ 0.0*				*73*	**5.20**	209.0	**0.55**	*27.0*	136.4	72.6			**2.4**	0.8	1.6					0.0	0.0	0.8	187.7	0.0	0.0	1.6	139.2
22-Jan-13	**24.0**		Recirc pump was not pumping water. Valves on pump gummed up with oil. Got going again. Set rate higher to flush as torque was coming up.	5			20		125	450					758			*5.0 /0/ 0.0*				*75*	**5.30**	213.0	**0.60**	*27.5*	136.9	76.1			**4.0**	0.5	3.5					0.0	0.0	0.5	188.2	0.0	0.0	3.5	142.7
23-Jan-13	**24.0**		Shipped out load of oil. Pyramid onsite to fix venting problems on tank burner from inspectors report.	4.5			20		125	450					776			*20.0 /0/ 0.0*				*74*	**4.47**	179.6	**0.60**	*28.0*	112.0	67.6	25.3	9.9	**1.8**	0.4	1.4					0.0	0.0	0.4	188.6	0.0	0.0	1.4	144.1
24-Jan-13	**24.0**		***Pulled 15m3 of produced water from Tank 2. mixed with 1m3 of flux chemical and pushed down the long string on DP1 with pressure truck. Gained 150m of fluid level. Sped up PCP to 75rpm. Left recirc and chem injection off for day. Shipped out load of oil.***	0			0		125	450					618			*10.0 /0/ 0.0*				*74*	**3.65**	146.7	**0.60**	*28.0*	88.2	58.5	25.2	9.9	**2.1**	1.4	0.7	15	*100.0*	15.0		0.0	0.0	1.4	190.0	0.7	14.3	0.0	144.1
25-Jan-13	**23.5**	Other	Changed oil in generator. 2199hrs. Fluid level coming back down but still good oil in cut. Left recirc down for another day.	0			0		125	450					719			*30.0 /0/ 0.0*				*74*	**3.82**	153.5	**0.70**	*28.0*	90.3	63.2			**6.8**	2.1	4.7					0.0	0.0	2.1	192.1	4.7	9.6	0.0	144.1
26-Jan-13	**24.0**		Restarted recirc pump. Left chem injection down as tank concentration at good strength.	2			0		125	450					722			*40.0 /0/ 0.0*				*74*	**4.10**	164.8	**0.80**	*28.0*	95.5	69.3			**11.3**	5.2	6.1					0.0	0.0	5.2	197.3	6.1	3.5	0.0	144.1
27-Jan-13	**7.0**	Power Failure	Found PCP and recirc pump tripped due to power failure. Generator surged enough to trip out the pumps. Restarted with no issues. Torque high but coming down.	2			0		125	450					754			*gas*				*73*	**4.20**	168.8	**0.83**	*28.0*	97.5	71.3			**4.0**	2.0	2.0					0.0	0.0	2.0	199.3	2.0	1.5	0.0	144.1
28-Jan-13	**24.0**		Increased recirc flow and started chem injection as torque was still around 500. Started coming back down. Fluid level gun not reading. Thinking the cold is effecting them. Troubleshooting.	4			20		125	500								*5.0 /0/ 0.0*				*72*	**4.32**	173.6	**0.87**	*28.0*	99.8	73.8			**4.8**	2.3	2.5					0.0	0.0	2.3	201.6	1.5	0.0	1.0	145.1
29-Jan-13	**24.0**		Both fluid guns not reading due to cold. Screens not reading. PIT coming out in morning to check. Increased tank temp setpoint to 85c to aid in tank seperation.	3.2			20		125	500								*10.0 /0/ 0.0*				*74*	**4.38**	176.0	**0.90**	*28.0*	100.7	75.3			**2.4**	0.9	1.5					0.0	0.0	0.9	202.5	0.0	0.0	1.5	146.6
30-Jan-13	**24.0**		PIT Onsite. Checked out fluid guns and they were working and collecting data but it was just to cold for the screens.	3.2			20		125	500					689			*10.0 /0/ 0.0*				*77*	**4.46**	179.2	**0.90**	*28.0*	103.0	76.2			**3.2**	2.3	0.9					0.0	0.0	2.3	204.8	0.0	0.0	0.9	147.5
31-Jan-13	**24.0**		Cut back on water injection.	2.5			20		125	500					722			*10.0 /0/ 0.0*				*76*	**4.52**	181.6	**0.90**	*28.0*	104.7	76.9			**2.4**	1.7	0.7					0.0	0.0	1.7	206.5	0.0	0.0	0.7	148.2
01-Feb-13	**24.0**		Shut off chemical injection. Rates and strength high. Slowed PCP to 60 rpm. Well producing a lot of gas and production dropping off.	1.5			0		125	500					711			*5.0 /0/ 0.0*				*72*	**4.58**	184.0	**0.90**	*29.0*	105.0	79.0			**2.4**	0.3	2.1					0.0	0.0	0.3	206.8	0.0	0.0	2.1	150.3
02-Feb-13	**24.0**		All good.	1			0		125	500					709			*10.0 /0/ 0.0*				*84*	**4.62**	185.7	**0.90**	*29.0*	106.1	79.6			**1.6**	1.1	0.5					0.0	0.0	1.1	207.9	0.0	0.0	0.5	150.8
03-Feb-13	**24.0**		All good	0.9			0		125	500					713			*10.0 /0/ 0.0*				*83*	**4.74**	190.5	**0.90**	*29.0*	109.6	80.9			**4.8**	3.5	1.3					0.0	0.0	3.5	211.4	0.0	0.0	1.3	152.1
04-Feb-13	**24.0**		All good.	0.9			0		125	500					714			*10.0 /0/ 0.0*				*84*	**4.80**	192.9	**0.90**	*29.0*	111.3	81.6			**2.4**	1.7	0.7					0.0	0.0	1.7	213.1	0.0	0.0	0.7	152.8
05-Feb-13	**24.0**		All good.	1			0		125	500					711			*10.0 /0/ 0.0*				*83*	**4.88**	196.1	**0.90**	*29.0*	113.6	82.5			**3.2**	2.3	0.9					0.0	0.0	2.3	215.4	0.0	0.0	0.9	153.7
06-Feb-13	**24.0**		All good.	1			0		125	450					712			*10.0 /0/ 0.0*				*84*	**4.96**	199.3	**0.90**	*29.0*	115.8	83.5			**3.2**	2.2	1.0					0.0	0.0	2.2	217.6	0.0	0.0	1.0	154.7
07-Feb-13	**24.0**		All good. No changes	1			0		125	450					714			*5.0 /0/ 0.0*				*83*	**5.02**	201.7	**0.90**	*29.0*	117.5	84.2			**2.4**	1.7	0.7					0.0	0.0	1.7	219.3	0.0	0.0	0.7	155.4
08-Feb-13	**24.0**		Oil coming back looks slightly lighter. Will send sample to Calgary	1			0		125	450					714			*5.0 /0/ 0.0*				*84*	**5.10**	204.9	**0.90**	*29.0*	119.8	85.1			**3.2**	2.3	0.9					0.0	0.0	2.3	221.6	0.0	0.0	0.9	156.3

[1]	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m3	%	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8		0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
09-Feb-13	**24.0**		All good.	1			0		200	450					726			*5.0*	*/0/*	*0.0*		*84*	**5.16**	207.4	**0.90**	*29.0*	121.5	85.9			**2.4**	1.7	0.7					0.0	0.0	1.7	223.3	0.0	0.0	0.7	157.0
10-Feb-13	**24.0**		All good. Flowline pressure up a bit. If still high in morning will turn chem back on.	1			0		700	450					718			*5.0*	*/0/*	*0.0*		*84*	**5.24**	210.6	**0.90**	*29.0*	123.8	86.8			**3.2**	2.3	0.9					0.0	0.0	2.3	225.6	0.0	0.0	0.9	157.9
11-Feb-13	**24.0**		All good.	1			0		125	450					728			*5.0*	*/0/*	*0.0*		*83*	**5.32**	213.8	**0.90**	*29.0*	126.1	87.7			**3.2**	2.3	0.9					0.0	0.0	2.3	227.9	0.0	0.0	0.9	158.8
12-Feb-13	**24.0**		Turned flux chem back on. Tank concentration diluted back down.	1			12		125	450					723			*5.0*	*/0/*	*0.0*		*83*	**5.40**	217.0	**0.90**	*29.0*	128.4	88.6			**3.2**	2.3	0.9					0.0	0.0	2.3	230.2	0.0	0.0	0.9	159.7
13-Feb-13	**24.0**		Production dropped off a bit. Thick oil coming up.	1			10		500	450					714			*5.0*	*/0/*	*0.0*		*83*	**5.46**	219.4	**0.90**	*29.0*	130.1	89.3			**2.4**	1.7	0.7					0.0	0.0	1.7	231.9	0.0	0.0	0.7	160.4
14-Feb-13	**20.0**	SD on High Line pressure	Found PCP tripped. Flowline was pressuring up and tripping out Presco. Increased recirc rate and chem injection rate and monitored. Pressure and torque came back down. Propane delivered.	4.5			20		1200	450					728			*5.0*	*/0/*	*0.0*		*83*	**5.52**	221.8	**0.90**	*29.0*	131.8	90.0			**2.4**	1.7	0.7					0.0	0.0	1.7	233.6	0.0	0.0	0.7	161.1
15-Feb-13	**24.0**		PIT Onsite. Downloaded data from fluid guns and changed out N2. Cut back on recirc and chem injection. Well back to normal.	2			16		125	450					727			*5.0*	*/0/*	*0.0*		*83*	**5.60**	225.0	**0.90**	*29.0*	134.1	90.9			**3.2**	2.3	0.9					0.0	0.0	2.3	235.9	0.0	0.0	0.9	162.0
16-Feb-13	**23.0**	Other	Shut in well for 1 hour for generator maintenance. Plugs changed. 2730hrs. Well restarted and flowing good.	1.6			15		125	450					726			*10.0*	*/0/*	*0.0*		*83*	**5.67**	227.9	**0.90**	*29.0*	136.1	91.8			**2.8**	2.0	0.8					0.0	0.0	2.0	237.9	0.0	0.0	0.8	162.8
17-Feb-13	**24.0**		Shipped out load of oil. Waiting on BS&W.	1.6			15		125	450					728			*20.0*	*/0/*	*0.0*		*84*	**4.72**	189.7	**0.90**	*23.2*	117.9	71.8	18.6	20.2	**0.6**	0.4	0.2					0.0	0.0	0.4	238.3	0.0	0.0	0.2	163.0
18-Feb-13	**24.0**		All good.	1			15		125	450					732			*20.0*	*/0/*	*0.0*		*84*	**4.80**	192.9	**0.90**	*23.5*	119.9	73.0			**3.2**	2.0	1.2					0.0	0.0	2.0	240.3	0.0	0.0	1.2	164.2
19-Feb-13	**24.0**		All good.	1			15		125	450					721			*10.0*	*/0/*	*0.0*		*83*	**4.88**	196.1	**0.90**	*23.5*	122.4	73.7			**3.2**	2.5	0.7					0.0	0.0	2.5	242.8	0.0	0.0	0.7	164.9
20-Feb-13	**24.0**		All good.	1			15		125	450					732			*5.0*	*/0/*	*0.0*		*83*	**5.00**	200.9	**0.90**	*23.5*	126.0	74.9			**4.8**	3.6	1.2					0.0	0.0	3.6	246.4	0.0	0.0	1.2	166.1
21-Feb-13	**24.0**		Maxxam collected gas sample from DP1. Cut back on flux chem a bit.	1			12		125	450					733			*5.0*	*/0/*	*0.0*		*83*	**5.20**	209.0	**0.90**	*23.5*	132.2	76.8			**8.0**	6.2	1.8					0.0	0.0	6.2	252.6	0.0	0.0	1.8	167.9
22-Feb-13	**24.0**		Well stopped producing it seems. Returns from well are pretty wet and look like we may be over treating with chem. Cut back on injection.	1			5		125	450					729			*5.0*	*/0/*	*0.0*		*83*	**5.20**	209.0	**0.90**	*23.5*	132.2	76.8			**0.0**	0.0	0.0					0.0	0.0	0.0	252.6	0.0	0.0	0.0	167.9
23-Feb-13	**24.0**		Well still not producing. Shut off chem injection and water recirc. Think we may be in a bit of over treat and causing to much slip downhole. Everything else looks normal.	0			0		125	450					731			*20.0*	*/0/*	*0.0*		*83*	**5.20**	209.0	**0.90**	*23.5*	132.2	76.8			**0.0**	0.0	0.0					0.0	0.0	0.0	252.6	0.0	0.0	0.0	167.9
24-Feb-13	**24.0**		Production coming back. Still showing over treat.	0			0		125	450					733			*10.0*	*/0/*	*0.0*		*83*	**5.26**	211.4	**0.90**	*23.5*	134.0	77.4			**2.4**	1.8	0.6					0.0	0.0	1.8	254.4	0.0	0.0	0.6	168.5
25-Feb-13	**24.0**		Well returns really gassy. Good oil with it.	0			0		125	450					731			*10.0*	*/0/*	*0.0*		*84*	**5.30**	213.0	**0.90**	*23.5*	135.3	77.7			**1.6**	1.3	0.3					0.0	0.0	1.3	255.7	0.0	0.0	0.3	168.8
26-Feb-13	**24.0**		Restarted recirc and chem injection at low rate. Flowline pressure was starting to come up.	1.3			3		300	450					732			*5.0*	*/0/*	*0.0*		*83*	**5.38**	216.2	**0.90**	*23.5*	137.7	78.5			**3.2**	2.4	0.8					0.0	0.0	2.4	258.1	0.0	0.0	0.8	169.6
27-Feb-13	**23.0**		Changed oil on generator. 2993 hrs.	1.3			4		125	450					734			*5.0*	*/0/*	*0.0*		*83*	**5.48**	220.2	**0.90**	*23.5*	140.8	79.4			**4.0**	3.1	0.9					0.0	0.0	3.1	261.2	0.0	0.0	0.9	170.5
28-Feb-13	**24.0**		Baker collected wellhead samples. Shut off fluc chem as concentration was good.	1.2			0		125	450					734			*20.0*	*/0/*	*0.0*		*84*	**5.60**	225.0	**0.90**	*23.5*	144.5	80.5			**4.8**	3.7	1.1					0.0	0.0	3.7	264.9	0.0	0.0	1.1	171.6
01-Mar-13	**24.0**		PIT onsite and downloaded data from fluid guns.	1.2			0		125	450					735			*10.0*	*/0/*	*0.0*		*83*	**5.70**	229.1	**0.90**	*25.0*	144.7	84.4			**4.0**	0.2	3.8					0.0	0.0	0.2	265.1	0.0	0.0	3.8	175.4
02-Mar-13	**24.0**		Shipped load of oil.	1.3			0		125	450					735			*5.0*	*/0/*	*0.0*		*84*	**4.75**	190.9	**0.90**	*20.0*	123.8	67.1	21.7	17.7	**1.2**	0.8	0.4					0.0	0.0	0.8	265.9	0.0	0.0	0.4	175.8
03-Mar-13	**24.0**		All good.	1.4			0		125	450					737			*5.0*	*/0/*	*0.0*		*84*	**4.78**	192.1	**0.90**	*20.5*	124.0	68.1			**1.2**	0.2	1.0					0.0	0.0	0.2	266.1	0.0	0.0	1.0	176.8
04-Mar-13	**14.0**		Superior Propane didn't deliver propane. Generator ran out around 06:30 this morning. DP1 tripped. Called Superior again and they said they would have a truck out within a couple hours. PCP restarted at 16:30 with no issues. Recirc pumps restarted.	1.3			0		125	450					719			*gas*				*84*	**4.80**	192.9	**0.90**	*20.7*	124.3	68.6			**0.8**	0.3	0.5					0.0	0.0	0.3	266.4	0.0	0.0	0.5	177.3
05-Mar-13	**24.0**		Champion rep out to collect samples. Flowline pressure coming up. Restarted chem injection. Shipped out load of oil. ***Ammended tank Level***	1.5			4		500	450					737			*5.0*	*/0/*	*0.0*		*84*	**3.92**	157.5	**0.90**	*16.7*	101.1	56.4	23.4	12.6	**0.6**	0.2	0.4					0.0	0.0	0.2	266.6	0.0	0.0	0.4	177.7
06-Mar-13	**24.0**		Increased chem injection as torque was still little high.	1.5			10		300	450					737			*5.0*	*/0/*	*0.0*		*84*	**4.00**	160.7	**0.90**	*18.0*	102.2	58.5			**3.2**	1.1	2.1					0.0	0.0	1.1	267.7	0.0	0.0	2.1	179.8
07-Mar-13	**24.0**		torque and flowline pressure back down. Recirc cut back.	1.3			10		125	450					737			*5.0*	*/0/*	*0.0*		*83*	**4.08**	164.0	**0.90**	*19.0*	103.5	60.5			**3.2**	1.3	1.9					0.0	0.0	1.3	269.0	0.0	0.0	1.9	181.7
08-Mar-13	**24.0**		All good.	1.3			10		125	450					734			*10.0*	*/0/*	*0.0*		*83*	**4.16**	167.2	**0.90**	*20.5*	104.1	63.1			**3.2**	0.6	2.6					0.0	0.0	0.6	269.6	0.0	0.0	2.6	184.3
09-Mar-13	**24.0**		Shipped out load of oil.	1			10		125	450					739			*10.0*	*/0/*	*0.0*		*83*	**3.26**	131.0	**0.90**	*13.2*	82.3	48.7	21.9	14.6	**0.3**	0.1	0.2					0.0	0.0	0.1	269.7	0.0	0.0	0.2	184.5
10-Mar-13	**24.0**		All good	1			10		125	450					737			*10.0*	*/0/*	*0.0*		*83*	**3.34**	134.2	**0.90**	*15.0*	83.3	50.9			**3.2**	1.0	2.2					0.0	0.0	1.0	270.7	0.0	0.0	2.2	186.7
11-Mar-13	**24.0**		Found recirc water rate at 3m3/d. Cut back to .9.	0.9			10		125	450					737			*10.0*	*/0/*	*0.0*		*83*	**3.42**	137.4	**0.90**	*17.0*	84.1	53.3			**3.2**	0.8	2.4					0.0	0.0	0.8	271.5	0.0	0.0	2.4	189.1
12-Mar-13	**24.0**		All good.	1			10		125	450					737			*10.0*	*/0/*	*0.0*		*83*	**3.50**	140.6	**0.90**	*18.5*	85.2	55.4			**3.2**	1.1	2.1					0.0	0.0	1.1	272.6	0.0	0.0	2.1	191.2
13-Mar-13	**24.0**		Shipped part load of oil. Shut off chem injection as wellhead sample was only gas and production dropped off a bit. ***Ammended tank level***	1.2			0		125	500					739			*gas*				*84*	**3.02**	121.4	**0.90**	*14.8*	72.6	48.8	12.8	7.2	**0.7**	0.2	0.5					0.0	0.0	0.2	272.8	0.0	0.0	0.5	191.7
14-Mar-13	**24.0**		All good.	1.2			0		125	500					737			*20.0*	*/0/*	*0.0*		*83*	**3.06**	123.0	**0.90**	*15.5*	73.3	49.7			**1.6**	0.7	0.9					0.0	0.0	0.7	273.5	0.0	0.0	0.9	192.6
15-Mar-13	**24.0**		All good.	1.2			0		125	500					737			*20.0*	*/0/*	*0.0*		*83*	**3.14**	126.2	**0.90**	*17.0*	74.7	51.5			**3.2**	1.4	1.8					0.0	0.0	1.4	274.9	0.0	0.0	1.8	194.4
16-Mar-13	**24.0**		Maxxam collected gas samples	1.2			0		125	500					739			*10.0*	*/0/*	*0.0*		*84*	**3.20**	128.6	**0.90**	*18.0*	75.8	52.8			**2.4**	1.1	1.3					0.0	0.0	1.1	276.0	0.0	0.0	1.3	195.7
17-Mar-13	**24.0**		All good.	1.2			0		125	500					739			*10.0*	*/0/*	*0.0*		*84*	**3.28**	131.8	**0.90**	*19.5*	77.0	54.8			**3.2**	1.2	2.0					0.0	0.0	1.2	277.2	0.0	0.0	2.0	197.7
18-Mar-13	**24.0**		All good	1.2			0		125	500					739			*10.0*	*/0/*	*0.0*		*84*	**3.34**	134.2	**0.90**	*20.5*	78.0	56.2			**2.4**	1.0	1.4					0.0	0.0	1.0	278.2	0.0	0.0	1.4	199.1
19-Mar-13	**24.0**		All good.	1.1			0		125	500					739			*10.0*	*/0/*	*0.0*		*84*	**3.40**	136.6	**0.90**	*21.5*	78.9	57.7			**2.4**	0.9	1.5					0.0	0.0	0.9	279.1	0.0	0.0	1.5	200.6
20-Mar-13	**16.0**	Other	Shut in well. Oil leaking from stuffing box. Flushby unit ordered to change it out. Pyramid onsite to do the electrical install for chemical pumps. N-Cross onsite to measure up spool for tester tie in.	0			0		125	500					739			*0.0*	*/0/*	*0.0*		*84*	**3.46**	139.0	**0.90**	*22.0*	80.2	58.8			**2.4**	1.3	1.1					0.0	0.0	1.3	280.4	0.0	0.0	1.1	201.7
21-Mar-13	**0.0**	Other	Awaiting flushby to change stuffing box.	0			0		125	500					687			*0.0*	*/0/*	*0.0*		*84*	**3.46**	139.0	**0.90**	*22.0*	80.2	58.8			**0.0**	0.0	0.0					0.0	0.0	0.0	280.4	0.0	0.0	0.0	201.7
22-Mar-13	**0.0**	Other	Bled off casing pressure.	0			0		70	80					602			*0.0*	*/0/*	*0.0*		*84*	**3.46**	139.0	**0.90**	*22.0*	80.2	58.8			**0.0**	0.0	0.0					0.0	0.0	0.0	280.4	0.0	0.0	0.0	201.7
23-Mar-13	**7.0**		Flushby unit changed out stuffing box on top drive. Flushed 4m3 of water downhole to kill well, 1m3 down the flowline to the tank (5m3 of water from DP2 tank). Restarted well at 17:00. recirc and chemical on.	1.2			15		50	56					534			*gas*				*83*	**3.50**	140.6	**0.90**	*23.0*	80.5	60.1		-1.0	**0.6**	0.3	0.3	4	*100.0*	4.0		0.0	0.0	0.3	280.7	0.3	3.7	0.0	201.7
24-Mar-13	**24.0**		Flowline pressuring up. Increased recirc and chemical	2			15		300	350					610			*20.0*	*/0/*	*0.0*		*83*	**3.62**	145.5	**0.90**	*24.5*	82.5	63.0			**4.8**	2.0	2.8					0.0	0.0	2.0	282.7	2.8	0.9	0.0	201.7
25-Mar-13	**22.0**	SD on High Line pressure	Found PCP tripped on high flowline pressure. Not much water left in the tank and the recirc pump is pumping oil. Going to try and transfer water from tank 2 tomorrow. Restarted PCP, increased chemical injection. Tripped for 3 hrs	3			30		200	285					632			*5.0*	*/0/*	*0.0*		*84*	**3.80**	152.7	**0.90**	*26.0*	86.2	66.5			**7.2**	3.7	3.5					0.0	0.0	3.7	286.4	0.9	0.0	2.6	204.3

[1]	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m3	%	m3	m3	m3	m3	m3	m3	m3	m	%	m3	m3								
Total:	8646.4																													746.1	1786.6	2526.9	746.1	1780.8		0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
26-Mar-13	21.0		Shut down DP1 for 4 hours to install new spool on flowline to allow for testers and chemical injection. Restarted fine. Changed out welhead gauges on tubing and casing to show low pressures more accurately. Cut back on recirc and chem injection. Flow had gone up to 4m3/d	2			20		75	65					660			*5.0*	*/0/*	*0.0*		*84*	**3.96**	159.1	**0.90**	*28.0*	88.5	70.6			**6.4**	2.3	4.1					0.0	0.0	2.3	288.7	0.0	0.0	4.1	208.4
27-Mar-13	24.0		Flowline still pressuring up. Trying to find load of water for tank recirc.	2			20		200	480					760			*5.0*	*/0/*	*0.0*		*84*	**4.06**	163.2	**0.90**	*29.0*	90.2	73.0			**4.0**	1.7	2.3					0.0	0.0	1.7	290.4	0.0	0.0	2.3	210.7
28-Mar-13	24.0		Started injection of demulsifer into flowline. Baker chemical. Flowline still pressuring up. It pressures up and then bleeds off. PIT onsite to download fluid gun data	2			30		100	130					727			*5.0*	*/0/*	*0.0*		*84*	**4.22**	169.6	**0.90**	*31.0*	92.1	77.5			**6.4**	1.9	4.5					0.0	0.0	1.9	292.3	0.0	0.0	4.5	215.2
29-Mar-13	24.0		Found recirc water rate at 9m3/d. Flowing water now. Cut back to 2m3. Shut off demulsifier. No suction check valve on suction line so pump was not pumping right. Ordered parts.	2			30		570	80					768			*5.0*	*/0/*	*0.0*		*84*	**4.30**	172.8	**0.90**	*32.0*	92.9	79.9			**3.2**	0.8	2.4					0.0	0.0	0.8	293.1	0.0	0.0	2.4	217.6
30-Mar-13	24.0		flowline pressure and torque looking better.	2			30		110	80					765			*5.0*	*/0/*	*0.0*		*84*	**4.38**	176.0	**0.95**	*32.0*	93.7	82.3			**3.2**	0.8	2.4					0.0	0.0	0.8	293.9	0.0	0.0	2.4	220.0
31-Mar-13	24.0		Recirc was flowing at 4m3/d. Cut back to 1.	1			30		90	70					751			*20.0*	*/0/*	*0.0*		*84*	**4.44**	178.4	**1.00**	*32.0*	94.0	84.4			**2.4**	0.3	2.1					0.0	0.0	0.3	294.2	0.0	0.0	2.1	222.1
01-Apr-13	24.0		Got production chemicals pumping again. Pumping at 2L/d. Cut back on Oilflow chem. Testers onsite and started to rig up. Going to start flowing in the morning. Shipped 1m3 H2O to Tervite H.Prairie (Ticket 3052)	1.1			10		70	70					742			*10.0*	*/0/*	*0.0*		*84*	**4.45**	178.8	**1.05**	*30.5*	95.0	83.8		1.0	**1.4**	1.0	0.4					0.0	0.0	1.0	295.2	0.0	0.0	0.4	222.5
02-Apr-13	24.0		Swung well to testers at 13:00. Casing gas and tubing tied together and running to their P tank.	1.3			10		110	70					748			*5.0*	*/0/*	*0.0*		*84*	**4.50**	180.8	**1.05**	*30.5*	96.4	84.4			**2.0**	1.4	0.6					0.0	0.0	1.4	296.6	0.0	0.0	0.6	223.1
03-Apr-13	21.0		Testers on well. Increased rpm to 80. Shut off water recirc and chem injection. Rate had climbed up to 4m3/d. Fluid level all over the place. Reading does not seem accurate. Clean water at 4' on tank.	0			0		70	40					474			*90.0*	*/0/*	*0.0*		*84*	**4.60**	184.9	**1.05**	*31.0*	98.4	86.5			**4.0**	2.0	2.0					0.0	0.0	2.0	298.6	0.0	0.0	2.0	225.1
04-Apr-13	24.0		PCP tripped last night on high torque. Resarted recirc water and chemical injection. Let flow for couple hours and PCP restarted. Increased PCP rpm to 90 today.	3.5			10		50	20								*30.0*	*/0/*	*0.0*		*84*	**4.61**	185.3	**1.05**	*31.0*	98.7	86.6			**0.4**	0.3	0.1					0.0	0.0	0.3	298.9	0.0	0.0	0.1	225.2
05-Apr-13	24.0		Called PIT to come out and troubleshoot the fluid gun. Testers having trouble moving fluid as their lines are freezing up. Working through it. Increased PCP rpm to 100	3.5			10		60	30								*50.0*	*/0/*	*0.0*		*84*	**4.61**	185.3	**1.10**	*30.0*	98.7	86.6			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-Apr-13	24.0		Well started to die off this morning while flowing to testers. PIT onsite and troubleshooted the fluid gun. Fluid had got into gun and froze up so it couldn't fire a shot. Cleaned out. Battery had died, replaced and got working again. Swung well back to our tank at 11:30. Testers steamed and sucked out lines and their P-tank. Shipped out 6m3 oil/water out with vac truck to Tervita P.River (Ticket 1572). Slowed PCP rpm to 80. Fluid level rising so trying to get it to grab prime again. Think we pumped the well off this morning.	2			8		50	60					721			*gas*				*83*	**4.46**	179.2	**1.10**	*28.5*	96.6	82.6	2.1	3.9	**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-Apr-13	14.5	Other	Well still not making any fluid. Shut off PCP at 14:30 to allow fluid level to rise more. Think PCP is gas locked. Shipped 6m3 of emulsion to Tervita H.River (Ticket 3080)	1.5			8		50	50					674			*gas*				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4	1.8	4.2	**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-Apr-13	6.0	Pump Failure	Restarted PCP and ran for 6 hours. Still no fluid to surface. Shutdown. Brought in pressure truck and pulled 5m3 from tank and flushed down the casing. Left PCP down for the night. Baker out to take samples. Tank oil cut came back at 1.6%bs&w. Tank had 4 days of settling time. will continue to monitor.	0			0		50	50					602			*gas*				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-Apr-13	0.0	Pump Failure	no check.												590			*gas*				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-Apr-13	4.0	Pump Failure	Tried to run PCP again. Torque really low on startup. Stayed below 300ft/lbs. Ran for 4 hours. No fluid to surface. Torque running at about 275ft/lbs. shut back down. No backspin on shutdown.	0			0		50	50					574			*gas*				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-Apr-13	0.0	Pump Failure																					**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-Apr-13	0.0	Pump Failure																					**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-Apr-13	0.0	Pump Failure																					**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-Apr-13	0.0	Pump Failure																					**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-Apr-13	7.5	Pump Failure	Restarted PCP at 16:30. Will run overnight to see if any change. Changed oil in generator 4116hrs	0			0		50	50					461			*gas*					**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-Apr-13	24.0		Still no fluid produced and no change in torque. Increased speed to 110rpm. Will run overnight. If still no change will shut down.	0			0		50	50					470			*gas*				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-Apr-13	17.0	Pump Failure	Shut down PCP. Still no fluid production. Had good backspin on shutdown.	0			0		30	50					443			*gas*				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-Apr-13	0.0	Pump Failure													448							*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-Apr-13	14.0		PIT onsite. Put 2 bottles of N2 down the casing to try and pressure it up. Able to bring the pressure up to 320kPa. Pressure pushed fluid level down by 50m. Restarted PCP and set speed to 80rpm. Will let run overnight. Removed fluid gun from DP1 well.	0			0		40	320					492			*gas*				*83*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
20-Apr-13	11.0	Pump Failure	Well still not making fluid. Shut back down. Will need service rig.	0			0		20	310								*gas*				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-Apr-13	0.0	Pump Failure																				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-Apr-13	0.0	Pump Failure																				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-Apr-13	0.0	Pump Failure																				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-Apr-13	0.0	Pump Failure																				*84*	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2

1	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	& sand m3	m3	m3	m3	m3	%	m3	m3								
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8			0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
25-Apr-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
26-Apr-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
27-Apr-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
28-Apr-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
29-Apr-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
30-Apr-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
01-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
02-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
03-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
04-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
05-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-May-13	**0.0**	Pump Failure																				84	**4.31**	173.2	**1.10**	*26.5*	94.8	78.4			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
20-May-13	**0.0**	Pump Failure	Equalized tank 2 into tank 1 to make more room.																			84	**4.92**	197.7	**1.98**	*19.9*	94.8	102.9		-24.5	**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-May-13	**0.0**	Pump Failure																				84	**4.92**	197.7	**1.98**	*19.9*	94.8	102.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-May-13	**0.0**	Pump Failure																				84	**4.92**	197.7	**1.98**	*19.9*	94.8	102.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-May-13	**0.0**	Pump Failure																				84	**4.92**	197.7	**1.98**	*19.9*	94.8	102.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-May-13	**0.0**	Pump Failure																				84	**4.92**	197.7	**1.98**	*19.9*	94.8	102.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
25-May-13	**0.0**	Pump Failure																				84	**4.92**	197.7	**1.98**	*19.9*	94.8	102.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
26-May-13	**0.0**	Pump Failure																				84	**4.92**	197.7	**1.98**	*19.9*	94.8	102.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
27-May-13	**0.0**	Pump Failure																				84	**4.92**	197.7	**1.98**	*19.9*	94.8	102.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
28-May-13	**0.0**	Pump Failure																				84	**4.92**	197.7	**1.98**	*19.9*	94.8	102.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
29-May-13	**0.0**	Pump Failure	Shipped out 45m3 of water from tank. Changed oil in generator 5168hrs.																			84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9		45.0	**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
30-May-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
31-May-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
01-Jun-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
02-Jun-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
03-Jun-13	**0.0**	Pump Failure	Alternator on generator quit. Generator is down. Ordered new one. Will change in the morning.																			84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
04-Jun-13	**0.0**	Pump Failure	Changed out alternator on generator. Restarted and all working properly																			84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
05-Jun-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-Jun-13	**0.0**	Pump Failure	Alternator on generator quit again. Generator is down. Called Brittania to come out and troubleshoot. Will be out Saturday morning to repair.																			84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-Jun-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-Jun-13	**0.0**	Pump Failure	Brittania onsite and repaired generator. Restarted and all back to normal. Serviced the engine.																			84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-Jun-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-Jun-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-Jun-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-Jun-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-Jun-13	**0.0**	Pump Failure																				84	**3.80**	152.7	**1.17**	*10.2*	94.8	57.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-Jun-13	**0.0**	Pump Failure	Equlaized water from tank 2 into tank 1 (53m3)																		-53.0	84	**5.12**	205.7	**2.32**	*15.8*	94.8	110.9		-53.0	**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-Jun-13	**0.0**	Pump Failure																				84	**5.12**	205.7	**2.32**	*15.8*	94.8	110.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-Jun-13	**0.0**	Pump Failure																				84	**5.12**	205.7	**2.32**	*15.8*	94.8	110.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-Jun-13	**0.0**	Pump Failure																				84	**5.12**	205.7	**2.32**	*15.8*	94.8	110.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-Jun-13	**0.0**	Pump Failure																				84	**5.12**	205.7	**2.32**	*15.8*	94.8	110.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-Jun-13	**0.0**	Pump Failure	Shipped out load of water to Newalta, ticket 31452																		30.0	84	**4.37**	175.7	**1.60**	*14.9*	94.8	80.9		30.0	**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
20-Jun-13	**0.0**	Pump Failure																				84	**4.37**	175.7	**1.60**	*14.9*	94.8	80.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-Jun-13	**0.0**	Pump Failure	Shipped out load of water to Newalta, ticket 31455																		32.0	84	**3.58**	143.7	**0.95**	*10.2*	94.8	48.9		32.0	**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-Jun-13	**0.0**	Pump Failure																				84	**3.58**	143.7	**0.95**	*10.2*	94.8	48.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-Jun-13	**0.0**	Pump Failure																				84	**3.58**	143.7	**0.95**	*10.2*	94.8	48.9			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-Jun-13	**0.0**	Pump Failure	Shipped out 2 loads of oil to Tervita (ticket numbers: 31375, 31458). Aprox. cuts were 8%.										6	300	68.0	50.0	5000					84	**1.89**	75.7	**0.95**	*12.6*	32.8	42.9	62.0	6.0	**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
25-Jun-13	**0.0**	Pump Failure	Shipped out load of oil (to Tervita ticket #31459). Truck loaded till sucking air then topped off of tank 2. Cut came back really wet as tank 2 bottoms were wet.												32.0							84	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5	23.5	8.5	**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
26-Jun-13	**0.0**	Pump Failure																				84	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
27-Jun-13	**0.0**	Pump Failure																				84	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
28-Jun-13	**0.0**	Pump Failure																				84	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
29-Jun-13	**0.0**	Pump Failure																				84	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
30-Jun-13	**0.0**	Pump Failure																				84	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
01-Jul-13	**0.0**	Pump Failure																				84	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
02-Jul-13	**0.0**	Pump Failure																				84	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
03-Jul-13	**0.0**	Pump Failure																				84	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2

1	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Recovery	Unrecovered	Production		Recovery	Unrecovered	Production	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3							
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8			0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
04-Jul-13	**0.0**	Pump Failure																				*84*	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
05-Jul-13	**0.0**	Pump Failure																				*84*	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-Jul-13	**0.0**	Pump Failure																				*84*	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-Jul-13	**0.0**	Pump Failure																				*84*	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-Jul-13	**0.0**	Pump Failure																				*84*	**1.09**	43.8	**0.83**	*11.0*	9.3	34.5			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-Jul-13	**0.0**	Pump Failure	Shipped out load of emulsion (28m3 from DP1, 5m3 from DP2) to Newalta. Ticket# 31382																			*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8	9.3	18.7	**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-Jul-13	**0.0**	Pump Failure																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
20-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
25-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
26-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
27-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
28-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
29-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
30-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
31-Jul-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
01-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
02-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
03-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
04-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
05-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
20-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
25-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
26-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
27-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
28-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
29-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
30-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
31-Aug-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
01-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
02-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
03-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
04-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
05-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2

1	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3							
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8		0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
20-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
25-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
26-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
27-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
28-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
29-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
30-Sep-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
01-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
02-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
03-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
04-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
05-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
20-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
25-Oct-13	**0.0**	Shut in																				*84*	**0.39**	15.8	**0.00**	*100.0*	0.0	15.8			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
26-Oct-13	**0.0**	Shut in	Shipped out remaining produced water to Newalta and cleaned tank. Tickets 2757, 2758, 2756 (only 15.8m3 produced volumes, the rest are fresh water brought to site for tanks clean outs)																			*84*	**0.00**	0.0	**0.00**	*100.0*	0.0	0.0		15.8	**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
27-Oct-13	**0.0**	Shut in																				*84*	**0.00**	0.0	**0.00**	*100.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
28-Oct-13	**0.0**	Shut in																				*84*	**0.00**	0.0	**0.00**	*100.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
29-Oct-13	**0.0**	Shut in																				*84*	**0.00**	0.0	**0.00**	*100.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
30-Oct-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**	*100.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
31-Oct-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**	*100.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
01-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
02-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
03-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
04-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
05-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
20-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
25-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
26-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
27-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
28-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
29-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
30-Nov-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
01-Dec-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
02-Dec-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
03-Dec-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
04-Dec-13	**0.0**	Shut in																					**0.00**	0.0	**0.00**		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2

1	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3							
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8		0.0	121.0	0.0	0.0	0.0	746.1		121.0		1659.8	
05-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-Dec-13	**0.0**	Shut in																					**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
20-Dec-13	**0.0**	Shut in				0	**0**																**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-Dec-13	**0.0**	Shut in				0	**0**																**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-Dec-13	**0.0**	Shut in				0	**0**																**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-Dec-13	**12.0**	Steaming Cycle	First steam to well	0		0	**0**	290	4500	4000													**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-Dec-13	**23.0**	Steaming Cycle	Shut down due to low propane	0		0	**0**	295	6800	5500													**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
25-Dec-13	**0.0**	Other	waiting on propane	0		0	**0**																**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
26-Dec-13	**0.0**	Other	propane delivered at 23:00	0		0	**0**																**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
27-Dec-13	**12.5**	Steaming Cycle	Restarted gen	0		0	**0**	290	6600	4800													**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
28-Dec-13	**24.0**	Steaming Cycle		0		0	**0**	295	7000	5900													**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
29-Dec-13	**24.0**	Steaming Cycle		0		0	**0**	290	7500	6100													**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
30-Dec-13	**9.0**	Steaming Cycle		0		0	**0**	300	6900	5900													**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
31-Dec-13	**8.0**	Steaming Cycle		0		0	**0**	302	7300	5800													**0.00**	0.0	0.00		0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
01-Jan-14	**24.0**	Steaming Cycle		15		15	**15**	300	7500	6200													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
02-Jan-14	**24.0**	Steaming Cycle		25		40	**40**	300	7400	6300													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
03-Jan-14	**23.0**	Steaming Cycle	Gasket on steam sep let go. SD gen	25		65	**65**	300	7200	6500													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
04-Jan-14	**0.0**	Steaming Cycle	Changed gasket on stm sep. Found wing valve on well tubing froze and split. Down for night			65	**65**																**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
05-Jan-14	**0.0**	Steaming Cycle	found valve in edmonton and had sent to site. Will change in the morning.			65	**65**																**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
06-Jan-14	**12.5**	Steaming Cycle	Changed valve on tubing. Restarted boiler.	20		85	**85**	300	7200	5200													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
07-Jan-14	**24.0**	Steaming Cycle		24		109	**109**	300	7500	6200													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
08-Jan-14	**23.5**	Steaming Cycle	boiler trip	24		133	**133**	300	7500	6400													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
09-Jan-14	**23.0**	Steaming Cycle	boiler trip	24		157	**157**	300	7500	6400													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
10-Jan-14	**24.0**	Steaming Cycle		25		182	**182**	300	7500	5200													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
11-Jan-14	**24.0**	Steaming Cycle		25		207	**207**	300	7500	6200													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
12-Jan-14	**5.0**	Steaming Cycle	Gasket on steam seperator let go. SD steam gen. Changed out gasket. Left boiler down for the night as we are modifying steam header in the morning and woud need to shut down again.	10		217	**217**	300	7500	6000													**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
13-Jan-14	**7.8**	Steaming Cycle	Changed out steam header spool at wellhead. Was not suported properly and could not drain. NCOS built new one. Restarted steam to well.	16		233	**233**	300	7500	6100	1500												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
14-Jan-14	**24.0**	Steaming Cycle	Changed out the TI on the well. Checked it and it was not reading properly. Was waiting on new part	24		257	**257**	230	7500	6200	2200												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
15-Jan-14	**22.0**	Steaming Cycle	Shut down steam gen due to low propane tank level. The truck was delayed because of bad road conditions. Supposed to be here overnight.	24		281	**281**	230	7500	6800	3200												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
16-Jan-14	**20.0**	Steaming Cycle	propane delivered. Started back up and put steam back to well.	25		306	**306**	230	7500	6300	2300												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
17-Jan-14	**24.0**	Steaming Cycle		26		332	**332**	220	7500	6700	2400												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
18-Jan-14	**17.0**	Steaming Cycle	Had to shut down boiler for some maintenance. Changed out leaking check valve on the steam header, wired in fire eye on steam generator and installed new stack o2 sensor.	25		357	**357**	230	7500	6300	2300												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
19-Jan-14	**24.0**	Steaming Cycle		30		387	**387**	225	7500	6300	2300												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
20-Jan-14	**24.0**	Steaming Cycle		30		417	**417**	230	7500	6400	2400												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
21-Jan-14	**24.0**	Steaming Cycle		30		447	**447**	230	7500	6700	2300												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
22-Jan-14	**15.0**	Steaming Cycle	Shut down gen. Programmer onsite. Tested remaining shutdowns and finished the programming on the gen plc. Citric acid washed the softeners due to iron fouling.	18		465	**465**	220	7500	6100	2100												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
23-Jan-14	**24.0**	Steaming Cycle		30		495	**495**	240	7500	6500	2000												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	298.9	0.0	0.0	0.0	225.2
24-Jan-14	**12.0**	Steaming Cycle	gasket on steam seperator leaking. Shut down and had crew come out and replace.	19		514	**514**	220	7500	6500	2000												**0.00**	0.0	0.00	*0.0*	0.0	0.0	0.2		**0.2**	0.2	0.0					0.0	0.0	0.2	299.1	0.0	0.0	0.0	225.2
25-Jan-14	**24.0**	Steaming Cycle		32		546	**546**	230	7500	6500	2000												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	299.1	0.0	0.0	0.0	225.2
26-Jan-14	**15.0**	Steaming Cycle	lost power to site. Alternator belt on generator blew. Replaced and started back up.	17		563	**563**	230	7500	6500	2400												**0.00**	0.0	0.00	*0.0*	0.0	0.0	1.4		**1.4**	1.4	0.0					0.0	0.0	1.4	300.5	0.0	0.0	0.0	225.2
27-Jan-14	**24.0**	Steaming Cycle		34		597	**597**	225	7500	6600	2600												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	300.5	0.0	0.0	0.0	225.2
28-Jan-14	**24.0**	Steaming Cycle		34		631	**631**	230	7500	6600	2600												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	300.5	0.0	0.0	0.0	225.2
29-Jan-14	**20.0**	Steaming Cycle	Tied in rig tank to long string on DP1. Opened up and started to flow back. Casing pressure coming down and well taking more steam flow. Breaker on feedwater pump failed at 20:00. would not reset. Boiler down for the night waiting on replacement.	46.5	11.2	666	**666**	210	6800	5800	1000												**0.00**	0.0	0.00	*0.0*	0.0	0.0	14.8		**14.8**	14.8	0.0					0.0	0.0	14.8	315.3	0.0	0.0	0.0	225.2
30-Jan-14	**10.0**	Steaming Cycle	Replaced the breaker on the feedwater pump and restarted boiler. Steam back to well.	42	16.9	691	**691**	200	7200	5700	200												**0.00**	0.0	0.00	*0.0*	0.0	0.0	9.1		**9.1**	9.1	0.0					0.0	0.0	9.1	324.4	0.0	0.0	0.0	225.2
31-Jan-14	**24.0**	Steaming Cycle	All flowing well. Downhole temps coming up.	40.5	99.5	632	**632**	210	7000	5800	800												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
01-Feb-14	**24.0**	Steaming Cycle		65.1	51	14	**647**	200	5500	5500	700												**0.00**	0.0	0.00	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2

1	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa			m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8		0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
02-Feb-14	**24.0**	Steaming Cycle	Cut back on the long string vent a bit.	57	102	-31	602	210	6000	5800	800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
03-Feb-14	**13.0**	Steaming Cycle	Shut in steam to well at 13:00 and cooled boiler. Having trouble with feedwater pump flow. Millwright coming to investigate in the morning. Rig tank shut in.	28	22	-25	608	200	6500	5800	1200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
04-Feb-14	**0.0**	Steaming Cycle	Millwright tore apart the FW pump. Found no major issues. Meters calibrated. Culigan tech onsite to check through the softening skid. Restarted gen and tried to start steam to well. Wellhead frozen. Ordered steamer. Thawing	0	15	-40	593	205	7000	6000	200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
05-Feb-14	**14.0**	Steaming Cycle	Got steam to well at midnight. Ran untill 13:00. FW flow still very eratic. Shut down and still troubleshooting	42		2	635	220	7200	7000	3000												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
06-Feb-14	**0.0**	Steaming Cycle	Found a check valve on FW line not holding properly and needing to be serviced. Pulled line off and welder repaired.	0		2	635	0	6000	4000	100												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
07-Feb-14	**0.0**	Steaming Cycle	Tried firing boiler all day. Would not get above 4000kPa and then would trip on low flow. Calibrated meters, proved flowlines, tested pressures and tested PSV's. Could not isolate the problem.	0		2	635	0	4500	4000	100												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
08-Feb-14	**10.0**	Steaming Cycle	Continue to troubleshoot problems with boiler. Ran out of options to try. Changed out flow meter with spare and problem fixed. Meter would calibrate fine but when put into service would become eratic. Instrument tech had tested it and calibrated it and could not find a problem with it but when changed out the problem fixed. Restarted boiler and put steam back to the well at 14:00. Will let well stabilize overnight and pressure up before opening the long string vent.	27.3		29	662	225	7300	6000	200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
09-Feb-14	**23.0**	Steaming Cycle	Boiler running much better. Tripped once. Had trouble with a switch reseting. Back online	100	72	57	690	220	6000	5300	800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
10-Feb-14	**24.0**	Steaming Cycle	Starting to cut back on vent from long string. Well taking steam better and temps coming up.	70	77	50	683	220	6800	5500	2000												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
11-Feb-14	**24.0**	Steaming Cycle	All flowing well. Downhole temps coming up.	91	89	52	685	220	6500	5500	2200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
12-Feb-14	**24.0**	Steaming Cycle	All flowing well. Cut back on rig tank vent some more.	93	61	84	717	230	7000	6700	2200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
13-Feb-14	**24.0**	Steaming Cycle	Shut the rig tank vent at 12:00. Well pressured up slowly throughout the rest of the day and steam injection dropped. Will let be for 24 hours and see where it settles.	105	29	160	793	7,500	7000	2200	2200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
14-Feb-14	**24.0**	Steaming Cycle	Opened up the rig tank vent a bit. Steam injection had dropped off. Increased boiler pressure to 8000kPa.	80	20	220	853	7,800	7500	3300	3300												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
15-Feb-14	**24.0**	Steaming Cycle	Changed out TI on DP1 steam line.	113	21	312	945	7,900	7700	3200	3200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
16-Feb-14	**24.0**	Steaming Cycle	Cut back on rig tank vent some more.	112	19	405	1038	7,900	7800	3200	3200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
17-Feb-14	**24.0**	Steaming Cycle	Put DP2 on steam. Flow estimated. Increased boiler pressure to 8300kPa.	80	19	466	1099	8,000	7800	3200													**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
18-Feb-14	**24.0**	Steaming Cycle	Flow estimated. Increased boiler pressure to 8500kPa.	60	25	501	1134	8,200	8000	3200													**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
19-Feb-14	**24.0**	Steaming Cycle	Shut in rig tank vent from long string. Well taking steam well. Flow estimated.	60	21	540	1173	300	8200	7100	3000												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
20-Feb-14	**24.0**	Steaming Cycle	Flow estimated.	60		600	1233	300	8200	6800	2800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
21-Feb-14	**24.0**	Steaming Cycle	#4 thermocouple failed downhole. Had electrician troubleshoot and it is failed. Readings now are eratic. Flow estimated.	60		660	1293	300	8200	6800	2600												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
22-Feb-14	**24.0**	Steaming Cycle	Flow estimated.	60		720	1353	300	8000	6800	2800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
23-Feb-14	**24.0**	Steaming Cycle	Flow estimated.	60		780	1413	300	8000	6800	2800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
24-Feb-14	**24.0**	Steaming Cycle	Flow estimated. Cut back on the steam flow to DP2. It increased flow to DP1. Temps and pressures are coming up again.	60		840	1473	300	8000	6800	2800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
25-Feb-14	**24.0**	Steaming Cycle	Flow estimated.	60		900	1533	302	8100	6900	2900												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
26-Feb-14	**24.0**	Steaming Cycle	DP2 meter now working properly and the total steam flow meter is reading more accuratly. Can now calculate the steam flow to DP1.	54		954	1587	300	8200	6900	2800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
27-Feb-14	**24.0**	Steaming Cycle	All good	52		1006	1639	305	8200	6900	2900												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
28-Feb-14	**24.0**	Steaming Cycle	All good	45		1051	1684	305	8200	6700	2900												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
01-Mar-14	**24.0**	Steaming Cycle	All good	44		44	1728	305	8100	6700	2800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
02-Mar-14	**24.0**	Steaming Cycle	All good	40		84	1768	302	8000	6700	2700												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
03-Mar-14	**24.0**	Steaming Cycle	All good	41		125	1809	300	8000	6700	2900												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
04-Mar-14	**24.0**	Steaming Cycle	All good	35		160	1844	300	8000	6700	2900												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
05-Mar-14	**24.0**	Steaming Cycle	All good	37		197	1881	300	8000	7000	2900												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
06-Mar-14	**24.0**	Steaming Cycle	All good. Well pressures starting to climb.	37		234	1918	300	8200	7400	3200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
07-Mar-14	**24.0**	Steaming Cycle	All good	37		271	1955	300	8100	7800	3900												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
08-Mar-14	**24.0**	Steaming Cycle	All good	36		307	1991	300	8200	8000	4200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
09-Mar-14	**24.0**	Steaming Cycle	All good	35		342	2026	300	8200	8000	4200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
10-Mar-14	**24.0**	Steaming Cycle	All good	34		376	2060	300	8200	8000	4200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
11-Mar-14	**19.0**	Other	Boiler tripped and had trouble with restarting. Down for 5 hours. Restarted and back online.	39		415	2099	300	8000	7900	4000												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
12-Mar-14	**24.0**			35		450	2134	300	8000	7900	3800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
13-Mar-14	**13.0**	Power Failure	Shut down plant to service generator. Had issue with spark plug and needed cummins service tech to fix. Will be out tomorrow. Plant down until then.	25		475	2159	300	8000	7000	3200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
14-Mar-14	**1.0**	Power Failure	Cummins tech onsite. Repaired generator and finished service. Started boiler and started to warm up	2		477	2161	300	8000	7000	3200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2

[1]	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Recovery	Unrecovered	Production		Recovery	Unrecovered	Production	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	& sand m3	m3	m3	m3	m3	%	m3	m3								
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8			0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
15-Mar-14	**24.0**	Steaming Cycle	having trouble with steam meter. Flow estimated.	40		517	**2201**	300	8200	7000	3200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
16-Mar-14	**24.0**	Steaming Cycle	flow estimated.	40		557	**2241**	300	7900	7700	3500												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
17-Mar-14	**24.0**	Steaming Cycle	flow estimated	40		597	**2281**	300	8000	7500	2500												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
18-Mar-14	**24.0**	Steaming Cycle	flow estimated	40		637	**2321**	300	8000	7300	2500												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
19-Mar-14	**24.0**	Steaming Cycle	flow estimated	40		677	**2361**	300	8000	7500	2500												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
20-Mar-14	**24.0**	Steaming Cycle	flow estimated	40		717	**2401**	300	8000	7500	2500												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
21-Mar-14	**11.0**	Surface Equipment	Shut in steam to well. Steam leak at wellhead. Tried to tighten but no go. Will need to let wellhead cool overnight in order to change flange.	15		732	**2416**	300	200	6100	2000												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
22-Mar-14	**0.0**	Surface Equipment	Crew didnt show up for DP1. well still blocked in	0		732	**2416**	200	200	5500	2000												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
23-Mar-14	**13.0**		Flange changed out and DP1 put back on steam.	20		752	**2436**	300	7900	6600	3000												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
24-Mar-14	**16.5**	Power Failure	Shutdown Plant for generator repair. Cummins out to work on power generator. Restarted once complete.	20		772	**2456**	300	7700	6400	3500												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
25-Mar-14	**24.0**	Steaming Cycle	flow estimated	20		792	**2476**	300	8000	6800	2500												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
26-Mar-14	**24.0**	Steaming Cycle	flow estimated	20		812	**2496**	300	8000	6900	2300												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
27-Mar-14	**23.0**	Steaming Cycle	Cummins tech out. Switched power generators to a diesel unit supplied by cummins. They need to due an overhaul of the head on propane unit and it will be down for maybe a few weeks. flow estimated	18		830	**2514**	300	7900	7000	2600												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
28-Mar-14	**24.0**	Steaming Cycle	flow estimated	20		850	**2534**	300	7700	6900	2400												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
29-Mar-14	**24.0**	Steaming Cycle	flow estimated	20		870	**2554**	300	7700	6900	2200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
30-Mar-14	**19.0**	Surface Equipment	Boiler trips. flow estimated	15		885	**2569**	300	7600	6900	1800												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
31-Mar-14	**19.0**		Shut in steam to wells for 5 hours to fix a steam leak on header. Flow estimated	15		900	**2584**	300	7500	6900	1500												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
01-Apr-14	**24.0**	Steaming Cycle	flow estimated	30		30	**2614**	300	7800	6700	2400												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
02-Apr-14	**24.0**	Steaming Cycle	flow estimated	30		60	**2644**	300	7800	6900	2200												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
03-Apr-14	**24.0**	Steaming Cycle	flow estimated	30		90	**2674**	300	7800	6900	2300												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
04-Apr-14	**24.0**	Steaming Cycle	flow estimated	30		120	**2704**	300	7800	6800	2250												**0.00**	0.0	**0.00**	*0.0*	0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
05-Apr-14	**24.0**	Steaming Cycle	flow estimated	30		150	**2734**	300	7800	6800	2250													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
06-Apr-14	**24.0**	Steaming Cycle	flow estimated	30		180	**2764**	300	7800	6800	2250													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
07-Apr-14	**20.0**	Surface Equipment	Boiler tripping on low gas pressure. Adjusted settings. Back up and running. flow estimated	25		205	**2789**	300	7800	6900	2250													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
08-Apr-14	**11.5**	Surface Equipment	Boiler still tripping on low gas pressure. Trouble with propane vaporizers. Superior propane tech to be out in the am. Boiler down till then. flow estimated	15		220	**2804**	300	7750	6800	2250													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
09-Apr-14	**6.0**	Surface Equipment	Superior tech repaired the vaporizer. Restarted gen and steam back to the wells. flow estimated	15		235	**2819**	290	3800	6000	1700													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
10-Apr-14	**11.0**	Surface Equipment	Boiler feedwater pump stuffing box failed. Boiler down until repaired. Trying to find replacment. flow estimated	10		245	**2829**	295	4000	6100	1700													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
11-Apr-14	**0.0**		Awaiting Feedwater pump from Kerrobert	0		245	**2829**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
12-Apr-14	**0.0**		Awaiting Feedwater pump from Kerrobert	0		245	**2829**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
13-Apr-14	**0.0**		Awaiting Feedwater pump from Kerrobert	0		245	**2829**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
14-Apr-14	**0.0**		Feedwater pump arrived onsite. Starting to swap pumps.	0		245	**2829**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
15-Apr-14	**0.0**		Feedwater pump installed. Tried to startup but the programming on the softening skid plc had faulted from being down. Programmer called to be onsite in the morning.	0		245	**2829**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
16-Apr-14	**13.0**	Surface Equipment	Programmer fixed fault in programming. Restarted boiler and warmed up. Steam back to wells at 11:00. Slowly increasing flows.	20		265	**2849**	290	6300	5600	1200													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
17-Apr-14	**24.0**	Steaming Cycle	flow estimated.	25		290	**2874**	295	7000	6000	1700													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
18-Apr-14	**24.0**	Steaming Cycle	flow estimated.	40		330	**2914**	300	7200	6200	2000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
19-Apr-14	**23.0**	Steaming Cycle	boiler trip flow estimated.	40		370	**2954**	300	7200	6200	2000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
20-Apr-14	**24.0**	Steaming Cycle	flow estimated.	40		410	**2994**	300	7400	6300	2200													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
21-Apr-14	**24.0**	Steaming Cycle	flow estimated.	40		450	**3034**	300	7500	6400	2400													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
22-Apr-14	**2.0**	Other	Shut down boiler as propane level ran low. Waiting on load from superior	45		495	**3079**	300	7600	6400	2400													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
23-Apr-14	**0.0**	Other	waiting on propane			495	**3079**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
24-Apr-14	**7.0**	Other	Propane delivered. Restarted the boiler and steam back to the wells at 17:00.			495	**3079**	290	6600	5700	1600													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
25-Apr-14	**24.0**	Steaming Cycle	adjusted settings on flow meter. Steam flow to DP1 seems more accurate.	55		550	**3134**	295	7200	6200	1700													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
26-Apr-14	**24.0**	Steaming Cycle		54		604	**3188**	295	7200	6300	2200													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
27-Apr-14	**24.0**	Steaming Cycle		53		657	**3241**	300	7300	6400	2400													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
28-Apr-14	**24.0**	Steaming Cycle		55		712	**3296**	300	7400	6500	2500													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
29-Apr-14	**21.0**	Steaming Cycle	Boiler down for 3 hours. Load of propane was late and ran out. Started back up after load delivered	58		770	**3354**	300	7200	6300	2400													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
30-Apr-14	**24.0**	Steaming Cycle		64		834	**3418**	300	7500	6400	2500													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
01-May-14	**24.0**	Steaming Cycle		56		56	**3474**	300	7600	6500	2500													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
02-May-14	**24.0**	Steaming Cycle		53		109	**3527**	300	7600	6500	2600													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
03-May-14	**24.0**	Steaming Cycle		55		164	**3582**	300	7700	6500	2600													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
04-May-14	**24.0**	Steaming Cycle		53		217	**3635**	300	7600	6500	2600													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
05-May-14	**24.0**	Steaming Cycle		54		271	**3689**	300	7600	6500	2700													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
06-May-14	**24.0**	Steaming Cycle		53		324	**3742**	300	7600	6500	2700													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
07-May-14	**24.0**	Steaming Cycle		60		384	**3802**	300	7500	6600	2500													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
08-May-14	**19.0**	Steaming Cycle	Gasket on steam seperator started to leak. Shut down boiler and will change gasket in the morning.	20		404	**3822**	300	7700	6700	2800													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
09-May-14	**14.0**	Steaming Cycle	Steam sep gasket changed out and boiler restarted.	51		455	**3873**	290	6500	5800	1700													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
10-May-14	**24.0**	Steaming Cycle		61		516	**3934**	300	7400	6500	2600													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
11-May-14	**24.0**	Steaming Cycle		57		573	**3991**	300	7500	6500	2600													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2

[1]	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)				Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m	%	m3	m3								
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8			0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
12-May-14	**24.0**	Steaming Cycle		55		628	**4046**	300	7600	6600	2800													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
13-May-14	**24.0**	Steaming Cycle		55		683	**4101**	300	7700	6600	2800													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
14-May-14	**20.0**		Shut down to repair leak on FW pump and fix lubricator	41		724	**4142**	295	7300	6400	2400													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
15-May-14	**24.0**	Steaming Cycle		49		773	**4191**	300	7700	6500	2600													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
16-May-14	**24.0**	Steaming Cycle		50		823	**4241**	300	7800	6600	2800													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
17-May-14	**24.0**	Steaming Cycle		51		874	**4292**	300	7800	6700	2800													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
18-May-14	**24.0**	Steaming Cycle		51		925	**4343**	300	7800	6700	3000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
19-May-14	**24.0**	Steaming Cycle		50		975	**4393**	300	7600	6800	3000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
20-May-14	**24.0**	Steaming Cycle		51		1026	**4444**	300	7700	6800	3000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
21-May-14	**24.0**	Steaming Cycle		49		1075	**4493**	300	7600	6600	2800													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
22-May-14	**24.0**	Steaming Cycle		50		1125	**4543**	300	7600	6800	3000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
23-May-14	**24.0**	Steaming Cycle		52		1177	**4595**	300	7600	6800	3100													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
24-May-14	**24.0**	Steaming Cycle		51		1228	**4646**	300	7800	6800	3000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
25-May-14	**24.0**	Steaming Cycle		52		1280	**4698**	300	7800	6700	3000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
26-May-14	**24.0**	Steaming Cycle		47		1327	**4745**	300	7800	6800	3200													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
27-May-14	**24.0**	Steaming Cycle		54		1381	**4799**	300	7800	6600	2800													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
28-May-14	**24.0**	Steaming Cycle		54		1435	**4853**	300	7800	6600	3000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
29-May-14	**24.0**	Steaming Cycle		56		1491	**4909**	300	7800	6600	2900													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
30-May-14	**24.0**	Steaming Cycle		57		1548	**4966**	300	7800	6800	3000													0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
31-May-14	**7.0**	Other	Alternator on generator at 4-20 feeding the water well failed. Raw tank level dropped to much. Shut down and cooled the boiler. Raplaced the alternator on days but left boiler down as planned for well startups.	15		1563	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
01-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
02-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
03-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
04-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
05-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
06-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
07-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
08-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
09-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
10-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
11-Jun-14	**0.0**					0	**4981**																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
12-Jun-14	**12.0**	Other	Started DP1 at 2.8 strokes per minute. Fluid to surface. All water. Production from flow meter 13.82m3			0	**4981**	46	600	0	0		2.8			13.8		*100.0*	*/0/*	*0.0*			**0.00**	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	225.2
13-Jun-14	**20.0**		DP1 down couple times through the day on Plant issues but flowing good. Water with trace of oil.			0	**4981**	78	400	100	0		3			33.8	27	*100.0*	*/0/*	*0.0*			**0.30**	12.1		*100.0*	0.0	12.1			**12.1**	0.0	12.1					0.0	0.0	0.0	324.4	0.0	0.0	12.1	237.3
14-Jun-14	**14.0**		Incinerator tripped overnight. Could not restart. Wells down for the night. Restarted incinerator in morning and restarted wells. Gas built up on DP1 casing now. Starting to bleed down slow. Increased SPM to 4.5			0	**4981**	66	400	3500	300		4.5			27.5	27	*100.0*	*/0/*	*0.0*			**1.50**	60.3		*100.0*	0.0	60.3			**48.2**	0.0	48.2					0.0	0.0	0.0	324.4	0.0	0.0	48.2	285.5
15-Jun-14	**24.0**		Bleeding down pressure on DP1 casing. Well flowing good. Still mostly water			0	**4981**	77	400	1750	100		4.28			50.0	17	*100.0*	*/0/*	*0.0*		*35*	**3.20**	128.6		*100.0*	0.0	128.6			**68.3**	0.0	68.3					0.0	0.0	0.0	324.4	0.0	0.0	68.3	353.8
16-Jun-14	**24.0**		Flowing good.			0	**4981**	74	400	1800	0		4.61			48.5	21	*100.0*	*/0/*	*0.0*		*39*	**3.90**	156.7		*100.0*	0.0	156.7	40.0		**68.1**	0.0	68.1					0.0	0.0	0.0	324.4	0.0	0.0	68.1	421.9
17-Jun-14	**23.5**		Flowing good. Casing gas bled down. Increased well SPM to 5.5. Tripped once on incinerator.			0	**4981**	77	350	400	0		5.5			65.6	20	*99.0*	*/0/*	*0.0*	157	*33*	**3.55**	142.7		*100.0*	0.0	142.7	80.0		**65.9**	0.0	65.9					0.0	0.0	0.0	324.4	0.0	0.0	65.9	487.8
18-Jun-14	**19.0**		Seeing something strange with the wells overnight. Be flowing good and then just stop producing fluid for a couple hours and then start making fluid again. Slowed the SPM to 5 to see if it makes a difference.			0	**4981**	77	450	400	0		5			47.4	0	*99.0*	*/0/*	*0.0*	198	*35*	**4.10**	164.8		*100.0*	0.0	164.8	40.0		**62.1**	0.0	62.1					0.0	0.0	0.0	324.4	0.0	0.0	62.1	549.9
19-Jun-14	**9.0**		Well shut down on issue with hydraulic driver. Trouble with the proximity sensors on the jack. Weatherford tech coming to troublshoot.			0	**4981**	27	400	400	0		0			26.3	0	*99.0*	*/0/*	*0.0*	198	*40*	**4.90**	196.9		*100.0*	0.0	196.9			**32.1**	0.0	32.1					0.0	0.0	0.0	324.4	0.0	0.0	32.1	582.0
20-Jun-14	**13.0**		Weatherford tech fixed wiring issue on well driver. Tried to restart. Packing leaking on DP1 stuffing box. Tried to tighten but still leaking. Tech from Nelgar coming to investigate. Well down.			0	**4981**	55	400	400	0		4.61			42.4	0	*99.0*	*/0/*	*0.0*	265	*41*	**5.20**	209.0		*100.0*	0.0	209.0	45.2		**57.3**	0.0	57.3					0.0	0.0	0.0	324.4	0.0	0.0	57.3	639.3
21-Jun-14	**0.0**		Well down			0	**4981**	50	400	600	0		0			0.0	0	*99.0*	*/0/*	*0.0*		*40*	**5.20**	209.0		*100.0*	0.0	209.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	639.3
22-Jun-14	**0.0**		Changed packing on DP1. Tried to start well pump but issue with jack not picking up the proximity sensors again. Weatherford tech called to investigate.			0	**4981**	29	400	400	0		0			0.0	0	*99.0*	*/0/*	*0.0*		*45*	**4.21**	169.0		*100.0*	0.0	169.0	40.0		**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	639.3
23-Jun-14	**0.0**		Weatherford tech onsite troubleshooting well driver. Unable to fix. Coming back tomorrow with more parts			0	**4981**	26	400	400	0		0			0.0	0	*0.0*	*/0/*	*0.0*		*41*	**4.21**	169.0		*100.0*	0.0	169.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	639.3
24-Jun-14	**0.0**		Weatherford tech still working on driver. Replaced a bunch of stuff. Still couldnt fix. Back tomorrow with more people and parts.			0	**4981**	25	400	400	0		0			0.0	0	*0.0*	*/0/*	*0.0*		*45*	**4.21**	169.0		*100.0*	0.0	169.0			**0.0**	0.0	0.0					0.0	0.0	0.0	324.4	0.0	0.0	0.0	639.3
25-Jun-14	**10.0**		Weatherford crew onsite. Replaced entire control panel on driver. DP1 back online and working properly. Letting things warm up and will speed up.			0	**4981**	42	350	350	0		5					*100.0*	*/0/*	*0.0*		*42*	**4.80**	192.9		*100.0*	0.0	192.9			**23.9**	0.0	23.9					0.0	0.0	0.0	324.4	0.0	0.0	23.9	663.2
26-Jun-14	**24.0**					0	**4981**	66	400	150	0		4.61					*100.0*	*/0/*	*0.0*		*45*	**5.20**	209.0		*100.0*	0.0	209.0	39.1		**55.2**	0.0	55.2					0.0	0.0	0.0	324.4	0.0	0.0	55.2	718.4
27-Jun-14	**24.0**		Seperator bypassed and well pumping direct to tank. Having trouble with level displacers. New ones ordered for oil service.			0	**4981**	63	100	100	0		4.61					*95.0*	*/0/*	*0.0*		*45*	**4.50**	180.8		*100.0*	0.0	180.8	82.1		**54.0**	0.0	54.0					0.0	0.0	0.0	324.4	0.0	0.0	54.0	772.4
28-Jun-14	**24.0**					0	**4981**	60	100	100	0		4.61					*95.0*	*/0/*	*0.0*		*45*	**4.80**	192.9	**4.72**	*30.0*	2.3	190.6	40.4		**52.5**	2.3	50.2					0.0	0.0	2.3	326.7	0.0	0.0	50.2	822.6
29-Jun-14	**24.0**					0	**4981**	59	100	100	0		4.61					*95.0*	*/0/*	*0.0*		*42*	**5.10**	204.9	**4.94**	*30.0*	4.5	200.4	43.9		**56.0**	2.2	53.8					0.0	0.0	2.2	328.9	0.0	0.0	53.8	876.4
30-Jun-14	**24.0**		Well starting to slug higher oil cuts			0	**4981**	51	100	100	0		4.61					*60.0*	*/0/*	*0.0*		*54*	**4.40**	176.8	**3.80**	*30.0*	16.9	159.9	84.7		**56.6**	12.4	44.2					0.0	0.0	12.4	341.3	0.0	0.0	44.2	920.6
01-Jul-14	**24.0**					0	**4981**	58	100	100	0		4.61					*80.0*	*/0/*	*0.0*		*65*	**4.60**	184.9	**3.60**	*30.0*	28.1	156.8	40.0		**48.0**	11.2	36.8					0.0	0.0	11.2	352.5	0.0	0.0	36.8	957.4
02-Jul-14	**24.0**					0	**4981**	49	100	100	0		4.61					*60.0*	*/0/*	*0.0*	613	*70*	**4.70**	188.9	**3.30**	*30.0*	39.4	149.5	37.0		**41.0**	11.3	29.7					0.0	0.0	11.3	363.8	0.0	0.0	29.7	987.1

1	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)				Cum. Production	Net Water (m3)				Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8		0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
03-Jul-14	24.0		Champion took tank samples. Tanks sitting at 20% water. No emulsion.			0	4981	55	100	100	0		4.61					*80.0*	*/0/*	*2.0*		*74*	**3.90**	156.7	**2.95**	*30.0*	26.7	130.0	26.7	52.4	**47.0**	**14.0**	**33.0**					0.0	0.0	14.0	377.8	0.0	0.0	33.0	1020.1
04-Jul-14	24.0					0	4981	40	75	70	0		4.61					*80.0*	*/0/*	*0.0*		*78*	**4.70**	188.9	**3.25**	*30.0*	40.8	148.1			**32.1**	**14.1**	**18.0**					0.0	0.0	14.1	391.9	0.0	0.0	18.0	1038.1
05-Jul-14	24.0					0	4981	49	100	100	0		4.61					*30.0*	*/0/*	*0.0*		*80*	**5.70**	229.1	**3.85**	*30.0*	52.0	177.1			**40.2**	**11.2**	**29.0**					0.0	0.0	11.2	403.1	0.0	0.0	29.0	1067.1
06-Jul-14	14.0		Wells tripped overnight on vent stack high level in knockout. Sucked out and restarted.			0	4981	54	100	100	0		4.61					*80.0*	*/0/*	*0.0*		*80*	**5.40**	217.0	**3.20**	*30.0*	61.9	155.1		37.0	**24.9**	**9.9**	**15.0**					0.0	0.0	9.9	413.0	0.0	0.0	15.0	1082.1
07-Jul-14	24.0		Increased chemical rates to help tank treating. Champion took more samples.			0	4981	55	200	100	0		4.61					*60.0*	*/0/*	*0.0*	1000	*80*	**4.00**	160.7	**2.50**	*30.0*	42.2	118.5	30.5	56.4	**30.6**	**10.8**	**19.8**					0.0	0.0	10.8	423.8	0.0	0.0	19.8	1101.9
08-Jul-14	20.0		Purged out bubble tubes and got N2 hooked up.			0	4981	51	200	0	0	200	4.61		21.78			*50.0*	*/0/*	*0.0*		*84*	**4.40**	176.8	**2.50**	*30.0*	53.4	123.4			**16.1**	**11.2**	**4.9**					0.0	0.0	11.2	435.0	0.0	0.0	4.9	1106.8
09-Jul-14	6.0		Wells tripped overnight on high level in incinerator knockout. Problem with the switch. Pulled and cleaned. Restarted wells.			0	4981	57	200	0	0	200	4.61		21.78			*20.0*	*/0/*	*0.0*		*84*	**3.50**	140.6	**2.60**	*30.0*	25.3	115.3	31.6	8.4	**3.8**	**3.5**	**0.3**					0.0	0.0	3.5	438.5	0.0	0.0	0.3	1107.1
10-Jul-14	15.0		Wells tripped again overnight. Trouble with high level switch again on knockout. Instrument tech called to troubleshoot. Restartd wells.			0	4981	46	220	0	0	200	4.61		21.78			*80.0*	*/0/*	*0.0*		*85*	**3.80**	152.7	**2.80**	*25.0*	30.1	122.6			**12.1**	**4.8**	**7.3**					0.0	0.0	4.8	443.3	0.0	0.0	7.3	1114.4
11-Jul-14	24.0		Pulled manway on knockout vessel. The level switch had been installed on a nozzle with a pipe attached inside the vessel which was casuing the problems. Removed the internal piping and reinstalled switch. Working properly now. Moved the level control on the seperator from bridle to directly mounted to the vessel. Tried flowing through seperators. level control still not controlling properly. bypassed again and will talk with RJV again on monday.			0	4981	54	200	0	0	200	4.61		21.78			*50.0*	*/0/*	*0.0*		*80*	**4.30**	172.8	**3.00**	*25.0*	39.2	133.6			**20.1**	**9.1**	**11.0**					0.0	0.0	9.1	452.4	0.0	0.0	11.0	1125.4
12-Jul-14	24.0		Shipped 34m3 oil with Plains to Nippisi plant			0	4981	48	150	0	0	200	4.61		21.78			*50.0*	*/0/*	*0.0*		*80*	**4.00**	160.7	**3.20**	*25.0*	24.1	136.6	31.6	1.7	**21.2**	**16.5**	**4.7**					0.0	0.0	16.5	468.9	0.0	0.0	4.7	1130.1
13-Jul-14	24.0		Shipped load of oil with Plains.			0	4981	52	50	0	0	200	4.61		21.78			*20.0*	*/0/*	*0.0*		*80*	**2.75**	110.5	**2.20**	*25.0*	16.6	93.9	17.3	47.6	**14.7**	**9.8**	**4.9**					0.0	0.0	9.8	478.7	0.0	0.0	4.9	1135.0
14-Jul-14	24.0					0	4981	45	50	50	0	400	4.61		38.56			*50.0*	*/0/*	*0.0*		*80*	**3.30**	132.6	**2.60**	*10.0*	25.3	107.3			**22.1**	**8.7**	**13.4**					0.0	0.0	8.7	487.4	0.0	0.0	13.4	1148.4
15-Jul-14	24.0					0	4981	51	50	50	0	300	5.45		27.67			*45.0*	*/43/*	*1.0*		*84*	**3.35**	134.6	**2.50**	*10.0*	30.7	103.9		29.0	**31.0**	**5.4**	**25.6**					0.0	0.0	5.4	492.8	0.0	0.0	25.6	1174.0
16-Jul-14	24.0					0	4981	50	100	0	0	200	5.45		21.78			*45.0*	*/43/*	*1.0*	500	*82*	**3.90**	156.7	**2.89**	*10.0*	36.5	120.2			**22.1**	**5.8**	**16.3**					0.0	0.0	5.8	498.6	0.0	0.0	16.3	1190.3
17-Jul-14	24.0					0	4981	50	50	0	0	200	5.45		21.78			*70.0*	*/50/*	*1.0*		*80*	**4.35**	174.8	**3.01**	*25.0*	40.4	134.4			**18.1**	**3.9**	**14.2**					0.0	0.0	3.9	502.5	0.0	0.0	14.2	1204.5
18-Jul-14	24.0					0	4981	46	70	0	0	200	5.45		21.78			*40.0*	*/40/*	*0.1*		*80*	**4.30**	172.8	**2.80**	*25.0*	45.2	127.6		20.0	**18.0**	**4.8**	**13.2**					0.0	0.0	4.8	507.3	0.0	0.0	13.2	1217.7
19-Jul-14	24.0		Increased SPM to 6.			0	4981	42	80	0	0	200	6		21.78			*85.0*	*/80/*	*0.1*	455	*81*	**4.75**	190.9	**3.20**	*25.0*	46.7	144.2			**18.1**	**1.5**	**16.6**					0.0	0.0	1.5	508.8	0.0	0.0	16.6	1234.3
20-Jul-14	24.0					0	4981	45	35	0	0	200	6		21.78			*35.0*	*/30/*	*0.1*		*75*	**2.40**	96.4	**1.05**	*15.0*	46.1	50.3	7.3	107.9	**20.8**	**6.7**	**14.1**					0.0	0.0	6.7	515.5	0.0	0.0	14.1	1248.4
21-Jul-14	24.0					0	4981	46	40	0	0	100	6		10.89			*90.0*	*/85/*	*0.1*		*50*	**2.85**	114.5	**1.45**	*15.0*	47.8	66.7			**18.1**	**1.7**	**16.4**					0.0	0.0	1.7	517.2	0.0	0.0	16.4	1264.8
22-Jul-14	24.0		PIT onsite. Shot fluid levels. DP1 fluid level at 78 joints or roughly 740m. Slowed pump to 5SPM			0	4981	47	70	0	0	100	5		20			*90.0*	*/90/*	*0.1*		*38*	**3.20**	128.6	**1.65**	*20.0*	49.8	78.8			**14.1**	**2.0**	**12.1**					0.0	0.0	2.0	519.2	0.0	0.0	12.1	1276.9
23-Jul-14	24.0					0	4981	43	45	0	0	200	5		21.78			*85.0*	*/85/*	*0.1*		*38*	**1.80**	72.3	**0.70**	*30.0*	30.9	41.4	19.8	49.7	**13.2**	**0.9**	**12.3**					0.0	0.0	0.9	520.1	0.0	0.0	12.3	1289.2
24-Jul-14	24.0		Slowed Pump to 2spm.			0	4981	38	50	0	0	200	2		21.78			*75.0*	*/75/*	*0.1*		*40*	**2.00**	80.4	**0.83**	*30.0*	32.9	47.5			**8.0**	**2.0**	**6.0**					0.0	0.0	2.0	522.1	0.0	0.0	6.0	1295.2
25-Jul-14	24.0					0	4981	33	50	70	0	200	2		14.78			*50.0*	*/50/*	*0.1*	1600	*30*	**2.15**	86.4	**0.90**	*30.0*	35.2	51.2			**6.0**	**2.3**	**3.7**					0.0	0.0	2.3	524.4	0.0	0.0	3.7	1298.9
26-Jul-14	24.0					0	4981	38	50	50	0	200	3.6		16.78			*60.0*	*/55/*	*0.1*		*45*	**2.47**	99.3	**1.08**	*30.0*	39.1	60.2			**12.9**	**3.9**	**9.0**					0.0	0.0	3.9	528.3	0.0	0.0	9.0	1307.9
27-Jul-14	24.0		Increased pump to 3.5spm			0	4981	46	50	20	0	200	3.75		19.78			*50.0*	*/50/*	*0.1*	1500	*56*	**2.18**	87.6	**1.24**	*30.0*	26.4	61.2	19.5	4.7	**12.5**	**6.8**	**5.7**					0.0	0.0	6.8	535.1	0.0	0.0	5.7	1313.6
28-Jul-14	24.0		Loaded 10m3 water from tank 5200 down casing of well.			0	4981	45	50	10	0	300	3.75		31.67			*45.0*	*/40/*	*0.1*		*85*	**2.50**	100.5	**1.42**	*30.0*	30.4	70.1			**12.9**	**4.0**	**8.9**	10	*100.0*	10.0		0.0	0.0	4.0	539.1	8.9	1.1	0.0	1313.6
29-Jul-14	24.0					0	4981	44	100	0	0	200	3.5		21.78			*45.0*	*/45/*	*0.1*		*71*	**2.70**	108.5	**1.48**	*30.0*	34.3	74.2		9.0	**17.0**	**3.9**	**13.1**					0.0	0.0	3.9	543.0	1.1	0.0	12.0	1325.6
30-Jul-14	24.0					0	4981	43	100	0	0	200	3.52		21.78			*35.0*	*/30/*	*0.1*		*60*	**2.20**	88.4	**1.70**	*30.0*	14.1	74.3	27.4	6.8	**14.1**	**7.2**	**6.9**					0.0	0.0	7.2	550.2	0.0	0.0	6.9	1332.5
31-Jul-14	7.0		Dp1 well down on well jack issues. Weatehrford called to troubleshoot.			0	4981	26	0	0	0	200	0		21.78			*45.0*	*/45/*	*0.1*		*54*	**1.80**	72.3	**1.72**	*30.0*	2.3	70.0	14.6	8.1	**6.6**	**2.8**	**3.8**					0.0	0.0	2.8	553.0	0.0	0.0	3.8	1336.3
01-Aug-14	12.0		Weatherford repaired issue with sensor on jack and balanced N2 system for lifting. Well back online.			0	4981	41	100	0	0	200	3.75		21.78			*40.0*	*/40/*	*0.1*		*49*	**2.15**	86.4	**1.94**	*30.0*	5.9	80.5			**14.1**	**3.6**	**10.5**					0.0	0.0	3.6	556.6	0.0	0.0	10.5	1346.8
02-Aug-14	24.0					0	4981	43	100	0	0	200	3.75		21.78			*30.0*	*/29/*	*0.1*		*45*	**2.52**	101.3	**2.20**	*30.0*	9.0	92.3			**14.9**	**3.1**	**11.8**					0.0	0.0	3.1	559.7	0.0	0.0	11.8	1358.6
03-Aug-14	24.0					0	4981	42	100	0	0	200	3.75		21.78			*42.0*	*/42/*	*0.1*		*45*	**3.74**	150.3	**3.35**	*15.0*	13.3	137.0		-35.0	**14.0**	**4.3**	**9.7**					0.0	0.0	4.3	564.0	0.0	0.0	9.7	1368.3
04-Aug-14	24.0					0	4981	43	50	80	0	200	3.75		13.78			*60.0*	*/60/*	*0.1*		*40*	**2.40**	96.4	**1.90**	*15.0*	17.1	79.3		68.7	**14.9**	**3.8**	**11.1**					0.0	0.0	3.8	567.8	0.0	0.0	11.1	1379.4
05-Aug-14	24.0					0	4981	41	60	100	0	200	3.75		11.78			*60.0*	*/60/*	*0.1*		*41*	**2.40**	96.4	**1.80**	*15.0*	20.5	75.9		15.0	**15.0**	**3.4**	**11.6**					0.0	0.0	3.4	571.2	0.0	0.0	11.6	1391.0
06-Aug-14	22.0		Shut down well to service well driver engine.			0	4981	38	80	40	0	200	3.75		17.78			*99.0*	*/0/*	*0.0*		*32*	**1.80**	72.3	**1.10**	*15.0*	23.9	48.4		40.0	**15.9**	**3.4**	**12.5**					0.0	0.0	3.4	574.6	0.0	0.0	12.5	1403.5
07-Aug-14	24.0					0	4981	40	60	0	0	100	3.75		10.89			*90.0*	*/10/*	*0.1*	1700	*32*	**1.20**	48.2	**0.40**	*15.0*	27.3	20.9		40.0	**15.9**	**3.4**	**12.5**					0.0	0.0	3.4	578.0	0.0	0.0	12.5	1416.0
08-Aug-14	24.0					0	4981	35	30	10	0	150	3.75		15.33			*95.0*	*/5/*	*0.0*		*25*	**1.56**	62.7	**0.67**	*15.0*	30.4	32.3			**14.5**	**3.1**	**11.4**					0.0	0.0	3.1	581.1	0.0	0.0	11.4	1427.4
09-Aug-14	24.0					0	4981	37	80	40	0	200	3.75		17.78			*90.0*	*/90/*	*0.1*		*22*	**1.92**	77.2	**0.93**	*15.0*	33.8	43.4			**14.5**	**3.4**	**11.1**					0.0	0.0	3.4	584.5	0.0	0.0	11.1	1438.5
10-Aug-14	24.0					0	4981	38	100	50	0	200	3.75		16.78			*90.0*	*/80/*	*0.0*		*25*	**2.20**	88.4	**1.13**	*15.0*	36.5	51.9			**11.3**	**2.7**	**8.6**					0.0	0.0	2.7	587.2	0.0	0.0	8.6	1447.1
11-Aug-14	24.0					0	4981	39	70	0	0	200	3.75		21.78			*90.0*	*/85/*	*0.0*		*25*	**2.40**	96.4	**1.25**	*15.0*	39.3	57.1			**8.0**	**2.8**	**5.2**					0.0	0.0	2.8	590.0	0.0	0.0	5.2	1452.3
12-Aug-14	24.0					0	4981	38	100	20	0	100	3.75		8.89			*90.0*	*/85/*	*0.0*	1500	*28*	**2.80**	112.5	**1.60**	*15.0*	41.0	71.5			**16.1**	**1.7**	**14.4**					0.0	0.0	1.7	591.7	0.0	0.0	14.4	1466.7
13-Aug-14	24.0					0	4981	39	100	25	0	200	3.75		19.28			*95.0*	*/80/*	*0.0*		*40*	**3.10**	124.6	**1.85**	*15.0*	42.7	81.9			**12.1**	**1.7**	**10.4**					0.0	0.0	1.7	593.4	0.0	0.0	10.4	1477.1
14-Aug-14	24.0					0	4981	37	100	0	0	100	3.75		10.89			*98.0*	*/95/*	*0.1*		*42*	**3.40**	136.6	**2.10**	*15.0*	44.4	92.2			**12.1**	**1.7**	**10.4**					0.0	0.0	1.7	595.1	0.0	0.0	10.4	1487.5
15-Aug-14	24.0					0	4981	38	100	20	0	100	3.75		8.89			*99.0*	*/99/*	*0.1*		*48*	**3.60**	144.7	**2.25**	*15.0*	46.1	98.6			**8.0**	**1.7**	**6.3**					0.0	0.0	1.7	596.8	0.0	0.0	6.3	1493.8
16-Aug-14	24.0					0	4981	36	100	50	0	100	3.75		5.89			*75.0*	*/60/*	*0.1*	1200	*50*	**2.90**	116.5	**1.47**	*15.0*	48.8	67.7		40.0	**11.9**	**2.7**	**9.2**					0.0	0.0	2.7	599.5	0.0	0.0	9.2	1503.0
17-Aug-14	24.0					0	4981	37	50	50	0	300	4.28		27.67			*70.0*	*/70/*	*0.1*		*49*	**3.20**	128.6	**1.66**	*15.0*	52.6	76.0			**12.1**	**3.8**	**8.3**					0.0	0.0	3.8	603.3	0.0	0.0	8.3	1511.3
18-Aug-14	24.0					0	4981	34	50	50	0	200	4.28		16.78			*40.0*	*/40/*	*0.1*		*52*	**3.10**	124.6	**1.49**	*15.0*	55.0	69.6		15.0	**11.0**	**2.4**	**8.6**					0.0	0.0	2.4	605.7	0.0	0.0	8.6	1519.9
19-Aug-14	24.0					0	4981	34	50	30	0	300	29.67		29.67			*45.0*	*/45/*	*0.1*		*57*	**2.80**	112.5	**1.05**	*15.0*	59.8	52.7		20.0	**7.9**	**4.8**	**3.1**					0.0	0.0	4.8	610.5	0.0	0.0	3.1	1523.0
20-Aug-14	24.0					0	4981	30	100	40	0	200	17.78		17.78			*40.0*	*/40/*	*0.1*	2200	*55*	**3.10**	124.6	**1.20**	*15.0*	64.9	59.7			**12.1**	**5.1**	**7.0**					0.0	0.0	5.1	615.6	0.0	0.0	7.0	1530.0
21-Aug-14	24.0					0	4981	32	50	20	0	200	19.78		19.78			*40.0*	*/40/*	*0.1*		*55*	**2.80**	112.5	**0.90**	*15.0*	64.9	47.6	5.1	20.9	**13.9**	**5.1**	**8.8**					0.0	0.0	5.1	620.7	0.0	0.0	8.8	1538.8
22-Aug-14	24.0					0	4981	32	50	20	0	100	8.89		8.89			*50.0*	*/50/*	*0.1*		*73*	**2.28**	91.6	**1.14**	*15.0*	38.9	52.7	32.2	1.9	**13.2**	**6.2**	**7.0**					0.0	0.0	6.2	626.9	0.0	0.0	7.0	1545.8
23-Aug-14	24.0					0	4981	30	55	30	0	200	18.78		18.78			*40.0*	*/40/*	*0.1*	2200	*72*	**2.60**	104.5	**1.30**	*15.0*	44.4	60.1			**12.9**	**5.5**	**7.4**					0.0	0.0	5.5	632.4	0.0	0.0	7.4	1553.2
24-Aug-14	24.0					0	4981	32	60	20	0	100	4.28		8.89			*20.0*	*/20/*	*0.1*		*73*	**2.68**	107.7	**1.35**	*15.0*	45.4	62.3			**3.2**	**1.0**	**2.2**					0.0	0.0	1.0	633.4	0.0	0.0	2.2	1555.4
25-Aug-14	24.0					0	4981	33	60	20	0	200	4.28		19.78			*90.0*	*/80/*	*0.0*		*74*	**2.74**	110.1	**1.38**	*15.0*	46.5	63.6			**2.4**	**1.1**	**1.3**					0.0	0.0	1.1	634.5	0.0	0.0	1.3	1556.7
26-Aug-14	24.0					0	4981	34	60	20	0	200	4.28		19.78			*80.0*	*/70/*	*0.1*		*75*	**2.90**	116.5	**1.51**	*15.0*	47.5	69.0			**6.4**	**1.0**	**5.4**					0.0	0.0	1.0	635.5	0.0	0.0	5.4	1562.1
27-Aug-14	24.0					0	4981	32	60	20	0	200	4.28		19.78			*80.0*	*/80/*	*0.0*		*71*	**3.10**	124.6	**1.67**	*15.0*	48.8	75.8			**8.0**	**1.3**	**6.7**					0.0	0.0	1.3	636.8	0.0	0.0	6.7	1568.8
28-Aug-14	24.0		Increased SPM to 4.61.			0	4981	31	70	20	0	200	4.61		19.78			*80.0*	*/70/*	*0.0*		*71*	**3.30**	132.6	**1.84**	*15.0*	49.9	82.7			**8.0**	**1.1**	**6.9**					0.0	0.0	1.1	637.9	0.0	0.0	6.9	1575.7
29-Aug-14	24.0					0	4981	31	75	10	0	200	4.61		20.78			*75.0*	*/65/*	*0.1*	2626	*73*	**2.60**	104.5	**2.03**	*15.0*	19.5	85.0	31.4	3.1	**6.4**	**1.0**	**5.4**					0.0	0.0	1.0	638.9	0.0	0.0	5.4	1581.1
30-Aug-14	24.0					0	4981	30	50	0	0	100	4.61		10.89			*75.0*	*/70/*	*0.1*		*72*	**2.80**	112.5	**2.18**	*15.0*	21.2	91.3			**8.0**	**1.7**	**6.3**					0.0	0.0	1.7	640.6	0.0	0.0	6.3	1587.4
31-Aug-14	24.0					0	4981	25	100	0	0	100	4.61		10.89			*80.0*	*/75/*	*0.1*		*71*	**3.00**	120.6	**2.31**	*15.0*	23.6	97.0			**8.0**	**2.4**	**5.6**					0.0	0.0	2.4	643.0	0.0	0.0	5.6	1593.0
01-Sep-14	24.0					0	4981	29	100	0	0	100	4.61		10.89			*75.0*	*/70/*	*0.1*		*73*	**3.20**	128.6	**2.35**	*15.0*	29.0	99.6			**8.0**	**5.4**	**2.6**					0.0	0.0	5.4	648.4	0.0	0.0	2.6	1595.6
02-Sep-14	24.0					0	4981	27	100	0	0	100	4.61		10.89			*65.0*	*/65/*	*0.1*		*75*	**3.10**	124.6	**2.10**	*15.0*	34.2	90.4		11.0	**7.0**	**5.2**	**1.8**					0.0	0.0	5.2	653.6	0.0	0.0	1.8	1597.4
03-Sep-14	24.0					0	4981	31	50	0	0	200	4.28		21.78			*50.0*	*/25/*	*0.1*		*67*	**2.60**	104.5	**1.90**	*15.0*	23.9	80.6	13.6	10.5	**4.0**	**3.3**	**0.7**					0.0	0.0	3.3	656.9	0.0	0.0	0.7	1598.1

1	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Down-hole P (heal)	Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.						SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	8646.4																											746.1	1786.6	2526.9	746.1	1780.8		0.0	121.0	0.0	0.0	746.1		121.0		1659.8	
04-Sep-14	**24.0**					0	4981	30	50	10	0	150	4.61		15.33			*50.0*	*/ 40 /*	*0.1*	2200	*79*	**2.75**	110.5	**1.92**	*15.0*	28.4	82.1			**6.0**	4.5	1.5					0.0	0.0	4.5	661.4	0.0	0.0	1.5	1599.6
05-Sep-14	**24.0**					0	4981	31	50	0	0	200	4.28		21.78			*50.0*	*/ 45 /*	*0.1*		*69*	**3.20**	128.6	**2.30**	*15.0*	30.7	97.9		-15.0	**3.1**	2.3	0.8					0.0	0.0	2.3	663.7	0.0	0.0	0.8	1600.4
06-Sep-14	**24.0**					0	4981	32	50	10	0	100	4.61		9.89			*50.0*	*/ 45 /*	*0.1*		*75*	**3.40**	136.6	**2.30**	*15.0*	37.6	99.0			**8.0**	6.9	1.1					0.0	0.0	6.9	670.6	0.0	0.0	1.1	1601.5
07-Sep-14	**24.0**					0	4981	23	50	10	0	100	4.28		9.89			*50.0*	*/ 45 /*	*0.1*		*74*	**3.60**	144.7	**2.30**	*15.0*	44.4	100.3			**8.0**	6.8	1.2					0.0	0.0	6.8	677.4	0.0	0.0	1.2	1602.7
08-Sep-14	**24.0**		transfered 34m3 water from 5200 to 5100.			0	4981	26	50	10	0	150	4.61		15.33			*50.0*	*/ 45 /*	*0.1*	2400	*70*	**3.85**	154.7	**3.00**	*15.0*	29.0	125.7	23.0	-22.6	**10.4**	7.6	2.8					0.0	0.0	7.6	685.0	0.0	0.0	2.8	1605.5
09-Sep-14	**24.0**		transfered 20m3 water from 5200 to 5100.			0	4981	25	100	20	0	150	4.28		14.33							*69*	**4.60**	184.9	**3.50**	*15.0*	37.6	147.3		-20.0	**10.1**	8.6	1.5					0.0	0.0	8.6	693.6	0.0	0.0	1.5	1607.0
10-Sep-14	**24.0**					0	4981	26	80	0	0	200	4.28		21.78							*70*	**4.85**	194.9	**3.50**	*15.0*	46.1	148.8			**10.0**	8.5	1.5					0.0	0.0	8.5	702.1	0.0	0.0	1.5	1608.5
11-Sep-14	**24.0**					0	4981	27	80	20	0	150	4.28		14.33							*74*	**4.10**	164.8	**2.50**	*15.0*	54.7	110.1		40.0	**9.9**	8.6	1.3					0.0	0.0	8.6	710.7	0.0	0.0	1.3	1609.8
12-Sep-14	**24.0**					0	4981	27	75	20	0	200	4.28		19.78							*73*	**4.30**	172.8	**2.50**	*15.0*	61.5	111.3			**8.0**	6.8	1.2					0.0	0.0	6.8	717.5	0.0	0.0	1.2	1611.0
13-Sep-14	**24.0**		transfered 20m3 water from 5200 to 5100.			0	4981	29	80	20	0	200	4.28		19.78			*95.0*	*/ 20 /*	*0.1*	2626	*70*	**5.00**	200.9	**3.05**	*15.0*	66.6	134.3		-20.0	**8.1**	5.1	3.0					0.0	0.0	5.1	722.6	0.0	0.0	3.0	1614.0
14-Sep-14	**24.0**					0	4981	29	85	20	0	200	4.28		19.78							*72*	**5.10**	204.9	**3.05**	*15.0*	70.0	134.9			**4.0**	3.4	0.6					0.0	0.0	3.4	726.0	0.0	0.0	0.6	1614.6
15-Sep-14	**24.0**					0	4981	27	80	20	0	250	4.28		25.22							*73*	**4.30**	172.8	**2.15**	*15.0*	73.4	99.4		39.5	**7.4**	3.4	4.0					0.0	0.0	3.4	729.4	0.0	0.0	4.0	1618.6
16-Sep-14	**24.0**		increased pump strokes			0	4981	28	150	0	0	100	4.61		10.89							*71*	**4.40**	176.8	**2.15**	*15.0*	76.9	99.9			**4.0**	3.5	0.5					0.0	0.0	3.5	732.9	0.0	0.0	0.5	1619.1
17-Sep-14	**24.0**					0	4981	27	150	0	0	100	4.61		10.89			*98.0*	*/ 0 /*	*0.0*		*69*	**3.70**	148.7	**1.35**	*15.0*	80.3	68.4		33.2	**5.0**	3.4	1.6					0.0	0.0	3.4	736.3	0.0	0.0	1.6	1620.7
18-Sep-14	**24.0**					0	4981	22	150	100	0	100	4.61		0.89			*95.0*	*/ 0 /*	*0.0*		*74*	**2.50**	100.5	**0.85**	*15.0*	56.4	44.1	26.2	28.6	**6.6**	2.3	4.3					0.0	0.0	2.3	738.6	0.0	0.0	4.3	1625.0
19-Sep-14	**24.0**					0	4981	28	100	0	0	100	4.61		10.89			*98.0*	*/ 0 /*	*0.0*		*69*	**2.60**	104.5	**0.90**	*15.0*	58.1	46.4			**4.0**	1.7	2.3					0.0	0.0	1.7	740.3	0.0	0.0	2.3	1627.3
20-Sep-14	**21.0**					0	4981	27	100	0	0	100	4.61		10.89			*98.0*	*/ 0 /*	*0.0*	2626	*72*	**2.70**	108.5	**1.00**	*15.0*	58.1	50.4			**4.0**	0.0	4.0					0.0	0.0	0.0	740.3	0.0	0.0	4.0	1631.3
21-Sep-14	**0.0**		Well went down overnight due to senser failing on jack. Weatherford is tracking down parts and will be out to repair.			0	4981	0	0	0	0	100	0		10.89			*0.0*	*/ 0 /*	*0.0*		*76*	**2.70**	108.5	**1.00**	*15.0*	58.1	50.4			**0.0**	0.0	0.0					0.0	0.0	0.0	740.3	0.0	0.0	0.0	1631.3
22-Sep-14	**0.0**					0	4981	0	0	0	0	150	0		16.33			*0.0*	*/ 0 /*	*0.0*		*72*	**2.70**	108.5	**1.00**	*15.0*	58.1	50.4			**0.0**	0.0	0.0					0.0	0.0	0.0	740.3	0.0	0.0	0.0	1631.3
23-Sep-14	**0.0**					0	4981	0	0	0	0	300	0		32.67			*0.0*	*/ 0 /*	*0.0*		*72*	**2.70**	108.5	**1.00**	*15.0*	58.1	50.4			**0.0**	0.0	0.0					0.0	0.0	0.0	740.3	0.0	0.0	0.0	1631.3
24-Sep-14	**12.0**		Weatherford repaired failed sensor and well back online.			0	4981	39	100	40	0	300	4		28.67			*50.0*	*/ 0 /*	*0.1*	2600	*70*	**3.68**	147.9	**1.85**	*15.0*	62.5	85.4		-30.0	**9.4**	4.4	5.0					0.0	0.0	4.4	744.7	0.0	0.0	5.0	1636.3
25-Sep-14	**24.0**					0	4981	30	50	40	0	200	4		17.78			*50.0*	*/ 0 /*	*0.1*		*69*	**3.15**	126.6	**1.28**	*15.0*	63.9	62.7		40.0	**18.7**	1.4	17.3					0.0	0.0	1.4	746.1	0.0	0.0	17.3	1653.6
26-Sep-14	**10.0**	Shut in				0	4981	27	70	40	0	200	4		17.78			*55.0*	*/ 0 /*	*0.1*		*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**6.2**	0.0	6.2					0.0	0.0	0.0	746.1	0.0	0.0	6.2	1659.8
27-Sep-14	**0.0**	Suspended				0	4981															*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
28-Sep-14	**0.0**	Suspended				0	4981															*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
29-Sep-14	**0.0**	Suspended				0	4981															*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
30-Sep-14	**0.0**	Suspended				0	4981															*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
01-Oct-14	**0.0**	Suspended				0	4981															*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
02-Oct-14	**0.0**	Suspended				0	4981															*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
03-Oct-14	**0.0**	Suspended				0	4981															*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
04-Oct-14	**0.0**	Suspended				0	4981															*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
05-Oct-14	**0.0**	Suspended				0	4981															*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
06-Oct-14	**0.0**	Suspended				0	4981	0	0	0	0	1100	119.8		119.8							*75*	**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
07-Oct-14	**0.0**	Suspended				0	4981																**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
08-Oct-14	**0.0**	Suspended				0	4981																**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
09-Oct-14	**0.0**	Suspended				0	4981																**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
10-Oct-14	**0.0**	Suspended				0	4981																**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
11-Oct-14	**0.0**	Suspended				0	4981																**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
12-Oct-14	**0.0**	Suspended				0	4981																**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
13-Oct-14	**0.0**	Suspended				0	4981																**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
14-Oct-14	**0.0**	Suspended				0	4981																**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
15-Oct-14	**0.0**	Suspended				0	4981																**3.31**	132.8	**1.44**	*15.0*	63.9	68.9			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
16-Oct-14	**0.0**	Suspended				0	4981																**1.69**	67.9	**0.02**	*4.8*	63.9	4.0		64.9	**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
17-Oct-14	**0.0**	Suspended				0	4981																**0.00**	0.0	**0.00**	*0.0*	0.0	0.0	63.9	4.0	**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
18-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
19-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
20-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
21-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
22-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
23-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0		4.0	**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
24-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
25-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
26-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
27-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
28-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
29-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
30-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8
31-Oct-14	**0.0**	Suspended				0	4981																	0.0			0.0	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	746.1	0.0	0.0	0.0	1659.8

Surf.Location: 12-20-081-15W5 **UWI - 107/04-20-081-15W5** PA Code: ABBT0125351 (Jan 02, 2013)
Formation: Bluesky
Perforation: 700mTVD, 878.0-1381.0m, FacsRite, 150nm / 6 thou
Pump/Tubing: 30-250 RWAF-20-3 set at 780m / 85.7mm OD (05-Jun-2014)
Drivehead: Weatherford VSH150 (wellhead mounted drive for sucker-rod systems)

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6		785.9	3166.6			6.3	63.7	6.3		779.6		63.0		3102.9	
01-Nov-12	0.0	Suspended																							0.0			0.0	0.0																	
02-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
04-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
06-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
07-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
08-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
09-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29-Nov-12	0.0	Suspended	Service rig brought 8m3 of produced water from tank 1 and brought in an extra 12m3 from offsite.																						0.0			0.0	0.0			0.0	0.0	0.0	8	*100.0*	8.0		0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
30-Nov-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
01-Dec-12	0.0	Suspended	Service Rig completed DP2 completion. Awaiting surface facilty completion for startup.																						0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
02-Dec-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
03-Dec-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
04-Dec-12	0.0	Suspended																							0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
05-Dec-12	5.0	Shut in	Started DP2 flowing temporarily into tank for DP1 in order to test equipment. Fluid to surface and seems to be pumping good. Shut back down. Awaiting burner install in Tank 2. Produced 4m3 of fluid. Will transfer into other tank once tank is ready. Speed is unknown. Ordered tach gun to read rpm.						0	0										*100.0 /0/ 0.0*						0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
06-Dec-12	0.0	Shut in	waiting on tank burner install																						0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
07-Dec-12	0.0	SD on High Torque	Tried to start well. Kept torquing up. Thought wellhead was frozen. Steamed but still had torque problem. Called for flushby.																						0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
08-Dec-12	0.0	SD on High Torque	Flush Rig blew engine on way to location. Waiting on other rig																						0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0
09-Dec-12	0.0	Pump Failure	Tried to flush well. Lifted up on rod string. Lifted up with only a slight increase in string weight. Tried to flush but could only pump at a very low rate as it would pressure up. Pumped down 3m3. lowered back into placeand tried to start well. Torqued up right away. Appears to be a pump issue down hole.																						0.0			0.0	0.0			0.0	0.0	0.0	3	*100.0*	3.0		0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0
10-Dec-12	0.0	Pump Failure	Waiting on gripper to pull pump. Should be onsite tomorrow. Flush rig on standby.																						0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0
11-Dec-12	0.0	Workover/Pump change	Flush rig and gripper onsite to change pump. Should be complete tomorrow. Used 10m3 of water from DP1 tank																						0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0
12-Dec-12	8.5	Workover/Pump change	Pump changed out on DP2. Found pump had not been spaced out right on completion and seized up. Pumped 7m3 down well and 3m3 down flowline to tank. Transferred 4m3 from tank 1 to tank 2 to bring level up in tank. Started well and set to 80rpm.						0	0										*100.0 /0/ 0.0*		*0*	**0.20**	8.0	**0.00**	*100.0*	0.0	8.0	-7.0	**1.0**	0.0	**1.0**	7	*10.0*	6.3	0.7	0.0	6.3	0.0	0.0	0.3	10.7	0.0	0.0
13-Dec-12	24.0		Well flowing/running good. Still water.						0	0										*100.0 /0/ 0.0*		*0*	**0.60**	24.1	**0.00**	*100.0*	0.0	24.1		**16.1**	0.0	**16.1**					0.0	6.3	0.0	0.0	10.7	0.0	5.4	5.4
14-Dec-12	24.0		Well flowing/running good. Still water.						0	0										*100.0 /0/ 0.0*		*20*	**0.90**	36.2	**0.00**	*100.0*	0.0	36.2		**12.1**	0.0	**12.1**					0.0	6.3	0.0	0.0	0.0	0.0	12.1	17.5
15-Dec-12	24.0		Well flowing good. Still water. Transferred 28m3 into tank from tank 1 to get above burner						0	0										*100.0 /0/ 0.0*		*59*	**1.80**	72.3	**0.00**	*100.0*	0.0	72.3	-28.0	**8.2**	0.0	**8.2**					0.0	6.3	0.0	0.0	0.0	0.0	8.2	25.7
16-Dec-12	24.0		Flowing good. Still water						0	0										*100.0 /0/ 0.0*		*54*	**2.00**	80.4	**0.00**	*100.0*	0.0	80.4		**8.0**	0.0	**8.0**					0.0	6.3	0.0	0.0	0.0	0.0	8.0	33.7
17-Dec-12	24.0		Flowing good. Still water						0	0										*100.0 /0/ 0.0*		*57*	**2.20**	88.4	**0.00**	*100.0*	0.0	88.4		**8.0**	0.0	**8.0**					0.0	6.3	0.0	0.0	0.0	0.0	8.0	41.7
18-Dec-12	24.0		Flowing good. Still water						0	0										*100.0 /0/ 0.0*		*58*	**2.40**	96.4	**0.00**	*100.0*	0.0	96.4		**8.0**	0.0	**8.0**					0.0	6.3	0.0	0.0	0.0	0.0	8.0	49.7
19-Dec-12	24.0		Flowing good. Still water. Fluid gun installed.						0	0										*100.0 /0/ 0.0*		*52*	**2.70**	108.5	**0.00**	*100.0*	0.0	108.5		**12.1**	0.0	**12.1**					0.0	6.3	0.0	0.0	0.0	0.0	12.1	61.8
20-Dec-12	24.0		flowing good. Trace oil						0	0							574			*99.0 /0/ 0.0*		*56*	**2.92**	117.3	**0.00**	*100.0*	0.0	117.3		**8.8**	0.0	**8.8**					0.0	6.3	0.0	0.0	0.0	0.0	8.8	70.6
21-Dec-12	24.0		Had to speed back up to 80rpm. Had dropped down to 64.						0	0							619			*99.0 /0/ 0.0*		*57*	**3.12**	125.4	**0.00**	*100.0*	0.0	125.4		**8.0**	0.0	**8.0**					0.0	6.3	0.0	0.0	0.0	0.0	8.0	78.6
22-Dec-12	24.0		flowing good.still water,trace oil						0	0							696			*99.0 /0/ 0.0*		*55*	**3.40**	136.6	**3.39**	*40.0*	0.2	136.4		**11.3**	0.2	**11.1**					0.2	6.1	0.0	0.0	0.0	0.0	11.1	89.7
23-Dec-12	24.0		no issues						0	0							651			*90.0 /0/ 0.0*		*55*	**3.60**	144.7	**3.58**	*40.0*	0.5	144.2		**8.0**	0.3	**7.7**					0.3	5.8	0.0	0.0	0.0	0.0	7.7	97.4
24-Dec-12	24.0		Flowing good. Seeing more oil.						0	0							647			*99.0 /0/ 0.0*		*57*	**3.80**	152.7	**3.77**	*40.0*	0.7	152.0		**8.0**	0.2	**7.8**					0.2	5.6	0.0	0.0	0.0	0.0	7.8	105.2

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	% Sand	Cl- ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6			785.9	3166.6			6.3		779.6		63.0		3102.9	
25-Dec-12	24.0		Flowing good. Seeing more oil. Burner tripped in tank. Restarted no issue.						0	0						639			*99.0*	*/0/*	*0.0*		*51*	4.10	164.8	4.05	*30.0*	1.4	163.4			12.1	0.7	11.4					0.7	4.9	0.0	0.0	0.0	0.0	11.4	116.6
26-Dec-12	24.0		flowing good.						100	0						690			*80.0*	*/0/*	*0.0*		*54*	4.22	169.6	4.15	*30.0*	2.0	167.6			4.8	0.6	4.2					0.6	4.3	0.0	0.0	0.0	0.0	4.2	120.8
27-Dec-12	24.0		tank burner tripped again. Restarted. Will call A-fire to troubleshoot						400	0						725			*75.0*	*/0/*	*0.0*		*44*	4.34	174.4	4.25	*30.0*	2.5	171.9			4.8	0.5	4.3					0.5	3.8	0.0	0.0	0.0	0.0	4.3	125.1
28-Dec-12	23.5	Other	Changed oil in driver. 725hrs.						300	0						712			*75.0*	*/0/*	*0.0*		*48*	4.42	177.6	4.30	*30.0*	3.4	174.2			3.2	0.9	2.3					0.9	2.9	0.0	0.0	0.0	0.0	2.3	127.4
29-Dec-12	24.0		A-Fire onsite to troubleshoot the tank burner. Changed orifice. Seems to be running better. Propane delivered. Lots of oil in sample						400	0						716			*50.0*	*/0/*	*0.0*		*52*	4.54	182.4	4.35	*30.0*	5.3	177.1			4.8	1.9	2.9					1.9	1.0	0.0	0.0	0.0	0.0	2.9	130.3
30-Dec-12	24.0		Flowing good.						400	0						712			*50.0*	*/0/*	*0.0*		*58*	4.62	185.7	4.40	*30.0*	6.2	179.5			3.2	0.9	2.3					0.9	0.1	0.0	0.0	0.0	0.0	2.3	132.6
31-Dec-12	24.0		All good. Oil cut dropped off and torque up a bit. Flowing good. Have contractors coming start piping in the chemical injection piping on the 3rd for the Oilflow chem.						350	0						703			*50.0*	*/0/*	*0.0*		*65*	4.74	190.5	4.52	*30.0*	6.2	184.3			4.8	0.0	4.8					0.0	0.1	0.0	0.0	0.0	0.0	4.8	137.4
01-Jan-13	0.0								300	0						650			*20.0*	*/0/*	*0.0*		*71*	4.74	190.5	4.55	*20.0*	6.2	184.3			0.0	0.0	0.0					0.0	0.1	0.0	0.0	0.0	0.0	0.0	137.4
02-Jan-13	24.0		All good. No issues. Lots of oil again.						200	0						710			*5.0*	*/0/*	*0.0*		*74*	4.90	196.9	4.53	*20.0*	11.9	185.0			6.4	5.7	0.7					0.1	0.0	5.6	5.6	0.0	0.0	0.7	138.1
03-Jan-13	24.0		Fitters onsite to start piping the chemical injection. Fluid gun not working, PIT up tomorrow to troubleshoot. Hauled out 48m3 of produced water to Newalta (Peace River).						300	0									*5.0*	*/0/*	*0.0*		*78*	3.78	151.9	3.37	*20.0*	13.2	138.7	48.0		3.0	1.3	1.7					0.0	0.0	1.3	6.9	0.0	0.0	1.7	139.8
04-Jan-13	24.0		PIT changed out both fluid gun meters. Fitters continuing chem injection piping.						150	0						739			*5.0*	*/0/*	*0.0*		*76*	3.82	153.5	3.37	*20.0*	14.5	139.0			1.6	1.3	0.3					0.0	0.0	1.3	8.2	0.0	0.0	0.3	140.1
05-Jan-13	24.0		All good. No issues						150	0						742			*5.0*	*/0/*	*0.0*		*76*	3.90	156.7	3.37	*20.0*	17.0	139.7			3.2	2.5	0.7					0.0	0.0	2.5	10.7	0.0	0.0	0.7	140.8
06-Jan-13	24.0		All good. No issues.						150	0						757			*5.0*	*/0/*	*0.0*		*74*	4.00	160.7	3.37	*20.0*	20.3	140.4			4.0	3.3	0.7					0.0	0.0	3.3	14.0	0.0	0.0	0.7	141.5
07-Jan-13	24.0		Fitters continuing on chem injection.						150	0						765			*5.0*	*/0/*	*0.0*		*73*	4.12	165.6	3.37	*20.0*	24.1	141.5			4.8	3.8	1.0					0.0	0.0	3.8	17.8	0.0	0.0	1.0	142.5
08-Jan-13	24.0		Piping completed for chemical injection. Will start injection tomorrow	Water recirc. Rate m3/day			Proflux injection L/day		150	0						747			*5.0*	*/0/*	*0.0*		*76*	4.20	168.8	3.37	*20.0*	26.7	142.1			3.2	2.6	0.6					0.0	0.0	2.6	20.4	0.0	0.0	0.6	143.1
09-Jan-13	24.0		Started injecting flux chemical to DP2 casing.	2			60		150	0						743			*5.0*	*/0/*	*0.0*		*78*	4.30	172.8	3.37	*20.0*	29.9	142.9			4.0	3.2	0.8					0.0	0.0	3.2	23.6	0.0	0.0	0.8	143.9
10-Jan-13	24.0		All good.	2			60		400	0						710			*5.0*	*/0/*	*0.0*		*78*	4.40	176.8	3.38	*20.0*	32.8	144.0			4.0	2.9	1.1					0.0	0.0	2.9	26.5	0.0	0.0	1.1	145.0
11-Jan-13	24.0		Recirc tripped when generator surged. Restarted fine. Increased flow. Cut back on chem injection as well returns show chemical already.	5			40		200	0						752			*20.0*	*/0/*	*0.0*		*74*	4.44	178.4	3.37	*20.0*	34.4	144.0			1.6	1.6	0.0					0.0	0.0	1.6	28.1	0.0	0.0	0.0	145.0
12-Jan-13	24.0		Cut back on recirc. Restarted tank heater	2			40		50	0						768			*20.0*	*/0/*	*0.0*		*67*	4.50	180.8	3.37	*20.0*	36.3	144.5			2.4	1.9	0.5					0.0	0.0	1.9	30.0	0.0	0.0	0.5	145.5
13-Jan-13	24.0		All good.	1.5			40		50	0						761			*20.0*	*/0/*	*0.0*		*74*	4.56	183.2	3.37	*21.0*	37.8	145.4			2.4	1.5	0.9					0.0	0.0	1.5	31.5	0.0	0.0	0.9	146.4
14-Jan-13	24.0		Cut back on chem injection.	1.5			20		50	0						766			*20.0*	*/0/*	*0.0*		*77*	4.66	187.3	3.37	*22.0*	40.4	146.9			4.0	2.6	1.4					0.0	0.0	2.6	34.1	0.0	0.0	1.4	147.8
15-Jan-13	24.0		All good.	2			20		50	100						767			*50.0*	*/0/*	*0.0*		*77*	4.72	189.7	3.37	*23.0*	41.8	147.9			2.4	1.4	1.0					0.0	0.0	1.4	35.5	0.0	0.0	1.0	148.8
16-Jan-13	24.0		Piece of ice came off of roof of tank and bent the gasline going to the tank burner. Shut in and will get fitter to repair. Shut off chem injection to well but left recirc pumping. Well returns showing good chemical return and concentration in tank is coming up.	2.3					50	100						753			*50.0*	*/0/*	*0.0*		*77*	4.80	192.9	3.37	*24.0*	43.7	149.2			3.2	1.9	1.3					0.0	0.0	1.9	37.4	0.0	0.0	1.3	150.1
17-Jan-13	24.0		All good.	2.1					50	100						757			*20.0*	*/0/*	*0.0*		*74*	4.84	194.5	3.37	*25.0*	44.3	150.2			1.6	0.6	1.0					0.0	0.0	0.6	38.0	0.0	0.0	1.0	151.1
18-Jan-13	24.0		Cut back on recirc. Still leaving flux chem off as tank concentration is still quite high.	1.7					50	100						757			*10.0*	*/0/*	*0.0*		*68*	4.90	196.9	3.37	*26.0*	45.5	151.4			2.4	1.2	1.2					0.0	0.0	1.2	39.2	0.0	0.0	1.2	152.3
19-Jan-13	24.0		All good	1.5					50	100						762			*20.0*	*/0/*	*0.0*		*65*	5.00	200.9	3.37	*27.0*	47.8	153.1			4.0	2.3	1.7					0.0	0.0	2.3	41.5	0.0	0.0	1.7	154.0
20-Jan-13	24.0		Found recirc pump tripped from power failure. Restarted with no issues.	2			0		50	100						773			*20.0*	*/0/*	*0.0*		*60*	5.04	202.5	3.37	*28.0*	48.3	154.2			1.6	0.5	1.1					0.0	0.0	0.5	42.0	0.0	0.0	1.1	155.1
21-Jan-13	24.0		crew out tomorrow to fix burner gas line.	2			0		50	100						754			*20.0*	*/0/*	*0.0*		*56*	5.10	204.9	3.37	*28.0*	50.1	154.8			2.4	1.8	0.6					0.0	0.0	1.8	43.8	0.0	0.0	0.6	155.7
22-Jan-13	24.0		Had fitter out and replaced tubing going to burner on tank 2 that had been damaged from ice. Restarted burner.	1.8			0		50	100						743			*10.0*	*/0/*	*0.0*		*52*	5.12	205.7	3.37	*28.0*	50.6	155.1			0.8	0.5	0.3					0.0	0.0	0.5	44.3	0.0	0.0	0.3	156.0
23-Jan-13	24.0		Turned flux chemical back on.	1.9			20		50	100						754			*5.0*	*/0/*	*0.0*		*62*	5.24	210.6	3.37	*28.0*	54.1	156.5			4.8	3.5	1.3					0.0	0.0	3.5	47.8	0.0	0.0	1.3	157.3
24-Jan-13	24.0		Pulled 15m3 of water from tank to transfer into DP1	1.5			20		50	100						752			*10.0*	*/0/*	*0.0*		*70*	4.98	200.1	3.00	*28.0*	57.3	142.8	15.0		4.6	3.2	1.4					0.0	0.0	3.2	51.0	0.0	0.0	1.4	158.7
25-Jan-13	23.5	Other	Changed oil in driver. 1392hrs.	2			20		50	100						720			*20.0*	*/0/*	*0.0*		*74*	5.02	201.7	3.00	*28.0*	58.4	143.3			1.6	1.1	0.5					0.0	0.0	1.1	52.1	0.0	0.0	0.5	159.2
26-Jan-13	24.0		Increased PCP speed. Fluid level increasing.	1.5			20		50	100						711			*20.0*	*/0/*	*0.0*		*75*	5.12	205.7	3.00	*28.0*	61.3	144.4			4.0	2.9	1.1					0.0	0.0	2.9	55.0	0.0	0.0	1.1	160.3
27-Jan-13	24.0		Found recirc pump tripped from power failure. Restarted with no issues.	1.5			20		50	100						686			*20.0*	*/0/*	*0.0*		*73*	5.20	209.0	3.00	*28.0*	63.7	145.3			3.2	2.4	0.8					0.0	0.0	2.4	57.4	0.0	0.0	0.8	161.1
28-Jan-13	24.0		Cut back on recirc flow. Fluid gun reading eratic. Think the cold is effecting them.	0.8			20		50	100									*20.0*	*/0/*	*0.0*		*74*	5.24	210.6	3.00	*28.0*	64.8	145.8			1.6	1.1	0.5					0.0	0.0	1.1	58.5	0.0	0.0	0.5	161.6
29-Jan-13	24.0		Both fluid guns not reading due to cold. Screens not reading. PIT coming out in morning to check. Increased tank temp setpoint to 85c to aid in tank seperation.	0.8			20		50	100									*20.0*	*/0/*	*0.0*		*74*	5.32	213.8	3.00	*28.0*	67.1	146.7			3.2	2.3	0.9					0.0	0.0	2.3	60.8	0.0	0.0	0.9	162.5
30-Jan-13	24.0		PIT Onsite. Checked out fluid guns and they were working and collecting data but it was just to cold for the screens.	0.8			20		50	100						711			*20.0*	*/0/*	*0.0*		*79*	5.40	217.0	3.00	*28.0*	69.4	147.6			3.2	2.3	0.9					0.0	0.0	2.3	63.1	0.0	0.0	0.9	163.4
31-Jan-13	24.0		All good.	0.8			20		50	100						679			*20.0*	*/0/*	*0.0*		*83*	5.50	221.0	3.00	*28.0*	72.3	148.7			4.0	2.9	1.1					0.0	0.0	2.9	66.0	0.0	0.0	1.1	164.5
01-Feb-13	24.0		Increased water recirc and shut off chem injection. Rates and strength good. Increased PCP speed to 130rpm.	2.3			0		50	100						683			*30.0*	*/0/*	*0.0*		*86*	5.56	223.4	2.98	*29.5*	73.1	150.3			2.4	0.8	1.6					0.0	0.0	0.8	66.8	0.0	0.0	1.6	166.1
02-Feb-13	24.0		All good.	2.3			0		50	100						680			*20.0*	*/0/*	*0.0*		*85*	5.62	225.8	2.96	*31.0*	73.8	152.0			2.4	0.7	1.7					0.0	0.0	0.7	67.5	0.0	0.0	1.7	167.8
03-Feb-13	24.0		All good.	2.3			0		50	100						682			*10.0*	*/0/*	*0.0*		*85*	5.70	229.1	2.94	*32.5*	74.9	154.2			3.2	1.1	2.1					0.0	0.0	1.1	68.6	0.0	0.0	2.1	169.9
04-Feb-13	24.0		All good.	2			0		50	100						685			*20.0*	*/0/*	*0.0*		*85*	5.74	230.7	2.93	*33.0*	75.7	155.0			1.6	0.8	0.8					0.0	0.0	0.8	69.4	0.0	0.0	0.8	170.7
05-Feb-13	24.0		Tank Burner tripped. Restarted no problems.	2			0		50	100						688			*10.0*	*/0/*	*0.0*		*81*	5.80	233.1	2.91	*34.0*	76.6	156.5			2.4	0.9	1.5					0.0	0.0	0.9	70.3	0.0	0.0	1.5	172.2
06-Feb-13	24.0		All good	2			0		50	100						685			*5.0*	*/0/*	*0.0*		*84*	5.90	237.1	2.89	*36.0*	77.4	159.7			4.0	0.8	3.2					0.0	0.0	0.8	71.1	0.0	0.0	3.2	175.4
07-Feb-13	24.0		All good. No changes	2			0		50	100						680			*5.0*	*/0/*	*0.0*		*82*	5.98	240.3	2.87	*37.5*	78.1	162.2			3.2	0.7	2.5					0.0	0.0	0.7	71.8	0.0	0.0	2.5	177.9
08-Feb-13	24.0		All good.	2			0		50	100						680			*5.0*	*/0/*	*0.0*		*83*	6.02	241.9	2.86	*38.0*	78.7	163.2			1.6	0.6	1.0					0.0	0.0	0.6	72.4	0.0	0.0	1.0	178.9
09-Feb-13	24.0		All good.	2			0		50	100						683			*5.0*	*/0/*	*0.0*		*83*	6.10	245.1	2.84	*38.5*	80.6	164.5			3.2	1.9	1.3					0.0	0.0	1.9	74.3	0.0	0.0	1.3	180.2
10-Feb-13	24.0		All good.	2			0		50	100						680			*5.0*	*/0/*	*0.0*		*83*	6.18	248.3	2.82	*38.5*	83.0	165.3			3.2	2.4	0.8					0.0	0.0	2.4	76.7	0.0	0.0	0.8	181.0
11-Feb-13	24.0		Tried to ship out some water. Oil at load line so more oil in tank than thought. Will be shipping oil when Tervita can take it. Full today.	2			0		50	100						684			*5.0*	*/0/*	*0.0*		*84*	6.20	249.1	2.80	*39.0*	83.3	165.8			0.8	0.3	0.5					0.0	0.0	0.3	77.0	0.0	0.0	0.5	181.5
12-Feb-13	24.0		All good.	2			0		50	100						678			*5.0*	*/0/*	*0.0*		*86*	6.26	251.6	2.79	*39.0*	85.1	166.5			2.4	1.8	0.6					0.0	0.0	1.8	78.8	0.0	0.0	0.6	182.1

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	% Sand	Cl- ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6				785.9	3166.6			6.3		779.6		63.0		3102.9	
13-Feb-13	**11.0**	Other	Found PCP off. Hydraulic drive was not making hydraulic pressure and loud clunking coming from drive unit. Seems like the coupling for the drive pump may have broke. Called Brittania Industries to troubleshoot and I will take pump apart in morning to investigate and determine what is need for parts to repair. Shut off engine and recirc. Dont think it was pumping much since yesterday as tank level has not moved much.	0			0		50	100						665			*0.0 /0/ 0.0*				*85*	**6.28**	252.4	**2.79**	*39.0*	85.6	166.8						**0.8**	0.5	0.3					0.0	0.0	0.5	79.3	0.0	0.0	0.3	182.4
14-Feb-13	**0.0**	Other	Pulled apart the hyd drive and coupling was fine. Problem was the actual hydraulic pump failed. Brittania will be up with a new one on Saturday to change it out.	0			0		50	100						643			*0.0 /0/ 0.0*				*84*	**6.28**	252.4	**2.79**	*39.0*	85.6	166.8						**0.0**	0.0	0.0					0.0	0.0	0.0	79.3	0.0	0.0	0.0	182.4
15-Feb-13	**0.0**	Other	PIT onsite to download data from fluid guns and change out N2 bottles.	0			0		50	100						610			*0.0 /0/ 0.0*				*85*	**6.28**	252.4	**2.79**	*39.0*	85.6	166.8						**0.0**	0.0	0.0					0.0	0.0	0.0	79.3	0.0	0.0	0.0	182.4
16-Feb-13	**12.0**	Other	Brittania onsite. Changed out hydraulic pump on drive unit. Restarted well with no issues. Restarted recirc water. Plowed snow onsite.	1.6			0		50	100						590			*50.0 /0/ 0.0*				*78*	**6.32**	254.0	**2.79**	*39.0*	86.5	167.5						**1.6**	0.9	0.7					0.0	0.0	0.9	80.2	0.0	0.0	0.7	183.1
17-Feb-13	**24.0**		Slowed pump by 5rpm. All good.	1.3			0		50	100						701			*10.0 /0/ 0.0*				*84*	**6.54**	262.8	**2.79**	*39.0*	91.9	170.9						**8.8**	5.4	3.4					0.0	0.0	5.4	85.6	0.0	0.0	3.4	186.5
18-Feb-13	**24.0**		All good.	1.3			0		50	100						696			*10.0 /0/ 0.0*				*81*	**6.62**	266.0	**2.79**	*39.0*	93.9	172.1						**3.2**	2.0	1.2					0.0	0.0	2.0	87.6	0.0	0.0	1.2	187.7
19-Feb-13	**24.0**		Shipped out load of oil	1.3			0		50	100						683			*10.0 /0/ 0.0*				*85*	**5.76**	231.5	**2.79**	*39.0*	72.8	158.7	21.5	14.3				**1.2**	0.4	0.8					0.0	0.0	0.4	88.0	0.0	0.0	0.8	188.5
20-Feb-13	**24.0**		All good.	1.3			0		50	100						689			*5.0 /0/ 0.0*				*85*	**5.80**	233.1	**2.79**	*39.0*	73.8	159.3						**1.6**	1.0	0.6					0.0	0.0	1.0	89.0	0.0	0.0	0.6	189.1
21-Feb-13	**24.0**		Shipped out load of oil.	1.3			0		50	100						683			*5.0 /0/ 0.0*				*86*	**4.92**	197.7	**2.79**	*37.0*	53.9	143.8	20.2	15.9				**0.7**	0.3	0.4					0.0	0.0	0.3	89.3	0.0	0.0	0.4	189.5
22-Feb-13	**24.0**		All good.	1.3			0		50	100						681			*5.0 /0/ 0.0*				*86*	**4.95**	198.9	**2.79**	*37.0*	54.7	144.2						**1.2**	0.8	0.4					0.0	0.0	0.8	90.1	0.0	0.0	0.4	189.9
23-Feb-13	**24.0**		Shipped out load of oil. All good.	1.3			0		50	100						675			*5.0 /0/ 0.0*				*86*	**4.03**	161.9	**2.79**	*31.0*	34.4	127.5	21.5	17.6				**2.1**	1.2	0.9					0.0	0.0	1.2	91.3	0.0	0.0	0.9	190.8
24-Feb-13	**24.0**		All good. Cut back on recirc a bit.	1			0		50	100						683			*10.0 /0/ 0.0*				*86*	**4.10**	164.8	**2.79**	*31.0*	36.3	128.5						**2.8**	1.9	0.9					0.0	0.0	1.9	93.2	0.0	0.0	0.9	191.7
25-Feb-13	**24.0**		Shippedout load of oil. All good.	1			0		50	100						682			*5.0 /0/ 0.0*				*85*	**3.26**	131.0	**2.79**	*5.0*	17.9	113.1	18.9	16.8				**1.9**	0.5	1.4					0.0	0.0	0.5	93.7	0.0	0.0	1.4	193.1
26-Feb-13	**24.0**		Changed out hydraulic filter on return tank on drive unit.	1			0		50	100						672			*5.0 /0/ 0.0*				*85*	**3.28**	131.8	**2.79**	*7.0*	18.3	113.5						**0.8**	0.4	0.4					0.0	0.0	0.4	94.1	0.0	0.0	0.4	193.5
27-Feb-13	**23.0**		Changed oil in driver. 2118hrs.	1			0		50	100						678			*5.0 /0/ 0.0*				*85*	**3.34**	134.2	**2.79**	*15.0*	18.8	115.4						**2.4**	0.5	1.9					0.0	0.0	0.5	94.6	0.0	0.0	1.9	195.4
28-Feb-13	**24.0**		Baker collected fluid samples.	1			0		50	100						672			*10.0 /0/ 0.0*				*85*	**3.40**	136.6	**2.79**	*20.0*	19.6	117.0						**2.4**	0.8	1.6					0.0	0.0	0.8	95.4	0.0	0.0	1.6	197.0
01-Mar-13	**24.0**		PIT onsite and dopwnloaded fluid gun data	1			0		50	100						677			*10.0 /0/ 0.0*				*85*	**3.50**	140.6	**2.74**	*27.0*	22.3	118.3						**4.0**	2.7	1.3					0.0	0.0	2.7	98.1	0.0	0.0	1.3	198.3
02-Mar-13	**24.0**		All good.	1			0		50	100						674			*10.0 /0/ 0.0*				*85*	**3.58**	143.9	**2.69**	*31.0*	24.7	119.2						**3.2**	2.4	0.8					0.0	0.0	2.4	100.5	0.0	0.0	0.8	199.1
03-Mar-13	**24.0**		All good.	1			0		50	100						672			*20.0 /0/ 0.0*				*85*	**3.68**	147.9	**2.61**	*36.0*	27.5	120.4						**4.0**	2.8	1.2					0.0	0.0	2.8	103.3	0.0	0.0	1.2	200.3
04-Mar-13	**24.0**		Recirc tripped. Restarted no issues.	1			0		50	100						675			*5.0 /0/ 0.0*				*82*	**3.74**	150.3	**2.59**	*36.0*	29.6	120.7						**2.4**	2.1	0.3					0.0	0.0	2.1	105.4	0.0	0.0	0.3	200.6
05-Mar-13	**24.0**		Champion rep out to collect samples. All good.	1			0		50	100						674			*10.0 /0/ 0.0*				*85*	**3.84**	154.3	**2.57**	*36.0*	32.7	121.6						**4.0**	3.1	0.9					0.0	0.0	3.1	108.5	0.0	0.0	0.9	201.5
06-Mar-13	**24.0**		Increased PCP rpm	1			0		50	100						679			*10.0 /0/ 0.0*				*85*	**3.90**	156.7	**2.54**	*36.0*	35.0	121.7						**2.4**	2.3	0.1					0.0	0.0	2.3	110.8	0.0	0.0	0.1	201.6
07-Mar-13	**24.0**		All good	1			0		50	100						678			*10.0 /0/ 0.0*				*85*	**3.96**	159.1	**2.52**	*36.0*	37.0	122.1						**2.4**	2.0	0.4					0.0	0.0	2.0	112.8	0.0	0.0	0.4	202.0
08-Mar-13	**24.0**		All good.	1			0		50	100						676			*10.0 /0/ 0.0*				*85*	**4.02**	161.5	**2.50**	*36.0*	39.1	122.4						**2.4**	2.1	0.3					0.0	0.0	2.1	114.9	0.0	0.0	0.3	202.3
09-Mar-13	**24.0**		All good	1			0		50	100						678			*10.0 /0/ 0.0*				*85*	**4.10**	164.8	**2.48**	*36.0*	41.7	123.1						**3.2**	2.6	0.6					0.0	0.0	2.6	117.5	0.0	0.0	0.6	202.9
10-Mar-13	**24.0**		All good.	1			0		50	100						682			*10.0 /0/ 0.0*				*85*	**4.18**	168.0	**2.46**	*36.0*	44.2	123.8						**3.2**	2.5	0.7					0.0	0.0	2.5	120.0	0.0	0.0	0.7	203.6
11-Mar-13	**24.0**		All good.	1			0		50	100						688			*5.0 /0/ 0.0*				*85*	**4.26**	171.2	**2.44**	*36.0*	46.8	124.4						**3.2**	2.6	0.6					0.0	0.0	2.6	122.6	0.0	0.0	0.6	204.2
12-Mar-13	**24.0**		All good	1			0		50	100						685			*5.0 /0/ 0.0*				*85*	**4.34**	174.4	**2.42**	*36.0*	49.4	125.0						**3.2**	2.6	0.6					0.0	0.0	2.6	125.2	0.0	0.0	0.6	204.8
13-Mar-13	**24.0**		All good. Shipped part load of oil.	1			0		50	100						684			*5.0 /0/ 0.0*				*85*	**3.96**	159.1	**2.42**	*36.0*	39.6	119.5	10.0	5.6				**0.3**	0.2	0.1					0.0	0.0	0.2	125.4	0.0	0.0	0.1	204.9
14-Mar-13	**24.0**		All good	1			0		50	100						678			*5.0 /0/ 0.0*				*84*	**4.02**	161.5	**2.40**	*36.0*	41.7	119.8						**2.4**	2.1	0.3					0.0	0.0	2.1	127.5	0.0	0.0	0.3	205.2
15-Mar-13	**24.0**		All good.	1			0		50	100						677			*5.0 /0/ 0.0*				*84*	**4.10**	164.8	**2.38**	*36.0*	44.2	120.6						**3.2**	2.5	0.7					0.0	0.0	2.5	130.0	0.0	0.0	0.7	205.9
16-Mar-13	**24.0**		Maxxam collected gas samples	1			0		50	100						673			*10.0 /0/ 0.0*				*84*	**4.16**	167.2	**2.36**	*36.0*	46.3	120.9						**2.4**	2.1	0.3					0.0	0.0	2.1	132.1	0.0	0.0	0.3	206.2
17-Mar-13	**24.0**		All good.	1			0		50	100						678			*5.0 /0/ 0.0*				*84*	**4.20**	168.8	**2.34**	*36.0*	47.8	121.0						**1.6**	1.5	0.1					0.0	0.0	1.5	133.6	0.0	0.0	0.1	206.3
18-Mar-13	**24.0**		All good	1			0		50	100						677			*5.0 /0/ 0.0*				*84*	**4.26**	171.2	**2.32**	*36.0*	49.9	121.3						**2.4**	2.1	0.3					0.0	0.0	2.1	135.7	0.0	0.0	0.3	206.6
19-Mar-13	**24.0**		Production slowing down and torque coming up. Really thick oil	1			0		50	100						656			*5.0 /0/ 0.0*				*84*	**4.28**	172.0	**2.32**	*36.0*	50.4	121.6						**0.8**	0.5	0.3					0.0	0.0	0.5	136.2	0.0	0.0	0.3	206.9
20-Mar-13	**24.0**		Belt on governer for driver loosened off and PCP rpm dropped off. Tightened up and reset speed. Torque still climbing. Started chem injection. Tank burner tripped. Restarted.	1.2			10		50	100						621			*5.0 /0/ 0.0*				*80*	**4.30**	172.8	**2.32**	*36.0*	50.9	121.9						**0.8**	0.5	0.3					0.0	0.0	0.5	136.7	0.0	0.0	0.3	207.2
21-Mar-13	**24.0**		Torque back down and flowing good.	1			10		50	100						638			*20.0 /0/ 0.0*				*83*	**4.38**	176.0	**2.30**	*36.0*	53.5	122.5						**3.2**	2.6	0.6					0.0	0.0	2.6	139.3	0.0	0.0	0.6	207.8
22-Mar-13	**24.0**		Bled down casing pressure	0.9			10		50	80						701			*5.0 /0/ 0.0*				*85*	**4.50**	180.8	**2.28**	*36.0*	57.1	123.7						**4.8**	3.6	1.2					0.0	0.0	3.6	142.9	0.0	0.0	1.2	209.0
23-Mar-13	**24.0**		Pulled 5m3 of water from tank to do flush on DP1.	0.9			5		50	70						697			*20.0 /0/ 0.0*				*85*	**4.48**	180.0	**2.26**	*36.0*	57.1	122.9		5.0				**4.2**	0.0	4.2					0.0	0.0	0.0	142.9	0.0	0.0	4.2	213.2
24-Mar-13	**24.0**		All good.	0.9			5		50	55						702			*10.0 /0/ 0.0*				*85*	**4.56**	183.2	**2.24**	*36.0*	59.7	123.5						**3.2**	2.6	0.6					0.0	0.0	2.6	145.5	0.0	0.0	0.6	213.8
25-Mar-13	**22.0**		All good, Shut off chem injection	1			0		50	55						707			*10.0 /0/ 0.0*				*85*	**4.62**	185.7	**2.22**	*36.0*	61.7	124.0						**2.4**	2.0	0.4					0.0	0.0	2.0	147.5	0.0	0.0	0.4	214.2
26-Mar-13	**24.0**		Shut down PCP for 1 hour in order to install new nipple on flowline. Changed out gauges on tubing and casing to show low pressures more accuratly. Shipped out load of oil.	0.9			0		40	45						692			*10.0 /0/ 0.0*				*85*	**3.86**	155.1	**2.17**	*36.0*	43.5	111.6	18.9	12.6				**1.0**	0.7	0.3					0.0	0.0	0.7	148.2	0.0	0.0	0.3	214.5
27-Mar-13	**24.0**		All good.	0.9			0		60	65						723			*5.0 /0/ 0.0*				*85*	**3.92**	157.5	**2.15**	*36.0*	45.5	112.0						**2.4**	2.0	0.4					0.0	0.0	2.0	150.2	0.0	0.0	0.4	214.9
28-Mar-13	**24.0**		Started injection of demulsifier into flowline. Champion chemical.	0.9			0		60	65						720			*5.0 /0/ 0.0*				*85*	**3.98**	159.9	**2.15**	*35.0*	47.8	112.1						**2.4**	2.3	0.1					0.0	0.0	2.3	152.5	0.0	0.0	0.1	215.0
29-Mar-13	**24.0**		Shut off demulsifier. No suction check valve on suction line so pump was not pumping right. Ordered parts.	0.9			0		110	40						727			*5.0 /0/ 0.0*				*85*	**4.02**	161.5	**2.18**	*34.0*	48.8	112.7						**1.6**	1.0	0.6					0.0	0.0	1.0	153.5	0.0	0.0	0.6	215.6
30-Mar-13	**24.0**		All good.	0.9			0		120	50						724			*5.0 /0/ 0.0*				*85*	**4.10**	164.8	**2.18**	*33.0*	51.7	113.1						**3.2**	2.9	0.3					0.0	0.0	2.9	156.4	0.0	0.0	0.3	215.9
31-Mar-13	**24.0**		All good.	0.9			0		110	40						721			*5.0 /0/ 0.0*				*85*	**4.20**	168.8	**2.18**	*32.0*	55.2	113.6						**4.0**	3.5	0.5					0.0	0.0	3.5	159.9	0.0	0.0	0.5	216.4
01-Apr-13	**24.0**		Got production chemicals pumping again.	0.9			0		110	50						723			*10.0 /0/ 0.0*				*85*	**4.28**	172.0	**2.18**	*31.0*	58.2	113.8						**3.2**	3.0	0.2					0.0	0.0	3.0	162.9	0.0	0.0	0.2	216.6
02-Apr-13	**24.0**		Production really dropping off.	0.9			0		90	30						730			*20.0 /0/ 0.0*				*85*	**4.30**	172.8	**2.18**	*31.0*	58.8	114.0						**0.8**	0.6	0.2					0.0	0.0	0.6	163.5	0.0	0.0	0.2	216.8
03-Apr-13	**24.0**		Cut back on PCP rpm. Had climbed up to 140rpm. Production has dropped off. Slowed to 113 to see if it helps production. Clean water at 4' on tank. 11.5' seems a little drier	0.9			0		60	50						731			*20.0 /0/ 0.0*				*85*	**4.34**	174.4	**2.17**	*31.0*	60.2	114.2						**1.6**	1.4	0.2					0.0	0.0	1.4	164.9	0.0	0.0	0.2	217.0
04-Apr-13	**24.0**		Production coming back.	0.9			0		90	50						733			*10.0 /0/ 0.0*				*85*	**4.40**	176.8	**2.17**	*31.0*	61.8	115.0						**2.4**	1.6	0.8					0.0	0.0	1.6	166.5	0.0	0.0	0.8	217.8
05-Apr-13	**24.0**		All good.	0.9			0		90	60						747			*10.0 /0/ 0.0*				*85*	**4.46**	179.2	**2.17**	*31.0*	63.5	115.7						**2.4**	1.7	0.7					0.0	0.0	1.7	168.2	0.0	0.0	0.7	218.5
06-Apr-13	**24.0**		Swung well to testers at 14:00. Casing and tubing tied together. Having trouble with their flowline pressuring up but it is still moving. Thick oil.	0.9			0		90	70						753			*10.0 /0/ 0.0*				*85*	**4.54**	182.4	**2.17**	*31.0*	65.7	116.7						**3.2**	2.2	1.0					0.0	0.0	2.2	170.4	0.0	0.0	1.0	219.5

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6			785.9	3166.6			6.3	63.7	6.3		779.6		63.0		3102.9	
07-Apr-13	24.0		Swung well back to our tank at 15:00. Well was having a hard time flowing to the testers due to the temperature and real heavy oil.	0.9			0		90	60						735			*5.0 /0/ 0.0*				*85*	4.60	184.9	2.17	*31.0*	67.4	117.5			2.4	1.7	0.7					0.0	0.0	1.7	172.1	0.0	0.0	0.7	220.2
08-Apr-13	24.0		Testers cleaned out P-tank and rigged out and left site. DP2 production low. Really thick oil coming back. Increased recirc. Champion out to take samples from tank. Oil cut came back at 9%bs&w. Continuing to monitor. Shipped out 15m3 with combo to Tervita from P-tank and 400bbl tank. (ticket 3060)	2			0		60	50						698			*5.0 /0/ 0.0*				*85*	4.31	173.2	2.17	*20.0*	68.8	104.4	0.8	14.2	3.3	2.2	1.1					0.0	0.0	2.2	174.3	0.0	0.0	1.1	221.3
09-Apr-13	24.0		no check													686								4.38	176.0	2.17	*20.5*	70.6	105.4			2.8	1.8	1.0					0.0	0.0	1.8	176.1	0.0	0.0	1.0	222.3
10-Apr-13	24.0		Well only made roughly 1m3 in last two days. Hydraulic drive pressure is surging. Torque is bouncing from 200 to around 500ft/lbs. Oil coming out is really thick. Increased recirc to 10m3/d and turned on chemical and ran for 3 hours. Returns started to get really wet and production increased. cut back recirc to around 4m3 and will let run for the night. Cut back on PCP speed to 100rpm.	3.7			10		60	50						674			*5.0 /0/ 0.0*				*85*	4.45	178.8	2.17	*21.0*	72.4	106.4			2.8	1.8	1.0					0.0	0.0	1.8	177.9	0.0	0.0	1.0	223.3
11-Apr-13	24.0		Cut back on recirc. Injecting more than the well is producing. Mostly water coming back. Torque back to normal it seems.	2.5			10		60	50						644			*95.0 /0/ 0.0*				*85*	4.52	181.6	2.17	*21.5*	74.1	107.5			2.8	1.7	1.1					0.0	0.0	1.7	179.6	0.0	0.0	1.1	224.4
12-Apr-13	24.0		Cut back on recirc water flow. Well is producing but the flow is low. Drive pressure seems to be smoothing out.	1.8			10		60	50						593			*90.0 /0/ 0.0*				*85*	4.54	182.4	2.17	*21.5*	74.8	107.6			0.8	0.7	0.1					0.0	0.0	0.7	180.3	0.0	0.0	0.1	224.5
13-Apr-13	24.0		Torque dropping. Production still low.	1.8			10		60	50						567			*90.0 /0/ 0.0*				*85*	4.56	183.2	2.17	*21.5*	75.4	107.8			0.8	0.6	0.2					0.0	0.0	0.6	180.9	0.0	0.0	0.2	224.7
14-Apr-13	24.0		Normal check. Production still low. Spurts of gas coming up tubing.	1.8			10		60	50						565			*gas*				*85*	4.60	184.9	2.17	*21.5*	76.7	108.2			1.6	1.3	0.3					0.0	0.0	1.3	182.2	0.0	0.0	0.3	225.0
15-Apr-13	23.5		Increased PCP rpm to 135. Cut back on water recirc to .9m3/d. Changed oil in driver 3244hrs.	0.9			10		60	50						574			*90.0 /0/ 0.0*				*86*	4.64	186.5	2.17	*21.5*	77.9	108.6			1.6	1.2	0.4					0.0	0.0	1.2	183.4	0.0	0.0	0.4	225.4
16-Apr-13	24.0		Made good fluid production overnight. Left as is.	0.9			10		60	50						603			*95.0 /0/ 0.0*				*85*	4.76	191.3	2.17	*21.5*	81.7	109.6			4.8	3.8	1.0					0.0	0.0	3.8	187.2	0.0	0.0	1.0	226.4
17-Apr-13	24.0		Well finally started pumping good. Cut back on rpm slightly. Oil cut back to normal. Thick oil coming up.	0.9			10		110	120						727			*5.0 /0/ 0.0*				*84*	4.90	196.9	2.17	*21.5*	86.1	110.8			5.6	4.4	1.2					0.0	0.0	4.4	191.6	0.0	0.0	1.2	227.6
18-Apr-13	24.0		All good.	0.9			10		120	145						750			*5.0 /0/ 0.0*				*85*	4.97	199.7	2.17	*21.5*	88.3	111.4			2.8	2.2	0.6					0.0	0.0	2.2	193.8	0.0	0.0	0.6	228.2
19-Apr-13	24.0		No Change	0.9			10		120	160						757			*10.0 /0/ 0.0*				*85*	5.05	202.9	2.17	*21.5*	90.9	112.0			3.2	2.6	0.6					0.0	0.0	2.6	196.4	0.0	0.0	0.6	228.8
20-Apr-13	24.0		All good.	0.9			10		90	60						747			*20.0 /0/ 0.0*				*86*	5.15	207.0	2.17	*21.5*	94.0	113.0			4.0	3.1	0.9					0.0	0.0	3.1	199.5	0.0	0.0	0.9	229.7
21-Apr-13	24.0		Water cut coming up **edit fluid level**	0.9			10		200	210						737			*50.0 /0/ 0.0*				*86*	5.21	209.4	2.17	*21.5*	95.9	113.5			2.4	1.9	0.5					0.0	0.0	1.9	201.4	0.0	0.0	0.5	230.2
22-Apr-13	24.0		Fluid production dropped off. Opened up on casing gas and starting to bleed pressure off.	0.9			10		50	240						723			*90.0 /0/ 0.0*				*86*	5.27	211.8	2.17	*21.5*	97.8	114.0			2.4	1.9	0.5					0.0	0.0	1.9	203.3	0.0	0.0	0.5	230.7
23-Apr-13	24.0		Casing gas bled off more than expected. Well still not producing. Shut off chemical injection and blocked in casing gas to help build casing pressure back up. Cut back on PCP rpm slightly. Fluid level is climbing up. PCP is just not grabbing it.	0.8			0		50	60						623			*gas*				*86*	5.28	212.2	2.17	*21.5*	98.1	114.1			0.4	0.3	0.1					0.0	0.0	0.3	203.6	0.0	0.0	0.1	230.8
24-Apr-13	24.0		Well producing very thick oil. Drive pressure bouncing quite a bit.	0.9			0		50	60						595			*5.0 /0/ 0.0*				*85*	5.28	212.2	2.17	*21.5*	98.1	114.1			0.0	0.0	0.0					0.0	0.0	0.0	203.6	0.0	0.0	0.0	230.8
25-Apr-13	24.0		Well producing but very little. Turned on chemical injection and increased PCP rpm.	0.9			10		50	60						570			*20.0 /0/ 0.0*				*85*	5.28	212.2	2.17	*21.5*	98.1	114.1			0.0	0.0	0.0					0.0	0.0	0.0	203.6	0.0	0.0	0.0	230.8
26-Apr-13	24.0		Production coming back up. Starting to pull down fluid level again.	0.9			10		60	45						589			*90.0 /0/ 0.0*				*84*	5.34	214.6	2.17	*21.5*	100.0	114.6			2.4	1.9	0.5					0.0	0.0	1.9	205.5	0.0	0.0	0.5	231.3
27-Apr-13	24.0		All good.	0.9			10		50	40						599			*90.0 /0/ 0.0*				*86*	5.44	218.6	2.17	*22.0*	102.5	116.1			4.0	2.5	1.5					0.0	0.0	2.5	208.0	0.0	0.0	1.5	232.8
28-Apr-13	24.0		Production dropped a bit.	0.9			10		50	50						574			*90.0 /0/ 0.0*				*87*	5.46	219.4	2.17	*22.0*	103.1	116.3			0.8	0.6	0.2					0.0	0.0	0.6	208.6	0.0	0.0	0.2	233.0
29-Apr-13	24.0		Increased PCP to 140rpm. Production increased. Still pretty wet sample.	0.9			10		60	60						583			*90.0 /0/ 0.0*				*84*	5.50	221.0	2.17	*22.0*	104.4	116.6			1.6	1.3	0.3					0.0	0.0	1.3	209.9	0.0	0.0	0.3	233.3
30-Apr-13	24.0		All good.	0.9			10		60	50						604			*90.0 /0/ 0.0*				*83*	5.62	225.8	2.17	*23.0*	106.8	119.0			4.8	2.4	2.4					0.0	0.0	2.4	212.3	0.0	0.0	2.4	235.7
01-May-13	24.0		All good. Speed had climbed to 150. Cut back to 140rpm. Oil Cut back.	0.9			10		80	95						621			*10.0 /0/ 0.0*				*86*	5.74	230.7	2.17	*23.0*	110.5	120.2			4.8	3.7	1.1					0.0	0.0	3.7	216.0	0.0	0.0	1.1	236.8
02-May-13	24.0		Production dropped off again. Sample still showing lots of oil.	0.9			10		120	100						593			*10.0 /0/ 0.0*				*85*	5.76	231.5	2.17	*23.0*	111.1	120.4			0.8	0.6	0.2					0.0	0.0	0.6	216.6	0.0	0.0	0.2	237.0
03-May-13	24.0		PCP rpm had sped up to 150. cut back to 140 rpm.	0.9			10		60	100						592			*10.0 /0/ 0.0*				*86*	5.80	233.1	2.17	*23.0*	112.3	120.8			1.6	1.2	0.4					0.0	0.0	1.2	217.8	0.0	0.0	0.4	237.4
04-May-13	24.0		All good.	0.9			10		80	100						586			*10.0 /0/ 0.0*				*85*	5.86	235.5	2.17	*23.0*	114.2	121.3			2.4	1.9	0.5					0.0	0.0	1.9	219.7	0.0	0.0	0.5	237.9
05-May-13	24.0		Opened up the casing gas to allow it to bleed off as it climbs.	0.95			10		110	110						571			*10.0 /0/ 0.0*				*85*	5.90	237.1	2.17	*23.0*	115.4	121.7			1.6	1.2	0.4					0.0	0.0	1.2	220.9	0.0	0.0	0.4	238.3
06-May-13	24.0		Casing pressure lower but still building. Water cut came up as well. Seems when casing pressure gets below 70kPa or so the water cut comes up. Well producing good.	0.95			10		60	50						591			*50.0 /0/ 0.0*				*85*	5.96	239.5	2.17	*23.0*	117.3	122.2			2.4	1.9	0.5					0.0	0.0	1.9	222.8	0.0	0.0	0.5	238.8
07-May-13	24.0		Casing pressure coming back. Oil cut coming back now as well.	0.9			10		90	80						610			*10.0 /0/ 0.0*				*85*	6.08	244.3	2.17	*23.0*	121.0	123.3			4.8	3.7	1.1					0.0	0.0	3.7	226.5	0.0	0.0	1.1	239.9
08-May-13	24.0		All good.	1			10		90	80						599			*10.0 /0/ 0.0*				*85*	6.14	246.7	2.17	*23.0*	122.8	123.9			2.4	1.8	0.6					0.0	0.0	1.8	228.3	0.0	0.0	0.6	240.5
09-May-13	24.0		All good.	1			10		90	100						623			*10.0 /0/ 0.0*				*85*	6.24	250.8	2.17	*23.0*	125.9	124.9			4.0	3.1	0.9					0.0	0.0	3.1	231.4	0.0	0.0	0.9	241.4
10-May-13	24.0		Production dropped off again. Still flowing but low.	1			10		130	110						639			*10.0 /0/ 0.0*				*86*	6.26	251.6	2.17	*23.0*	126.6	125.0			0.8	0.7	0.1					0.0	0.0	0.7	232.1	0.0	0.0	0.1	241.5
11-May-13	24.0		Still flowing but low production	1			10		60	110						589			*30.0 /0/ 0.0*				*85*	6.28	252.4	2.17	*23.0*	127.2	125.2			0.8	0.6	0.2					0.0	0.0	0.6	232.7	0.0	0.0	0.2	241.7
12-May-13	24.0		No change in tank level. Cut PCP to 130 rpm. Drive pressure surging.	1			10		60	115						564			*60.0 /0/ 0.0*				*84*	6.28	252.4	2.17	*23.0*	127.2	125.2			0.0	0.0	0.0					0.0	0.0	0.0	232.7	0.0	0.0	0.0	241.7
13-May-13	24.0		Production coming back. Drive pressure smoothing out.	1			10		70	130						567			*70.0 /0/ 0.0*				*86*	6.30	253.2	2.17	*23.0*	127.8	125.4			0.8	0.6	0.2					0.0	0.0	0.6	233.3	0.0	0.0	0.2	241.9
14-May-13	24.0		Flowing but very little.	1			10		65	130						559			*70.0 /0/ 0.0*				*86*	6.32	254.0	2.17	*23.0*	128.4	125.6			0.8	0.6	0.2					0.0	0.0	0.6	233.9	0.0	0.0	0.2	242.1
15-May-13	24.0		Cut back on injection chemical to 5L/d. Increased PCP to 135rpm	1			5		60	120						542			*90.0 /0/ 0.0*				*86*	6.36	255.6	2.18	*23.0*	129.3	126.3			1.6	0.9	0.7					0.0	0.0	0.9	234.8	0.0	0.0	0.7	242.8
16-May-13	24.0		Really good production. Left as is.	0.9			5		65	125						542			*30.0 /0/ 0.0*				*86*	6.40	257.2	2.25	*22.0*	130.1	127.1			1.6	0.8	0.8					0.0	0.0	0.8	235.6	0.0	0.0	0.8	243.6
17-May-13	24.0		PIT onsite to download data from fluid guns and change out N2 bottles.	0.9			5		80	140						564			*20.0 /0/ 0.0*				*86*	6.50	261.2	2.33	*21.0*	132.4	128.8			4.0	2.3	1.7					0.0	0.0	2.3	237.9	0.0	0.0	1.7	245.3
18-May-13	24.0		All good.	0.9			5		60	165						662			*10.0 /0/ 0.0*				*86*	6.55	263.2	2.40	*20.0*	133.4	129.8			2.0	1.0	1.0					0.0	0.0	1.0	238.9	0.0	0.0	1.0	246.3
19-May-13	24.0		All good.	0.9			5		70	170						614			*20.0 /0/ 0.0*				*85*	6.60	265.2	2.40	*20.0*	135.0	130.2			2.0	1.6	0.4					0.0	0.0	1.6	240.5	0.0	0.0	0.4	246.7
20-May-13	24.0		Equalized tank 2 into tank 1 to make more room.	0.9			5		90	170						718			*40.0 /0/ 0.0*				*84*	6.00	241.1	1.80	*20.0*	135.0	106.1	24.5		0.4	0.0	0.4					0.0	0.0	0.0	240.5	0.0	0.0	0.4	247.1

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	% Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6		785.9	3166.6		6.3	63.7	6.3		779.6		63.0		3102.9	
21-May-13	24.0		Speed at 160 when arrived onsite. Cut back to 135rpm. Well didn't produce overnight due to high speed.	0.9			5		90	180						531			*10.0*	*/0/*	*0.0*		*85*	**6.00**	241.1	**1.80**	*20.0*	135.0	106.1			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	240.5	0.0	0.0	0.0	247.1
22-May-13	24.0		All good.	0.9			5		70	200						578			*10.0*	*/0/*	*0.0*		*86*	**6.00**	241.1	**1.80**	*20.0*	135.0	106.1			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	240.5	0.0	0.0	0.0	247.1
23-May-13	24.0		Changed out N2 bottle on fluid gun.	0.9			5		80	210						541			*10.0*	*/0/*	*0.0*		*84*	**6.02**	241.9	**1.80**	*20.0*	135.7	106.2			**0.8**	**0.7**	**0.1**					0.0	0.0	0.7	241.2	0.0	0.0	0.1	247.2
24-May-13	24.0		All good.	0.9			5		80	215						552			*10.0*	*/0/*	*0.0*		*85*	**6.06**	243.5	**1.80**	*20.0*	137.0	106.5			**1.6**	**1.3**	**0.3**					0.0	0.0	1.3	242.5	0.0	0.0	0.3	247.5
25-May-13	24.0		All good. Opened up a bit on casing gas reg. Oil pretty thick so slowing pump speed a bit. Left as is to see if it would continue pumping.	0.9			4		90	230						566			*5.0*	*/0/*	*0.0*		*86*	**6.10**	245.1	**1.81**	*20.0*	137.9	107.2			**1.6**	**0.9**	**0.7**					0.0	0.0	0.9	243.4	0.0	0.0	0.7	248.2
26-May-13	24.0		Opened a bit more on casing gas reg.	0.9			4		90	220						535			*10.0*	*/0/*	*0.0*		*84*	**6.14**	246.7	**1.81**	*20.0*	139.2	107.5			**1.6**	**1.3**	**0.3**					0.0	0.0	1.3	244.7	0.0	0.0	0.3	248.5
27-May-13	24.0		Water recirc pump quit pumping. Oilflow will be out in morning to change out. Injection chemical off. Oil really thick and torque is up a bit.	0			0		70	110						605			*50.0*	*/0/*	*0.0*		*84*	**6.18**	248.3	**1.81**	*20.0*	140.5	107.8			**1.6**	**1.3**	**0.3**					0.0	0.0	1.3	246.0	0.0	0.0	0.3	248.8
28-May-13	24.0		Oilflow came out and replaced recirc pump. Recirc water and injection chem pumping again.	1.5			10		120	160						605			*10.0*	*/0/*	*0.0*		*85*	**6.20**	249.1	**1.81**	*20.0*	141.1	108.0			**0.8**	**0.6**	**0.2**					0.0	0.0	0.6	246.6	0.0	0.0	0.2	249.0
29-May-13	23.5		Changed oil in driver engine. 4297hrs. Shipped out 6m3 of water from tank. No change in production. Increased water recirc a bit. Oil coming up is pretty thick	2			10		120	190						581			*10.0*	*/0/*	*0.0*		*85*	**6.24**	250.8	**1.81**	*20.0*	142.4	108.4			**1.6**	**1.3**	**0.3**					0.0	0.0	1.3	247.9	0.0	0.0	0.3	249.3
30-May-13	24.0		Cut back on water recirc and chemical injection as torque has come down and oil isnt so thick	1			5		75	100						542			*5.0*	*/0/*	*0.0*		*86*	**6.26**	251.6	**1.81**	*20.0*	143.1	108.5			**0.8**	**0.7**	**0.1**					0.0	0.0	0.7	248.6	0.0	0.0	0.1	249.4
31-May-13	24.0		PIT onsite to download the data from the fluid guns.	1			5		60	90						547			*70.0*	*/0/*	*0.0*		*84*	**6.28**	252.4	**1.82**	*20.0*	143.4	109.0			**0.8**	**0.3**	**0.5**					0.0	0.0	0.3	248.9	0.0	0.0	0.5	249.9
01-Jun-13	24.0		All good.	1			5		70	110						572			*20.0*	*/0/*	*0.0*		*84*	**6.32**	254.0	**1.82**	*20.0*	144.7	109.3			**1.6**	**1.3**	**0.3**					0.0	0.0	1.3	250.2	0.0	0.0	0.3	250.2
02-Jun-13	24.0		Oil really thick. Bringing the torque up and slowing the speed.	1			5		90	130						583			*5.0*	*/0/*	*0.0*		*85*	**6.38**	256.4	**1.82**	*20.0*	146.6	109.8			**2.4**	**1.9**	**0.5**					0.0	0.0	1.9	252.1	0.0	0.0	0.5	250.7
03-Jun-13	24.0		Generator down so recirc and chemical injection pumps are off as well as tank burners. Well still flowing. Thick oil.	0			0		90	130						549			*5.0*	*/0/*	*0.0*			**6.42**	258.0	**1.82**	*20.0*	147.9	110.1			**1.6**	**1.3**	**0.3**					0.0	0.0	1.3	253.4	0.0	0.0	0.3	251.0
04-Jun-13	24.0		Changed alternator on generator. Restarted recirc and chemical injection pumps.	1			5		110	135						534			*10.0*	*/0/*	*0.0*		*78*	**6.50**	261.2	**1.84**	*20.0*	149.8	111.4			**3.2**	**1.9**	**1.3**					0.0	0.0	1.9	255.3	0.0	0.0	1.3	252.3
05-Jun-13	24.0		Turn RPM down to 134 on hydraulic pump. Running good.	1			2		200	150						588			*20.0*	*/0/*	*0.0*		*84*	**6.58**	264.4	**1.84**	*20.0*	152.4	112.0			**3.2**	**2.6**	**0.6**					0.0	0.0	2.6	257.9	0.0	0.0	0.6	252.9
06-Jun-13	24.0		Generator down so recirc and chemical injection pumps are off as well as tank burners. Well still flowing. Thick oil.	0			0		120	160						573			*20.0*	*/0/*	*0.0*			**6.60**	265.2	**1.85**	*20.0*	152.7	112.5			**0.8**	**0.3**	**0.5**					0.0	0.0	0.3	258.2	0.0	0.0	0.5	253.4
07-Jun-13	24.0		Still flowing. Thick oil. Brittania to be out in morning to repair generator.	0			0		90	180						563			*10.0*	*/0/*	*0.0*			**6.68**	268.4	**1.85**	*20.0*	155.3	113.1			**3.2**	**2.6**	**0.6**					0.0	0.0	2.6	260.8	0.0	0.0	0.6	254.0
08-Jun-13	23.0		Generator back running. Restarted recirc and chemical injection and burner. Oil really thick and torque high. Shut down driver for 1 hour for Brittania to service the engine	2.5			15		90	200						568			*5.0*	*/0/*	*0.0*		*77*	**6.72**	270.0	**1.85**	*20.0*	156.6	113.4			**1.6**	**1.3**	**0.3**					0.0	0.0	1.3	262.1	0.0	0.0	0.3	254.3
09-Jun-13	24.0		Cut back on recirc and chem injection. Oil lighter and torque has come down.	1.6			10		160	200						577			*5.0*	*/0/*	*0.0*		*86*	**6.74**	270.8	**1.85**	*20.0*	157.2	113.6			**0.8**	**0.6**	**0.2**					0.0	0.0	0.6	262.7	0.0	0.0	0.2	254.5
10-Jun-13	24.0		Cut back on chem injection.	1.3			4		90	200						540			*40.0*	*/0/*	*0.0*		*84*	**6.80**	273.3	**1.87**	*20.0*	158.5	114.8			**2.4**	**1.3**	**1.1**					0.0	0.0	1.3	264.0	0.0	0.0	1.1	255.6
11-Jun-13	24.0		Increased PCP to 160rpm. Well has been producing very little. Try and see if it helps.	1.2			4		70	130						538			*40.0*	*/0/*	*0.0*		*86*	**6.82**	274.1	**1.88**	*20.0*	158.8	115.3			**0.8**	**0.3**	**0.5**					0.0	0.0	0.3	264.3	0.0	0.0	0.5	256.1
12-Jun-13	24.0		All good.	1.2			4		110	150						575			*50.0*	*/0/*	*0.0*		*86*	**6.94**	278.9	**1.88**	*20.7*	161.2	117.7			**4.8**	**2.4**	**2.4**					0.0	0.0	2.4	266.7	0.0	0.0	2.4	258.5
13-Jun-13	24.0		All good.	1.2			4		120	160						556			*40.0*	*/0/*	*0.0*		*86*	**6.98**	280.5	**1.88**	*20.9*	162.1	118.4			**1.6**	**0.9**	**0.7**					0.0	0.0	0.9	267.6	0.0	0.0	0.7	259.2
14-Jun-13	24.0		PIT onsite. Removed the fluid gun from DP2. Equalized water from tank 2 into tank 1. Cut back on water recirc	1			4		80	200						595			*20.0*	*/0/*	*0.0*		*84*	**5.71**	229.5	**0.90**	*15.5*	163.3	66.2		53.0	**2.0**	**1.2**	**0.8**					0.0	0.0	1.2	268.8	0.0	0.0	0.8	260.0
15-Jun-13	24.0		All good.	0.8			4		110	190									*10.0*	*/0/*	*0.0*		*85*	**5.74**	230.7	**0.90**	*15.5*	164.3	66.4			**1.2**	**1.0**	**0.2**					0.0	0.0	1.0	269.8	0.0	0.0	0.2	260.2
16-Jun-13	24.0		Propane running low. Truck has been unable to deliver due to wet conditions.	0.8			4		90	190									*10.0*	*/0/*	*0.0*		*85*	**5.78**	232.3	**0.90**	*15.5*	165.7	66.6			**1.6**	**1.4**	**0.2**					0.0	0.0	1.4	271.2	0.0	0.0	0.2	260.4
17-Jun-13	9.0		Propane for PCP driver ran out. Shut off the recirc and chem injection. Truck will try coming out in morning.	0			0		110	140													*85*	**5.81**	233.5	**0.90**	*15.5*	166.7	66.8			**1.2**	**1.0**	**0.2**					0.0	0.0	1.0	272.2	0.0	0.0	0.2	260.6
18-Jun-13	8.5		Propane delivered. Restarted PCP driver, recirc and chem injection. All good.	1.2			6		60	140													*84*	**5.82**	233.9	**0.90**	*15.5*	167.1	66.8			**0.4**	**0.4**	**0.0**					0.0	0.0	0.4	272.6	0.0	0.0	0.0	260.6
19-Jun-13	24.0		Northern Cross onsite to repair the truck loading area. Shipped load of oil (to Tervita, ticket# 31453), Cut 28.9 and 30.09m3. Cut back on chem injection.	0.9			4		60	110									*50.0*	*/0/*	*0.0*		*85*	**5.12**	205.7	**1.00**	*12.0*	145.7	60.0	21.9	7.5	**1.3**	**0.5**	**0.8**					0.0	0.0	0.5	273.1	0.0	0.0	0.8	261.4
20-Jun-13	24.0		PCP rpm at 130. seems like some heavier oil coming in. Torque up. Sped up to 148. Shipped load of oil (to Tervita, ticket# 31454)	0.9			3		60	140									*50.0*	*/0/*	*0.0*		*86*	**4.44**	178.4	**1.00**	*12.5*	121.0	57.4	25.4	3.6	**1.7**	**0.7**	**1.0**					0.0	0.0	0.7	273.8	0.0	0.0	1.0	262.4
21-Jun-13	24.0		Torque back down. Rpm was at 177. Slowed to 160.	0.9			3		60	130									*60.0*	*/0/*	*0.0*		*85*	**4.45**	178.8	**1.00**	*12.5*	121.3	57.5			**0.4**	**0.3**	**0.1**					0.0	0.0	0.3	274.1	0.0	0.0	0.1	262.5
22-Jun-13	24.0		All good.	0.9			3		80	140									*20.0*	*/0/*	*0.0*		*84*	**4.48**	180.0	**1.00**	*12.7*	122.1	57.9			**1.2**	**0.8**	**0.4**					0.0	0.0	0.8	274.9	0.0	0.0	0.4	262.9
23-Jun-13	24.0		All good.	0.9			3		170	130									*10.0*	*/0/*	*0.0*		*83*	**4.50**	180.8	**1.00**	*12.7*	122.8	58.0			**0.8**	**0.7**	**0.1**					0.0	0.0	0.7	275.6	0.0	0.0	0.1	263.0
24-Jun-13	24.0		All good.	0.9			3		60	160									*20.0*	*/0/*	*0.0*		*85*	**4.55**	182.8	**1.00**	*13.1*	124.0	58.8			**2.0**	**1.2**	**0.8**					0.0	0.0	1.2	276.8	0.0	0.0	0.8	263.8
25-Jun-13	24.0		Shipped out load of oil to tervita, ticket# 31429. All good.	0.9			3		170	210									*50.0*	*/0/*	*0.0*		*82*	**3.85**	154.7	**0.93**	*12.5*	102.7	52.0	22.3	7.6	**1.8**	**1.0**	**0.8**					0.0	0.0	1.0	277.8	0.0	0.0	0.8	264.6
26-Jun-13	24.0		3" of rain overnight. Site very wet.	0.9			3		60	120									*10.0*	*/0/*	*0.0*		*84*	**3.87**	155.5	**0.93**	*12.6*	103.3	52.2			**0.8**	**0.6**	**0.2**					0.0	0.0	0.6	278.4	0.0	0.0	0.2	264.8
27-Jun-13	24.0		Tank burner tripped on high temp. Left down	0.9			3		40	150									*20.0*	*/0/*	*0.0*		*86*	**3.90**	156.7	**0.93**	*12.6*	104.3	52.4			**1.2**	**1.0**	**0.2**					0.0	0.0	1.0	279.4	0.0	0.0	0.2	265.0
28-Jun-13	24.0		Shipped out load of oil. Truck got stuck when trying to pull offlease. Another truck came and pulled him out. Restarted tank burner	0.9			3		60	130									*20.0*	*/0/*	*0.0*		*67*	**3.16**	127.0	**0.87**	*12.4*	80.6	46.4	24.0	6.2	**0.5**	**0.3**	**0.2**					0.0	0.0	0.3	279.7	0.0	0.0	0.2	265.2
29-Jun-13	24.0		All good.	0.9			3		50	130									*50.0*	*/0/*	*0.0*		*84*	**3.17**	127.4	**0.87**	*12.5*	80.9	46.5			**0.4**	**0.3**	**0.1**					0.0	0.0	0.3	280.0	0.0	0.0	0.1	265.3
30-Jun-13	24.0		All good	0.8			3		80	130									*20.0*	*/0/*	*0.0*		*84*	**3.18**	127.8	**0.87**	*12.4*	81.3	46.5			**0.4**	**0.4**	**0.0**					0.0	0.0	0.4	280.4	0.0	0.0	0.0	265.3
01-Jul-13	24.0		Production still low. Hyd drive pressure bouncing. Increased chem injection to try and even it out.	0.8			8		110	130									*10.0*	*/0/*	*0.0*		*85*	**3.18**	127.8	**0.87**	*12.4*	81.3	46.5			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	280.4	0.0	0.0	0.0	265.3
02-Jul-13	24.0		All good.	0.8			8		60	130									*10.0*	*/0/*	*0.0*		*85*	**3.19**	128.2	**0.87**	*12.5*	81.6	46.6			**0.4**	**0.3**	**0.1**					0.0	0.0	0.3	280.7	0.0	0.0	0.1	265.4
03-Jul-13	24.0		Tank Burner tripped. Restarted no problems. Oilflow onsite. Drained the chemical tank. Left enough to run through the weekend.	0.8			8		50	130									*10.0*	*/0/*	*0.0*		*71*	**3.19**	128.2	**0.87**	*12.5*	81.6	46.6			**0.0**	**0.0**	**0.0**					0.0	0.0	0.0	280.7	0.0	0.0	0.0	265.4
04-Jul-13	24.0		All good.	0.9			8		90	150									*20.0*	*/0/*	*0.0*		*84*	**3.20**	128.6	**0.87**	*12.6*	81.8	46.8			**0.4**	**0.2**	**0.2**					0.0	0.0	0.2	280.9	0.0	0.0	0.2	265.6

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6		785.9	3166.6		6.3	63.7	6.3		779.6		63.0		3102.9	
05-Jul-13	**24.0**		Recirc pump quit pumping. Reset and started back fine.	0.8			8		160	170									*20.0*	*/0/*	*0.0*		*84*	**3.21**	129.0	**0.87**	*12.6*	82.2	46.8			**0.4**	0.4	0.0					0.0	0.0	0.4	281.3	0.0	0.0	0.0	265.6
06-Jul-13	**24.0**		All good	0.9			8		40	180									*50.0*	*/0/*	*0.0*		*85*	**3.23**	129.8	**0.87**	*12.8*	82.7	47.1			**0.8**	0.5	0.3					0.0	0.0	0.5	281.8	0.0	0.0	0.3	265.9
07-Jul-13	**24.0**		All good.	0.9			8		50	160									*20.0*	*/0/*	*0.0*		*85*	**3.25**	130.6	**0.87**	*13.0*	83.2	47.4			**0.8**	0.5	0.3					0.0	0.0	0.5	282.3	0.0	0.0	0.3	266.2
08-Jul-13	**12.0**	Suspended	Shut in well at noon. Northern Cross onsite. We disconected DP2 drive unit and they took back to yard for Brittania to come and pick it up there. Disconected the oilflow recirc and chemical injection pump skids. N-Cross will come and pick them up in the morning and deliver them to Oilflows yard.	0			0		50	150									*0.0*	*/0/*	*0.0*		*84*	**3.26**	131.0	**0.87**	*13.2*	83.4	47.6			**0.4**	0.2	0.2					0.0	0.0	0.2	282.5	0.0	0.0	0.2	266.4
09-Jul-13	**0.0**	Shut in	N-Cross picked up oilflow skids and took them to town. Installed flanges on bottom of tanks to pull water level down in order to drain tanks. Shipped out load of emulsion (28m3 from DP1, 5m3 from DP2) to Newalta. Ticket# 31382																				*84*	**3.14**	126.0	**0.87**	*12.7*	79.5	46.5	3.9	1.1	**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
10-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5	29.5	16.0	**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
11-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
12-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
13-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
14-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
15-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
16-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
17-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
18-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
19-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
20-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
21-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
22-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
23-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
24-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.60**	*11.4*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
25-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
26-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
27-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
28-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
29-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
30-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
31-Jul-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
01-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
02-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
03-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
04-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
05-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
06-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
07-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
08-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
09-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
10-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
11-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
12-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
13-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
14-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
15-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
16-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
17-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
18-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
19-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
20-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
21-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
22-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
23-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
24-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
25-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
26-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
27-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
28-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
29-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
30-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
31-Aug-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
01-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
02-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
03-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
04-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
05-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
06-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
07-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
08-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
09-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
10-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
11-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3							
Total:	9285.0																													781.38	3174.6					6.3		779.6		63.0		3102.9	
12-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
13-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
14-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
15-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
16-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
17-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
18-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
19-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
20-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
21-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
22-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
23-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
24-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
25-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
26-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
27-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
28-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
29-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
30-Sep-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
01-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
02-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
03-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
04-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
05-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
06-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
07-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
08-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
09-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
10-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
11-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
12-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
13-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
14-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
15-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
16-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
17-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
18-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
19-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
20-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
21-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
22-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
23-Oct-13	**0.0**	Shut in																					*84*	**2.00**	80.5	**0.62**	*10.0*	50.0	30.5			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	266.4
24-Oct-13	**3.0**	Shut in	Shipped out 40m3 (ticket 31527) and 23m3 (ticket 31528) to Newalta.																					**0.48**	19.3	**0.00**	*0.0*	19.3	0.0	30.7	32.3	**1.8**	0.0	1.8					0.0	0.0	0.0	282.5	0.0	0.0	1.8	268.2
25-Oct-13	**0.0**	Shut in																						**0.48**	19.3	**0.00**	*0.0*	19.3	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
26-Oct-13	**0.0**	Shut in																						**0.48**	19.3	**0.00**	*0.0*	19.3	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
27-Oct-13	**0.0**	Shut in																						**0.48**	19.3	**0.00**	*0.0*	19.3	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
28-Oct-13	**0.0**	Shut in																						**0.48**	19.3	**0.00**	*0.0*	19.3	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
29-Oct-13	**0.0**	Shut in																						**0.48**	19.3	**0.00**	*0.0*	19.3	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
30-Oct-13	**0.0**	Shut in	Shipped to Tervita H.Prarie, ticket 3551																					**0.43**	17.3	**0.00**	*0.0*	17.3	0.0	2.0		**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
31-Oct-13	**0.0**	Shut in	Shipped to Tervita H.Prarie, ticket 3552																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0	0.6		**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
01-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
02-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
03-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
04-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
05-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
06-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
07-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
08-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
09-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
10-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
11-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
12-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
13-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
14-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
15-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
16-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
17-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
18-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
19-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
20-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
21-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
22-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
23-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
24-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
25-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
26-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
27-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
28-Nov-13	**0.0**	Shut in																						**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6		785.9	3166.6			6.3	63.7	6.3	779.6		63.0	3102.9	
29-Nov-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
30-Nov-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
01-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
02-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
03-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
04-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
05-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
06-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
07-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
08-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
09-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
10-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
11-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
12-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
13-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
14-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
15-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
16-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
17-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
18-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
19-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
20-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
21-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
22-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
23-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
24-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
25-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
26-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
27-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
28-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
29-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
30-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
31-Dec-13	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
01-Jan-14	**0.0**	Shut in																					**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
02-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
03-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
04-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
05-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
06-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
07-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
08-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
09-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
10-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
11-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
12-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
13-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
14-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
15-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
16-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
17-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
18-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
19-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
20-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
21-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
22-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
23-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
24-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
25-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
26-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
27-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
28-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
29-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
30-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
31-Jan-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
01-Feb-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
02-Feb-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
03-Feb-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
04-Feb-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
05-Feb-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
06-Feb-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
07-Feb-14	**0.0**	Shut in				0	0																**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
08-Feb-14	**0.0**	Shut in				0	0	54															**0.42**	16.7	**0.00**	*0.0*	16.7	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
09-Feb-14	**0.0**	Shut in				0	0																**0.12**	4.9	**0.00**	*0.0*	4.9	0.0	11.8		**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
10-Feb-14	**0.0**	Shut in				0	0																**0.12**	4.9	**0.00**	*0.0*	4.9	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
11-Feb-14	**0.0**	Shut in				0	0																**0.12**	4.9	**0.00**	*0.0*	4.9	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
12-Feb-14	**0.0**	Shut in				0	0																**0.12**	4.9	**0.00**	*0.0*	4.9	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
13-Feb-14	**0.0**	Shut in				0	0																**0.12**	4.9	**0.00**	*0.0*	4.9	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
14-Feb-14	**0.0**	Shut in				0	0																**0.12**	4.9	**0.00**	*0.0*	4.9	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
15-Feb-14	**0.0**	Shut in				0	0																**0.12**	4.9	**0.00**	*0.0*	4.9	0.0			**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6		785.9	3166.6			6.3	63.7	6.3		779.6		63.0		3102.9	
16-Feb-14	0.0	Shut in				0	0																	0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
17-Feb-14	12.5		First steam. Flow estimated	60		60	60	230	7400	1200														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
18-Feb-14	24.0		flow estimated	40		100	100	290	8000	1800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
19-Feb-14	24.0		flow estimated	20		120	120	295	8000	1800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
20-Feb-14	24.0		flow estimated	20		140	140	296	8000	1800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
21-Feb-14	24.0		flow estimated	20		160	160	296	8000	1900														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
22-Feb-14	24.0		flow estimated	20		180	180	296	8000	1900														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
23-Feb-14	24.0		flow estimated	20		200	200	296	8000	1900														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
24-Feb-14	24.0		Flow meter now working. Cut back flow to well to get within range of the orifice plate flow meter. Differential was overranging the meter. Bigger plate ordered which will allow more flow. Reduced flow is cooling temps.	25		225	225	285	6900	900														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
25-Feb-14	24.0		All good	29		254	254	286	6900	900														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
26-Feb-14	24.0		All good	29		283	283	285	6800	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
27-Feb-14	24.0		All good	29		312	312	285	6800	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
28-Feb-14	24.0		All good	31		343	343	286	6900	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
01-Mar-14	24.0		All good	31		31	374	285	6900	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
02-Mar-14	24.0		All good	30		61	404	286	6900	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
03-Mar-14	24.0		All good	32		93	436	286	6800	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
04-Mar-14	24.0		All good	32		125	468	285	6800	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
05-Mar-14	24.0		All good	32		157	500	285	6900	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
06-Mar-14	24.0		All good	31		188	531	285	6900	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
07-Mar-14	24.0		All good	31		219	562	286	6900	800														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
08-Mar-14	24.0		All good	32		251	594	286	6900	850														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
09-Mar-14	24.0		All good	32		283	626	286	7000	850														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
10-Mar-14	24.0		All good	32		315	658	287	7000	850														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
11-Mar-14	8.0		Boiler trip. Down for 5 hours and restarted. Left steam blocked in to DP2 and had contractor change out orifice plate on steam meter. New larger one had came in. Opened steam back to well and increased flow.	35		350	693	286	7000	900														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
12-Mar-14	24.0			40		390	733	290	7200	1200														0.12	4.9	0.00	*0.0*	4.9	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
13-Mar-14	13.0	Power Failure	Shut down plant to service generator. Had issue with spark plug and needed cummins service tech to fix. Will be out tomorrow. Plant down until then.	30		420	763	290	7000	1100														0.11	4.5	0.00	*0.0*	4.5	0.0	0.4		0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
14-Mar-14	1.0	Power Failure	Cummins tech onsite. Repaired generator and finished service. Started boiler and started to warm up			420	763																	0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
15-Mar-14	24.0		All good	40		460	803	290	7000	1200														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
16-Mar-14	24.0		All good	42		502	845	294	7400	1300														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
17-Mar-14	24.0		All good	44		546	889	294	7500	1600														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
18-Mar-14	24.0		All good	45		591	934	294	7800	1700														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
19-Mar-14	24.0		All good	47		638	981	295	7800	1700														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
20-Mar-14	24.0		All good	47		685	1028	294	7900	1700														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
21-Mar-14	24.0		All good. Increased flow to well with DP1 blocked in.	58		743	1086	296	8000	1900														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
22-Mar-14	24.0		All good	60		803	1146	296	8000	1900														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
23-Mar-14	24.0		All good	52		855	1198	296	8000	1900														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
24-Mar-14	16.5	Power Failure	Shutdown Plant for generator repair. Cummins out to work on power generator. Restarted once complete.	53		908	1251	292	7000	1400														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
25-Mar-14	24.0			54		962	1305	295	7800	1600														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
26-Mar-14	24.0			52		1014	1357	295	7800	1700														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
27-Mar-14	23.0		Cummins tech out. Switched power generators to a diesel unit supplied by cummins. They need to due an overhaul of the head on propane unit and it will be down for maybe a few weeks.	56		1070	1413	294	7800	1600														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
28-Mar-14	24.0			54		1124	1467	294	7800	1700														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
29-Mar-14	24.0			52		1176	1519	295	7800	1700														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
30-Mar-14	19.0		boiler trips	51		1227	1570	295	7800	1700														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
31-Mar-14	19.0		Shut in steam to wells for 5 hours to fix a steam leak on header. Flow estimated	45		1272	1615	295	7800	1500														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
01-Apr-14	24.0			53		53	1668	294	7700	1500														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
02-Apr-14	24.0			55		108	1723	294	7800	1600														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
03-Apr-14	24.0			54		162	1777	294	7800	1650														0.11	4.5	0.00	*0.0*	4.5	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
04-Apr-14	24.0			54		216	1831	294	7800	1700															0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
05-Apr-14	24.0			53		269	1884	296	7900	1700															0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
06-Apr-14	24.0			54		323	1938	300	7900	1700															0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
07-Apr-14	20.0		Boiler tripping on low gas pressure. Adjusted settings. Back up and running. flow estimated	54		377	1992	300	7700	1500															0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
08-Apr-14	11.5		Boiler still tripping on low gas pressure. Trouble with propane vaporizers. Superior propane tech to be out in the am. Boiler down till then. flow estimated	53		430	2045	299	6000	900															0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
09-Apr-14	6.0		Superior tech repaired the vaporizer. Restarted gen and steam back to the wells. flow estimated	54		484	2099	299	7000	1100															0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
10-Apr-14	11.0		Boiler feedwater pump stuffing box failed. Boiler down until repaired. Trying to find replacment. flow estimated	25		509	2124																		0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
11-Apr-14	0.0		Awaiting Feedwater pump from Kerrobert	0		509	2124																		0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
12-Apr-14	0.0		Awaiting Feedwater pump from Kerrobert	0		509	2124																		0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
13-Apr-14	0.0		Awaiting Feedwater pump from Kerrobert	0		509	2124																		0.0			0.0	0.0				0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3							
Total:	9285.0																													781.38	3174.6		785.9	3166.6		6.3	63.7	6.3		779.6		63.0		3102.9	
14-Apr-14	0.0		Feedwater pump arrived onsite. Starting to swap pumps.	0		509	2124																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
15-Apr-14	0.0		Feedwater pump installed. Tried to startup but the programming on the softening skid plc had faulted from being down. Programmer called to be onsite in the morning.	0		509	2124																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
16-Apr-14	13.0		Programmer fixed fault in programming. Restarted boiler and warmed up. Steam back to wells at 11:00. Slowly increasing flows.	30		539	2154	282	6500	600															0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
17-Apr-14	24.0			59		598	2213	289	7100	950														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
18-Apr-14	24.0			57		655	2270	290	7300	1200														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
19-Apr-14	23.0		boiler trip	55		710	2325	290	7400	1250														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
20-Apr-14	24.0			57		767	2382	292	7600	1400														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
21-Apr-14	24.0			56		823	2438	293	7600	1500														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
22-Apr-14	2.0	Other	Shut down boiler as propane level ran low. Waiting on load from superior	56		879	2494	293	7700	1500														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
23-Apr-14	0.0	Other	waiting on propane			879	2494																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
24-Apr-14	7.0	Other	Propane delivered. Restarted the boiler and steam back to the wells at 17:00.	58		937	2552	284	6600	800														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
25-Apr-14	24.0			52		989	2604	290	7200	1100														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
26-Apr-14	24.0			49		1038	2653	295	7300	1200														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
27-Apr-14	24.0			50		1088	2703	295	7600	1400														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
28-Apr-14	24.0			51		1139	2754	293	7600	1500														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
29-Apr-14	21.0		Boiler down for 3 hours. Load of propane was late and ran out. Started back up after load delivered	36		1175	2790	295	7100	1400														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
30-Apr-14	24.0			53		1228	2843	294	7600	1500														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
01-May-14	24.0			54		54	2897	294	7700	1600														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
02-May-14	24.0			54		108	2951	294	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
03-May-14	24.0			53		161	3004	294	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
04-May-14	24.0			52		213	3056	294	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
05-May-14	24.0			52		265	3108	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
06-May-14	24.0			53		318	3161	295	7800	1750														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
07-May-14	24.0			48		366	3209	294	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
08-May-14	19.0		Gasket on steam seperator started to leak. Shut down boiler and will change gasket in the morning.	48		414	3257	294	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
09-May-14	14.0		Steam sep gasket changed out and boiler restarted.	42		456	3299	295	6900	650														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
10-May-14	24.0			58		514	3357	295	7500	1400														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
11-May-14	24.0			53		567	3410	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
12-May-14	24.0			53		620	3463	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
13-May-14	24.0			52		672	3515	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
14-May-14	20.0		Shut down to repair leak on FW pump and fix lubricator	38		710	3553	295	7300	1300														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
15-May-14	24.0			52		762	3605	294	7800	1600														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
16-May-14	24.0			53		815	3658	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
17-May-14	24.0			52		867	3710	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
18-May-14	24.0			51		918	3761	295	7800	1800														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
19-May-14	24.0			51		969	3812	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
20-May-14	24.0			50		1019	3862	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
21-May-14	24.0			49		1068	3911	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
22-May-14	24.0			48		1116	3959	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
23-May-14	24.0			51		1167	4010	295	7800	1700														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
24-May-14	24.0			53		1220	4063	295	7900	1800														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
25-May-14	24.0			49		1269	4112	295	7900	1800														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
26-May-14	24.0			50		1319	4162	295	7900	1800														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
27-May-14	24.0			52		1371	4214	295	7900	1800														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
28-May-14	24.0			49		1420	4263	296	7900	1800														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
29-May-14	24.0			49		1469	4312	295	7900	1800														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
30-May-14	24.0			48		1517	4360	295	7900	1800														0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
31-May-14	7.0	Other	Alternator on generator at 4-20 feeding the water well failed. Raw tank level dropped to much. Shut down and cooled the boiler. Raplaced the alternator on days but left boiler down as planned for well startups.	14		1531	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
01-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
02-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
03-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
04-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
05-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
06-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
07-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
08-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
09-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
10-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
11-Jun-14	0.0					0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
12-Jun-14	7.0	Other	Started DP2 at 2.8 SPM and had fluid to surface. Well did not seem to be producing to the seperator so could not test level control. Shut back down for the night. Flowing into TK-5100. Combined with DP1.			0	4374	29	600	0				2.8							*100.0 /0/ 0.0*				0.00	0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	% Sand	Cl- ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d		%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6		785.9	3166.6		6.3	63.7	6.3		779.6		63.0		3102.9	
13-Jun-14	6.0	Surface Equipment	Restarted DP2. Shut down through the day on Plant issues. Restarted and seem to be getting better flow. Tested level dump off of seperator and put in service. Having an issue with the coriolis meter off of seperator. Should have fixed tomorrow.			0	4374	31	400	0				4			1.0		*95.0*	*/0/*	*0.0*			**0.00**	0.0			0.0	0.0					**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
14-Jun-14	14.0		Incinerator tripped overnight. Could not restart. Wells down for the night. Restarted incinerator in morning and restarted wells. Increased SPM to 4.5			0	4374	33	400	0				4.5			26.8		*95.0*	*/0/*	*0.0*		*20*	**0.00**	0.0			0.0	0.0					**0.0**	0.0	0.0					0.0	0.0	0.0	282.5	0.0	0.0	0.0	268.2
15-Jun-14	24.0		Well flowing good. Still mostly water. Switched production into Tank 5200.			0	4374	51	400	0				4.61			49.2		*95.0*	*/0/*	*0.0*		*50*	**1.10**	44.2		*100.0*	0.0	44.2					**44.2**	0.0	44.2					0.0	0.0	0.0	282.5	0.0	0.0	44.2	312.4
16-Jun-14	24.0		Flowing good.			0	4374	55	400	350				5			48.7		*95.0*	*/0/*	*0.0*		*49*	**2.30**	92.4		*100.0*	0.0	92.4					**48.2**	0.0	48.2					0.0	0.0	0.0	282.5	0.0	0.0	48.2	360.6
17-Jun-14	23.5		Flowing good. Bleeding down casing gas. Increased SPM to 5.5. Tripped once on incinerator			0	4374	54	450	790				5.5			52.3		*99.0*	*/0/*	*0.0*	338	*50*	**3.30**	132.6		*100.0*	0.0	132.6					**40.2**	0.0	40.2					0.0	0.0	0.0	282.5	0.0	0.0	40.2	400.8
18-Jun-14	24.0		Seeing something strange with the wells overnight. Be flowing good and then just stop producing fluid for a couple hours and then start making fluid again. Slowed the SPM to 5 to see if it makes a difference.			0	4374	64	450	450				5			55.7		*99.0*	*/0/*	*0.0*	198	*49*	**3.50**	140.6		*100.0*	0.0	140.6		39.8			**47.8**	0.0	47.8					0.0	0.0	0.0	282.5	0.0	0.0	47.8	448.6
19-Jun-14	24.0		Production from well seemed to smooth out. Flowing good. Still trace oil.			0	4374	64	400	400				5.45					*99.0*	*/0/*	*0.0*		*45*	**2.90**	116.5		*100.0*	0.0	116.5		80.0			**55.9**	0.0	55.9					0.0	0.0	0.0	282.5	0.0	0.0	55.9	504.5
20-Jun-14	15.0		High level in Incinerator knockout. Truck called to suck it out for morning, Well down for night. Having trouble with coriolis meter. Having interference.			0	4374	67	400	400				5					*99.0*	*/0/*	*0.0*	215	*46*	**3.60**	144.7		*100.0*	0.0	144.7					**28.1**	0.0	28.1					0.0	0.0	0.0	282.5	0.0	0.0	28.1	532.6
21-Jun-14	1.0		Trouble with dump controls on train 2. Well up and down numerous times throuh the day. Down for the night.			0	4374	32	400	400				3.75					*99.0*	*/0/*	*0.0*		*48*	**2.70**	108.5		*100.0*	0.0	108.5		42.0			**5.8**	0.0	5.8					0.0	0.0	0.0	282.5	0.0	0.0	5.8	538.4
22-Jun-14	18.0		Fixed level control on V-200 and restarted well. Flowing good.			0	4374	60	400	400				5			32.2		*99.0*	*/0/*	*0.0*	265	*46*	**2.90**	116.5		*100.0*	0.0	116.5					**8.0**	0.0	8.0					0.0	0.0	0.0	282.5	0.0	0.0	8.0	546.4
23-Jun-14	24.0		All flowing good.			0	4374	72	400	400				4.6			56.9		*99.0*	*/0/*	*0.0*	260	*42*	**3.40**	136.6		*100.0*	0.0	136.6		40.0			**60.1**	0.0	60.1					0.0	0.0	0.0	282.5	0.0	0.0	60.1	606.5
24-Jun-14	15.0		Propane generator shut down in the morning. Troubleshooting. Started plant back up running on backup generator. Trouble with DP2 level control thorughout the day. Well tripped numerous times. Left down overnight.			0	4374	51	400	400				4.61			43.6		*99.0*	*/0/*	*0.0*	260	*45*	**2.80**	112.5		*100.0*	0.0	112.5		40.2			**16.1**	0.0	16.1					0.0	0.0	0.0	282.5	0.0	0.0	16.1	622.6
25-Jun-14	24.0					0	4374	53	380	380				5					*99.0*	*/0/*	*0.0*		*40*	**3.20**	128.6		*100.0*	0.0	128.6					**16.1**	0.0	16.1					0.0	0.0	0.0	282.5	0.0	0.0	16.1	638.7
26-Jun-14	24.0		Trouble with level control on seperator. Displacer not setup for oil service. Bypassed seperator. Well pumping direct to tank.			0	4374	57	450	350				5					*80.0*	*/0/*	*0.0*		*37*	**3.60**	144.7	**3.40**	*30.0*	5.6	139.1		39.6			**55.7**	5.6	50.1					0.0	0.0	5.6	288.1	0.0	0.0	50.1	688.8
27-Jun-14	24.0		Oil at 3.5m in tank. Sample taps are at 4', 11.5' and 18.5'			0	4374	61	100	100				4.61					*80.0*	*/0/*	*0.0*	400	*45*	**4.20**	168.8	**3.80**	*30.0*	11.3	157.5		43.5			**67.6**	5.7	61.9					0.0	0.0	5.7	293.8	0.0	0.0	61.9	750.7
28-Jun-14	24.0					0	4374	64	100	100				5					*70.0*	*/0/*	*0.0*		*45*	**4.90**	196.9	**3.95**	*30.0*	26.7	170.2		39.3			**67.4**	15.4	52.0					0.0	0.0	15.4	309.2	0.0	0.0	52.0	802.7
29-Jun-14	24.0					0	4374	65	100	100				4.61					*70.0*	*/0/*	*0.0*		*44*	**4.60**	184.9	**3.10**	*30.0*	42.2	142.7		79.4			**67.3**	15.5	51.8					0.0	0.0	15.5	324.7	0.0	0.0	51.8	854.5
30-Jun-14	24.0		Oil cuts coming up more			0	4374	64	150	150				5					*50.0*	*/0/*	*0.0*	450	*50*	**4.30**	172.8	**2.40**	*30.0*	53.4	119.4		79.3			**67.2**	11.2	56.0					0.0	0.0	11.2	335.9	0.0	0.0	56.0	910.5
01-Jul-14	24.0					0	4374	57	100	100				5					*20.0*	*/0/*	*1.0*		*64*	**4.40**	176.8	**2.60**	*30.0*	50.6	126.2	20.4	19.3			**43.7**	17.6	26.1					0.0	0.0	17.6	353.5	0.0	0.0	26.1	936.6
02-Jul-14	24.0					0	4374	65	100	100				5					*40.0*	*/0/*	*0.0*	394	*70*	**4.40**	176.8	**2.25**	*30.0*	60.5	116.3	5.8	32.8			**38.6**	15.7	22.9					0.0	0.0	15.7	369.2	0.0	0.0	22.9	959.5
03-Jul-14	24.0		Champion took tank samples. Tanks sitting at 20% water. No emulsion.			0	4374	65	150	100				5					*60.0*	*/0/*	*0.0*		*74*	**5.00**	200.9	**2.40**	*30.0*	73.1	127.8					**24.1**	12.6	11.5					0.0	0.0	12.6	381.8	0.0	0.0	11.5	971.0
04-Jul-14	24.0					0	4374	41	120	100				5					*80.0*	*/0/*	*0.0*		*78*	**5.70**	229.1	**3.00**	*30.0*	76.0	153.1					**28.1**	2.9	25.2					0.0	0.0	2.9	384.7	0.0	0.0	25.2	996.2
05-Jul-14	24.0					0	4374	53	100	100				5					*80.0*	*/0/*	*0.0*		*81*	**5.60**	225.0	**2.90**	*30.0*	76.0	149.0	1.9	36.4			**34.3**	1.9	32.4					0.0	0.0	1.9	386.6	0.0	0.0	32.4	1028.6
06-Jul-14	14.0		Wells tripped overnight on vent stack high level in knockout. Sucked out and restarted.			0	4374	59	100	100				5					*60.0*	*/0/*	*0.0*		*84*	**4.90**	196.9	**3.20**	*30.0*	47.8	149.1	30.4	9.6			**11.9**	2.2	9.7					0.0	0.0	2.2	388.8	0.0	0.0	9.7	1038.3
07-Jul-14	24.0		Increased chemical rates to help tank treating. Champion took more samples.			0	4374	63	100	100				5					*60.0*	*/0/*	*0.0*	200	*84*	**5.50**	221.0	**3.60**	*30.0*	53.4	167.6					**24.1**	5.6	18.5					0.0	0.0	5.6	394.4	0.0	0.0	18.5	1056.8
08-Jul-14	20.0		Purged out bubble tubes and got N2 hooked up. String 1 is 3550kPa and string 2 is 3650kPa			0	4374	66	200	100		3650	3550	5		376.6			*50.0*	*/0/*	*0.0*		*83*	**4.00**	160.7	**2.40**	*30.0*	45.0	115.7	15.2	62.0			**16.9**	6.8	10.1					0.0	0.0	6.8	401.2	0.0	0.0	10.1	1066.9
09-Jul-14	6.0		Wells tripped overnight on high level in incinerator knockout. Problem with the switch. Pulled and cleaned. Restarted wells.			0	4374	36	100	200		3800	1800	5		176			*20.0*	*/0/*	*0.0*		*84*	**3.50**	140.6	**1.60**	*30.0*	53.4	87.2		40.0			**19.9**	8.4	11.5					0.0	0.0	8.4	409.6	0.0	0.0	11.5	1078.4
10-Jul-14	15.0		Wells tripped again overnight. Trouble with high level switch again on knockout. Instrument tech called to troubleshoot. Restartd wells.			0	4374	17	100	200		3800	1850	5		181.5			*50.0*	*/0/*	*0.0*		*84*	**2.95**	118.5	**2.00**	*30.0*	26.7	91.8	36.0	7.0			**20.9**	9.3	11.6					0.0	0.0	9.3	418.9	0.0	0.0	11.6	1090.0
11-Jul-14	24.0		DP2 really starting to slug. Flow has dropped off. Slowed to 2SPM.			0	4374	18	50	100		4100	2200	2		229.6			*20.0*	*/0/*	*0.0*		*82*	**3.15**	126.6	**1.95**	*30.0*	33.8	92.8					**8.0**	7.1	0.9					0.0	0.0	7.1	426.0	0.0	0.0	0.9	1090.9
12-Jul-14	24.0		Well making some real heavy oil. Producing but really slow.			0	4374	35	50	50		4200	2200	2		234.6			*20.0*	*/0/*	*0.0*		*84*	**3.35**	134.6	**2.05**	*30.0*	36.6	98.0					**8.0**	2.8	5.2					0.0	0.0	2.8	428.8	0.0	0.0	5.2	1096.1
13-Jul-14	24.0		Well starting to pump water and slugs of oil. Increased SPM up to 4.			0	4374	28	50	50		4200	2300	4		245.5			*50.0*	*/0/*	*0.0*		*84*	**3.54**	142.3	**2.15**	*30.0*	39.1	103.2					**7.6**	2.5	5.1					0.0	0.0	2.5	431.3	0.0	0.0	5.1	1101.2
14-Jul-14	24.0		Increased SPM to 5.5.			0	4374	36	50	50		4000	4200	5.46		452.4			*oil/gas*				*85*	**3.74**	150.3	**2.25**	*30.0*	41.9	108.4					**8.0**	2.8	5.2					0.0	0.0	2.8	434.1	0.0	0.0	5.2	1106.4
15-Jul-14	18.0		tried shutting in Dp2 to see if the tubing would pressure up. Nothing over 4 hours. Shut down well. Will try to load casing and give it a flush.			0	4374	33	10	60		4200	3500	5.45		375.1			*oil/gas*				*84*	**3.35**	134.6	**1.82**	*30.0*	43.0	91.6		20.0			**4.3**	1.1	3.2					0.0	0.0	1.1	435.2	0.0	0.0	3.2	1109.6
16-Jul-14	0.0					0	4374	27	0	20		4200	4200	0		455.4							*80*	**3.35**	134.6	**1.82**	*30.0*	43.0	91.6					**0.0**	0.0	0.0					0.0	0.0	0.0	435.2	0.0	0.0	0.0	1109.6
17-Jul-14	14.0		Used pressure truck and pressured up tubing on DP2. Pressured up good. Flushed 10m3 of hot water down casing of well and restarted well. Seems to be flowing good.			0	4374	37	50	20		4200	4200			455.4			*99.0*	*/0/*	*0.0*	915	*82*	**3.65**	146.7	**2.10**	*30.0*	43.6	103.1					**12.1**	0.6	11.5	10	*100.0*	10.0		0.0	0.0	0.6	435.8	10.0	0.0	1.5	1111.1
18-Jul-14	24.0					0	4374	50	60	0		4200	2000	4.61		217.8			*98.0*	*/0/*	*0.1*		*82*	**4.20**	168.8	**2.65**	*30.0*	43.6	125.2		20.0			**42.1**	0.0	42.1					0.0	0.0	0.0	435.8	0.0	0.0	42.1	1153.2
19-Jul-14	24.0					0	4374	61	40	80		4000	2200	6		231.6			*100.0*	*/0/*	*0.0*	915	*80*	**2.40**	96.4	**1.68**	*30.0*	20.3	76.1	23.4	100.8			**51.9**	0.1	51.8					0.0	0.0	0.1	435.9	0.0	0.0	51.8	1205.0
20-Jul-14	24.0					0	4374	67	80	100		4100	3100	6		327.6			*98.0*	*/0/*	*0.0*		*81*	**3.70**	148.7	**2.98**	*30.0*	20.3	128.4					**52.2**	0.0	52.2					0.0	0.0	0.0	435.9	0.0	0.0	52.2	1257.2
21-Jul-14	19.0		Well driver motor tripped on high temp. Rad dirty. Steamer coming in morning to wash.			0	4374	60	70	100		3800	2600	6		273.1			*99.0*	*/0/*	*0.0*	991	*84*	**4.80**	192.9	**4.07**	*30.0*	20.5	172.4					**44.2**	0.2	44.0					0.0	0.0	0.2	436.1	0.0	0.0	44.0	1301.2
22-Jul-14	17.0		Washed rads and restarted DP2. PIT onsite. Shot fluid levels. DP2 at 30 joints or roughly 285m. Matches pretty close to bubbletube.			0	4374	63	85	80		3800	2400	6		253.4			*99.0*	*/0/*	*0.0*		*83*	**4.00**	160.7	**3.27**	*30.0*	20.5	140.2		79.2			**47.1**	0.0	47.1					0.0	0.0	0.0	436.1	0.0	0.0	47.1	1348.3
23-Jul-14	24.0					0	4374	68	50	50		3700	1000	6		103.9			*98.0*	*/50/*	*0.1*	549	*79*	**3.20**	128.6	**2.46**	*30.0*	20.8	107.8		80.0			**47.9**	0.3	47.6					0.0	0.0	0.3	436.4	0.0	0.0	47.6	1395.9
24-Jul-14	19.0		Dp2 well driver engine tripped. Unable to restart. Weatehrford coming to troubleshoot.			0	4374	57	50	80		3700	700	6		68.23			*98.0*	*/0/*	*0.1*		*42*	**2.20**	88.4	**1.90**	*30.0*	8.4	80.0	12.9	45.4			**18.1**	0.5	17.6					0.0	0.0	0.5	436.9	0.0	0.0	17.6	1413.5

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut					Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	Sand	Cl-ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3								
Total:	9285.0																													781.38	3174.6			785.9	3166.6			6.3	63.7	6.3		779.6		63.0		3102.9	
25-Jul-14	**10.0**		Weatherford fixed driver engine. Trouble with ignition system. Restarted well. Slowed to 2.5spm due to dropping fluid level.			0	4374	17	0	50		3900	500	2.5		49.45			*60.0*	*/60/*	*0.1*		*40*	**2.22**	89.2	**1.91**	*30.0*	8.7	80.5			**0.8**	0.3	0.5					0.0	0.0	0.3	437.2	0.0	0.0	0.5	1414.0
26-Jul-14	**24.0**					0	4374	20	8	80		3800	500	2.72		46.45			*99.0*	*/0/*	*0.1*		*50*	**2.24**	90.0	**1.92**	*30.0*	9.0	81.0			**0.8**	0.3	0.5					0.0	0.0	0.3	437.5	0.0	0.0	0.5	1414.5
27-Jul-14	**24.0**					0	4374	20	0	10		4000	300	2.5		31.67			*gas*				*84*	**2.04**	82.0	**1.97**	*30.0*	2.0	80.0	8.0	2.0	**2.0**	1.0	1.0					0.0	0.0	1.0	438.5	0.0	0.0	1.0	1415.5
28-Jul-14	**24.0**		loaded 10m3 water from 5200 down casing. Started producing again. 10m3 transfered to DP1			0	4374	35	0	0		4200	600	2.3		65.34			*gas*				*83*	**1.70**	68.3	**1.63**	*30.0*	2.0	66.3		20.0	**6.3**	0.0	6.3	10	*100.0*		10.0	0.0	0.0	0.0	438.5	6.3	3.7	0.0	1415.5
29-Jul-14	**24.0**					0	4374	37	0	0		4000	250	2.2		27.22			*99.0*	*/0/*	*0.1*		*48*	**1.90**	76.4	**1.80**	*30.0*	2.8	73.6			**8.0**	0.8	7.2					0.0	0.0	0.8	439.3	3.7	0.0	3.5	1419.0
30-Jul-14	**24.0**					0	4374	37	100	0		3900	200	2.2		21.78		1500	*99.0*	*/0/*	*0.1*		*45*	**2.10**	84.4	**1.95**	*30.0*	4.2	80.2			**8.0**	1.4	6.6					0.0	0.0	1.4	440.7	0.0	0.0	6.6	1425.6
31-Jul-14	**24.0**		Increased spm to 4			0	4374	43	100	0		4000	200	4		21.78			*99.0*	*/0/*	*0.0*		*37*	**2.95**	118.5	**2.65**	*30.0*	8.4	110.1			**34.2**	4.2	30.0					0.0	0.0	4.2	444.9	0.0	0.0	30.0	1455.6
01-Aug-14	**24.0**					0	4374	49	100	0		3900	200	4		21.78			*99.0*	*/0/*	*0.0*		*38*	**3.90**	156.7	**3.40**	*30.0*	14.1	142.6			**38.2**	5.7	32.5					0.0	0.0	5.7	450.6	0.0	0.0	32.5	1488.1
02-Aug-14	**24.0**					0	4374	58	100	0		3750	200	4		21.78		1500	*99.0*	*/0/*	*0.0*		*38*	**2.65**	106.5	**1.95**	*30.0*	19.7	86.8		90.0	**39.8**	5.6	34.2					0.0	0.0	5.6	456.2	0.0	0.0	34.2	1522.3
03-Aug-14	**24.0**					0	4374	56	100	0		3700	200	4		21.78			*99.0*	*/0/*	*0.0*		*39*	**2.00**	80.4	**1.95**	*30.0*	1.4	79.0	25.5	45.2	**44.6**	7.2	37.4					0.0	0.0	7.2	463.4	0.0	0.0	37.4	1559.7
04-Aug-14	**24.0**					0	4374	53	100	80		3500	200	4		13.78			*99.0*	*/0/*	*0.0*		*30*	**3.00**	120.6	**2.80**	*15.0*	6.8	113.8			**40.2**	5.4	34.8					0.0	0.0	5.4	468.8	0.0	0.0	34.8	1594.5
05-Aug-14	**16.0**		Dp2 quit producing overnight. Shut down for 8 hours and then restarted to see if it helped.			0	4374	24	30	50		3800	200	2		16.78			*99.0*	*/0/*	*0.0*		*62*	**1.40**	56.3	**1.40**	*15.0*	0.0	56.3	13.0	66.7	**15.4**	6.2	9.2					0.0	0.0	6.2	475.0	0.0	0.0	9.2	1603.7
06-Aug-14	**24.0**		Shut down well to service well engine driver. Well producing.			0	4374	40	60	20		3800	300	4		30.67			*99.0*	*/0/*	*0.0*	1160	*32*	**2.00**	80.4	**1.94**	*15.0*	2.0	78.4		5.0	**29.1**	2.0	27.1	5	*100.0*		5.0	0.0	0.0	2.0	477.0	5.0	0.0	22.1	1625.8
07-Aug-14	**24.0**					0	4374	47	60	60		3700	200	3.3		15.78			*99.0*	*/0/*	*0.0*		*32*	**1.60**	64.3	**1.49**	*15.0*	3.8	60.5		40.0	**23.9**	1.8	22.1					0.0	0.0	1.8	478.8	0.0	0.0	22.1	1647.9
08-Aug-14	**24.0**					0	4374	21	20	40		3900	400	4		39.56			*99.0*	*/0/*	*0.0*		*84*	**2.20**	88.4	**2.03**	*15.0*	5.8	82.6			**24.1**	2.0	22.1					0.0	0.0	2.0	480.8	0.0	0.0	22.1	1670.0
09-Aug-14	**24.0**					0	4374	55	60	50		3750	250	4		22.22			*98.0*	*/0/*	*0.0*		*82*	**2.80**	112.5	**2.57**	*15.0*	7.9	104.6			**24.1**	2.1	22.0					0.0	0.0	2.1	482.9	0.0	0.0	22.0	1692.0
10-Aug-14	**24.0**					0	4374	45	100	100		3700	200	4		11.78			*99.0*	*/0/*	*0.0*		*84*	**3.30**	132.6	**3.00**	*15.0*	10.2	122.4			**20.1**	2.3	17.8					0.0	0.0	2.3	485.2	0.0	0.0	17.8	1709.8
11-Aug-14	**24.0**					0	4374	53	70	20		3700	100	4.2		8.89			*99.0*	*/0/*	*0.0*	1500	*84*	**4.40**	176.8	**4.04**	*15.0*	12.3	164.5			**44.2**	2.1	42.1					0.0	0.0	2.1	487.3	0.0	0.0	42.1	1751.9
12-Aug-14	**24.0**					0	4374	53	100	80		3500	100	4.2		2.89			*99.0*	*/0/*	*0.0*		*84*	**4.40**	176.8	**3.98**	*15.0*	14.3	162.5		40.0	**40.0**	2.0	38.0					0.0	0.0	2.0	489.3	0.0	0.0	38.0	1789.9
13-Aug-14	**24.0**					0	4374	51	100	100		3900	100	4.2		0.89			*98.0*	*/0/*	*0.0*		*84*	**5.60**	225.0	**5.12**	*15.0*	16.4	208.6			**48.2**	2.1	46.1					0.0	0.0	2.1	491.4	0.0	0.0	46.1	1836.0
14-Aug-14	**24.0**					0	4374	49	100	100		3500	100	4.2		0.89			*98.0*	*/0/*	*0.0*		*84*	**4.70**	188.9	**4.16**	*15.0*	18.4	170.5		80.0	**43.8**	2.0	41.8					0.0	0.0	2.0	493.4	0.0	0.0	41.8	1877.8
15-Aug-14	**24.0**					0	4374	52	100	80		3400	100	4.2		2.89			*99.0*	*/0/*	*0.0*		*83*	**3.70**	148.7	**3.10**	*15.0*	20.5	128.2		80.0	**39.8**	2.1	37.7					0.0	0.0	2.1	495.5	0.0	0.0	37.7	1915.5
16-Aug-14	**24.0**					0	4374	51	100	130		3300	100	4.2		-2.11		1500	*99.0*	*/0/*	*0.0*		*83*	**3.90**	156.7	**3.24**	*15.0*	22.5	134.2		40.0	**48.0**	2.0	46.0					0.0	0.0	2.0	497.5	0.0	0.0	46.0	1961.5
17-Aug-14	**24.0**					0	4374	51	100	100		3200	300	4.2		22.67			*99.0*	*/0/*	*0.0*		*85*	**4.10**	164.8	**3.38**	*15.0*	24.6	140.2		40.0	**48.0**	2.1	45.9					0.0	0.0	2.1	499.6	0.0	0.0	45.9	2007.4
18-Aug-14	**11.0**		Dp2 quit producing. Slowed strokes. No change.. Shut down for the night.			0	4374	25	50	50		3500	200	2.6		16.78			*99.0*	*/0/*	*0.0*		*84*	**3.70**	148.7	**2.91**	*15.0*	27.0	121.7		25.0	**8.9**	2.4	6.5					0.0	0.0	2.4	502.0	0.0	0.0	6.5	2013.9
19-Aug-14	**16.0**		Flushed 17m3 water down casing. Well came back with some oil and started producing again.			0	4374	37	20	20		3700	200	4.28		19.78			*99.0*	*/0/*	*0.0*		*79*	**2.80**	112.5	**2.00**	*15.0*	27.3	85.2		37.0	**0.8**	0.3	0.5	17	*100.0*		17.0	0.0	0.0	0.3	502.3	0.5	16.5	0.0	2013.9
20-Aug-14	**24.0**					0	4374	52	20	20		3500	200	4.28		19.78		1600	*99.0*	*/0/*	*0.0*		*77*	**4.00**	160.7	**3.12**	*15.0*	30.1	130.6			**48.2**	2.8	45.4					0.0	0.0	2.8	505.1	16.5	0.0	28.9	2042.8
21-Aug-14	**24.0**					0	4374	44	50	50		3500	150	4.28		11.33			*99.0*	*/0/*	*0.0*		*78*	**3.83**	153.9	**3.60**	*15.0*	7.9	146.0	24.5	24.5	**42.2**	2.3	39.9					0.0	0.0	2.3	507.4	0.0	0.0	39.9	2082.7
22-Aug-14	**24.0**					0	4374	46	50	60		3500	200	4.28		15.78			*99.0*	*/0/*	*0.0*		*80*	**3.86**	155.1	**3.52**	*15.0*	11.6	143.5		40.0	**41.2**	3.7	37.5					0.0	0.0	3.7	511.1	0.0	0.0	37.5	2120.2
23-Aug-14	**24.0**					0	4374	50	100	50		3300	300	4.28		27.67			*99.0*	*/0/*	*0.0*		*73*	**3.90**	156.7	**3.45**	*15.0*	15.4	141.3		40.0	**41.6**	3.8	37.8					0.0	0.0	3.8	514.9	0.0	0.0	37.8	2158.0
24-Aug-14	**24.0**					0	4374	50	70	100		3300	250	4.28		17.22			*99.0*	*/0/*	*0.0*		*79*	**3.60**	144.7	**3.04**	*15.0*	19.1	125.6		60.0	**47.9**	3.7	44.2					0.0	0.0	3.7	518.6	0.0	0.0	44.2	2202.2
25-Aug-14	**24.0**					0	4374	50	90	90		3200	200	4.28		12.78			*99.0*	*/0/*	*0.0*		*80*	**4.60**	184.9	**3.93**	*15.0*	22.9	162.0			**40.2**	3.8	36.4					0.0	0.0	3.8	522.4	0.0	0.0	36.4	2238.6
26-Aug-14	**24.0**					0	4374	28	100	100		3500	200	4.28		11.78		2033	*40.0*	*/28/*	*0.0*		*80*	**4.70**	188.9	**3.60**	*15.0*	37.6	151.3		40.0	**44.0**	14.7	29.3					0.0	0.0	14.7	537.1	0.0	0.0	29.3	2267.9
27-Aug-14	**24.0**					0	4374	34	80	50		3500	200	4.28		16.78			*45.0*	*/40/*	*0.1*		*79*	**3.90**	156.7	**3.30**	*15.0*	20.5	136.2	33.8	40.6	**42.3**	16.7	25.6					0.0	0.0	16.7	553.8	0.0	0.0	25.6	2293.5
28-Aug-14	**24.0**					0	4374	48	65	100		3150	150	4.28		6.335			*99.0*	*/0/*	*0.0*		*79*	**3.90**	156.7	**3.15**	*15.0*	25.6	131.1		40.0	**40.0**	5.1	34.9					0.0	0.0	5.1	558.9	0.0	0.0	34.9	2328.4
29-Aug-14	**24.0**					0	4374	47	70	100		3200	150	4.28		6.335			*99.0*	*/0/*	*0.0*		*79*	**4.40**	176.8	**3.52**	*15.0*	30.1	146.7			**20.1**	4.5	15.6					0.0	0.0	4.5	563.4	0.0	0.0	15.6	2344.0
30-Aug-14	**24.0**					0	4374	46	100	120		3100	150	4.28		4.335			*99.0*	*/0/*	*0.0*		*82*	**5.10**	204.9	**4.11**	*12.0*	35.0	169.9			**28.1**	4.9	23.2					0.0	0.0	4.9	568.3	0.0	0.0	23.2	2367.2
31-Aug-14	**24.0**					0	4374	45	100	120		3100	150	4.28		4.335			*99.0*	*/0/*	*0.0*		*81*	**4.10**	164.8	**3.00**	*10.0*	39.8	125.0		80.0	**39.8**	4.8	35.0					0.0	0.0	4.8	573.1	0.0	0.0	35.0	2402.2
01-Sep-14	**18.0**		Dp2 died overnight. Shut off to let recover. Restarted and slowed strokes.			0	4374	18	0	0		3500	100	3.5		10.89							*81*	**2.20**	88.4	**1.97**	*5.0*	8.8	79.6	32.9	47.9	**4.4**	1.9	2.5					0.0	0.0	1.9	575.0	0.0	0.0	2.5	2404.7
02-Sep-14	**24.0**		Flushed 11m3 down casing of well.			0	4374	33	50	50		3500	150	4.28		11.33			*99.0*	*/0/*	*0.0*		*75*	**2.90**	116.5	**2.40**	*5.0*	19.1	97.4			**28.1**	10.3	17.8					0.0	0.0	10.3	585.3	0.0	0.0	17.8	2422.5
03-Sep-14	**24.0**		No change in well overnight. Flushed another 10m3 down casing. Well started producing.			0	4374	33	50	0		3700	200	4		21.78		2000	*99.0*	*/0/*	*0.0*		*79*	**3.45**	138.6	**3.20**	*5.0*	9.5	129.1	19.0	1.0	**42.1**	9.4	32.7					0.0	0.0	9.4	594.7	0.0	0.0	32.7	2455.2
04-Sep-14	**24.0**					0	4374	46	50	0		3500	200	4		21.78			*99.0*	*/0/*	*0.0*		*79*	**4.50**	180.8	**3.93**	*15.0*	19.5	161.3			**42.2**	10.0	32.2					0.0	0.0	10.0	604.7	0.0	0.0	32.2	2487.4
05-Sep-14	**24.0**					0	4374	47	50	80		3300	150	4		8.335			*99.0*	*/0/*	*0.0*		*80*	**4.40**	176.8	**4.02**	*15.0*	13.0	163.8	15.4	31.4	**42.8**	8.9	33.9					0.0	0.0	8.9	613.6	0.0	0.0	33.9	2521.3
06-Sep-14	**24.0**					0	4374	48	50	100		3150	100	4		0.89			*99.0*	*/0/*	*0.0*	2400	*82*	**5.40**	217.0	**4.80**	*15.0*	20.5	196.5			**40.2**	7.5	32.7					0.0	0.0	7.5	621.1	0.0	0.0	32.7	2554.0
07-Sep-14	**24.0**					0	4374	44	50	80		3100	150	4		8.335			*99.0*	*/0/*	*0.0*		*80*	**5.50**	221.0	**4.65**	*15.0*	29.0	192.0		38.2	**42.2**	8.5	33.7					0.0	0.0	8.5	629.6	0.0	0.0	33.7	2587.7
08-Sep-14	**24.0**					0	4374	45	50	100		3000	100	4		0.89			*99.0*	*/0/*	*0.0*		*84*	**5.70**	229.1	**4.60**	*15.0*	37.6	191.5		34.0	**42.0**	8.6	33.4					0.0	0.0	8.6	638.2	0.0	0.0	33.4	2621.1
09-Sep-14	**24.0**					0	4374	44	100	150		3000	150	4		1.335			*99.0*	*/0/*	*0.0*		*73*	**6.25**	251.2	**4.90**	*15.0*	46.1	205.1		20.0	**42.1**	8.5	33.6					0.0	0.0	8.5	646.7	0.0	0.0	33.6	2654.7
10-Sep-14	**24.0**					0	4374	44	100	50		3100	250	4		22.22		2407	*99.0*	*/0/*	*0.0*		*73*	**7.30**	293.4	**5.70**	*15.0*	54.7	238.7			**42.2**	8.6	33.6					0.0	0.0	8.6	655.3	0.0	0.0	33.6	2688.3
11-Sep-14	**24.0**					0	4374	44	90	120		2900	300	4		20.67			*99.0*	*/0/*	*0.0*		*72*	**6.32**	254.0	**4.47**	*15.0*	63.2	190.8		81.7	**42.3**	8.5	33.8					0.0	0.0	8.5	663.8	0.0	0.0	33.8	2722.1
12-Sep-14	**24.0**					0	4374	44	100	120		3000	300	4		20.67			*99.0*	*/0/*	*0.0*		*75*	**7.35**	295.4	**5.25**	*15.0*	71.7	223.7			**41.4**	8.5	32.9					0.0	0.0	8.5	672.3	0.0	0.0	32.9	2755.0
13-Sep-14	**24.0**					0	4374	44	80	140		3000	300	4		18.67			*99.0*	*/0/*	*0.0*		*69*	**5.93**	238.3	**3.59**	*15.0*	79.9	158.4		94.2	**37.2**	8.2	29.0					0.0	0.0	8.2	680.5	0.0	0.0	29.0	2784.0
14-Sep-14	**24.0**					0	4374	45	80	100		2800	300	4		22.67			*99.0*	*/0/*	*0.0*	2626	*73*	**5.00**	200.9	**3.14**	*15.0*	63.5	137.4	24.9	49.2	**36.7**	8.5	28.2					0.0	0.0	8.5	689.0	0.0	0.0	28.2	2812.2
15-Sep-14	**24.0**					0	4374	46	80	100		2800	380	4		31.38			*99.0*	*/0/*	*0.0*		*74*	**5.00**	200.9	**3.62**	*15.0*	47.1	153.8	25.0	9.2	**34.2**	8.6	25.6					0.0	0.0	8.6	697.6	0.0	0.0	25.6	2837.8
16-Sep-14	**24.0**					0	4374	46	100	150		2800	100	4		-4.11			*99.0*	*/0/*	*0.0*		*74*	**5.00**	200.9	**3.37**	*15.0*	55.7	145.2		40.2	**40.2**	8.6	31.6					0.0	0.0	8.6	706.2	0.0	0.0	31.6	2869.4
17-Sep-14	**24.0**					0	4374	45	150	180		2100	100	3.75		-7.11			*99.0*	*/0/*	*0.0*		*66*	**5.00**	200.9	**3.12**	*15.0*	64.2	136.7		40.0	**40.0**	8.5	31.5					0.0	0.0	8.5	714.7	0.0	0.0	31.5	2900.9
18-Sep-14	**24.0**					0	4374	44	100	150		2600	100	3.75		-4.11			*99.0*	*/0/*	*0.0*		*65*	**5.50**	221.0	**3.37**	*15.0*	72.8	148.2		18.2	**38.3**	8.6	29.7					0.0	0.0	8.6	723.3	0.0	0.0	29.7	2930.6
19-Sep-14	**24.0**					0	4374	45	150	150		2600	100	3.75		-4.11			*99.0*	*/0/*	*0.0*		*74*	**5.40**	217.0	**3.02**	*15.0*	81.3	135.7		37.5	**33.5**	8.5	25.0					0.0	0.0	8.5	731.8	0.0	0.0	25.0	2955.6
20-Sep-14	**24.0**					0	4374	45	150	180		2100	100	3.75		-7.11			*99.0*	*/0/*	*0.0*		*66*	**5.30**	213.0	**2.68**	*15.0*	89.5	123.5		44.1	**40.1**	8.2	31.9					0.0	0.0	8.2	740.0	0.0	0.0	31.9	2987.5
21-Sep-14	**24.0**					0	4374	44	100	150		2600	100	3.75		-4.11			*99.0*	*/0/*	*0.0*		*62*	**5.20**	209.0	**2.34**	*15.0*	97.7	111.3		40.0	**36.0**	8.2	27.8					0.0	0.0	8.2	748.2	0.0	0.0	27.8	3015.3
22-Sep-14	**24.0**					0	4374	45	100	100		2400	150	4		6.335			*99.0*	*/0/*	*0.0*		*64*	**5.10**	204.9	**2.00**	*15.0*	105.9	99.0		40.0	**36.0**	8.2	27.8					0.0	0.0	8.2	756.4	0.0	0.0	27.8	3043.1
23-Sep-14	**9.0**		Shut down DP2. Well having trouble stroking. Flushed 10m3 down well with no change. Left down for the night. Will have weatherford have a look at drive unit in the morning.			0	4374	0	0	0		2300	150	0		16.33			*0.0*	*/0/*	*0.0*		*74*	**5.50**	221.0	**2.15**	*15.0*	114.4	106.6		10.0	**26.1**	8.5	17.6	10	*100.0*		10.0	0.0	0.0	8.5	764.9	10.0	0.0	7.6	3050.7
24-Sep-14	**12.0**		Transfered 30m3 water from 5200 to 5100. Weatherford made adjustment to the drive unit and was able to get well stroking properly. Back online.			0	4374	35	100	180		2300	200	4		3.78		2400	*99.0*	*/0/*	*0.0*		*73*	**5.50**	221.0	**1.90**	*15.0*	123.0	98.0		30.0	**30.0**	8.6	21.4					0.0	0.0	8.6	773.5	0.0	0.0	21.4	3072.1
25-Sep-14	**24.0**					0	4374	43	70	90		2200	200	4		12.78			*99.0*	*/0/*	*0.0*		*70*	**5.40**	217.0	**1.62**	*15.0*	129.1	87.9		40.3	**36.3**	6.1	30.2					0.0	0.0	6.1	779.6	0.0	0.0	30.2	3102.3
26-Sep-14	**10.0**	Shut in				0	4374	40	100	100		2200	200	4		11.78			*99.0*	*/0/*	*0.0*		*85*	**5.42**	217.6	**1.64**	*15.0*	129.1	88.5			**0.6**	0.0	0.6					0.0	0.0	0.0	779.6	0.0	0.0	0.6	3102.9
27-Sep-14	**0.0**	Suspended				0	4374																*85*	**5.42**	217.6	**1.64**	*15.0*	129.1	88.5			**0.0**	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
28-Sep-14	**0.0**	Suspended				0	4374																*85*	**5.42**	217.6	**1.64**	*15.0*	129.1	88.5			**0.0**	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
29-Sep-14	**0.0**	Suspended				0	4374																*85*	**5.42**	217.6	**1.64**	*15.0*	129.1	88.5			**0.0**	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
30-Sep-14	**0.0**	Suspended				0	4374																*85*	**5.42**	217.6	**1.64**	*15.0*	129.1	88.5			**0.0**	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9

2	On-Time	Production Down time code	Comments	Steam Injection				Well head T	Tubing P	Casing P	Long string P	Downhole Pressure		Rod Pump		Fluid level above pump	Coriolis Meter	Gas to Incinertor from Seps	Flow line sample cut				Tank				Estimated in Tank			Dispositions (Negative if Receipt)		Gross Production (Loads unaccounted)			Loads				Net Oil (m3)			Cum. Production	Net Water (m3)			Cum. Production
				Inj. meter	Return disp.	Cumm Month	Cumm.					Toe	Heal	SPM	Stroke				BS&W	Rug	% Sand	Cl- ions	T	Level	Liquid volume	Oil at	Oil Phs. WC	Oil volume	Water Volume	Oil	Water & sand	Gross fluid	Oil	Water & sand	Vol.	BS&W	Oil	Water	Reco-very	Unreco-vered	Produc-tion		Reco-very	Unreco-vered	Produc-tion	
	hours			m3/day	m3	m3	m3	dg.C.	kPa	kPa	kPa	kPa	kPa		cm	m	m3/d	m3/d	%	%	%	ppm	dg.C	m	m3	m	%	m3	m3	m3	m3	m3	m3	m3	m3	%	m3	m3							
Total:	9285.0																													781.38	3174.6		785.9	3166.6		6.3	63.7	6.3		779.6		63.0		3102.9	
01-Oct-14	0.0	Suspended				0	4374																*85*	5.42	217.6	1.64	*15.0*	129.1	88.5			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
02-Oct-14	0.0	Suspended				0	4374																*85*	5.42	217.6	1.64	*15.0*	129.1	88.5			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
03-Oct-14	0.0	Suspended				0	4374																*85*	5.42	217.6	1.64	*15.0*	129.1	88.5			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
04-Oct-14	0.0	Suspended				0	4374																*85*	5.42	217.6	1.64	*15.0*	129.1	88.5			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
05-Oct-14	0.0	Suspended				0	4374																*85*	5.42	217.6	1.64	*15.0*	129.1	88.5			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
06-Oct-14	0.0	Suspended				0	4374	0	0	0		3600	1300			141.6							*85*	5.42	217.6	1.64	*15.0*	129.1	88.5			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
07-Oct-14	0.0	Suspended				0	4374																*85*	5.42	217.6	1.64	*15.0*	129.1	88.5			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
08-Oct-14	0.0	Suspended				0	4374																	5.42	217.6	1.64	*15.0*	129.1	88.5			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
09-Oct-14	0.0	Suspended				0	4374																	4.58	183.8	1.65	*18.9*	95.5	88.3	33.6	0.2	0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
10-Oct-14	0.0	Suspended				0	4374																	4.58	183.8	1.65	*18.9*	95.5	88.3			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
11-Oct-14	0.0	Suspended				0	4374																	4.58	183.8	1.65	*18.9*	95.5	88.3			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
12-Oct-14	0.0	Suspended				0	4374																	4.58	183.8	1.65	*18.9*	95.5	88.3			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
13-Oct-14	0.0	Suspended				0	4374																	4.58	183.8	1.65	*18.9*	95.5	88.3			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
14-Oct-14	0.0	Suspended				0	4374																	3.74	150.3	1.84	*19.0*	62.0	88.3	33.5	0.1	0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
15-Oct-14	0.0	Suspended				0	4374																	0.00	0.0	0.00	*0.0*	0.0	0.0	62.0	88.3	0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
16-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
17-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
18-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
19-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
20-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
21-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
22-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
23-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
24-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
25-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
26-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
27-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
28-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
29-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
30-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0		5.5	0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9
31-Oct-14	0.0	Suspended				0	4374																		0.0			0.0	0.0			0.0	0.0	0.0					0.0	0.0	0.0	779.6	0.0	0.0	0.0	3102.9

	DP1							Liner top - 904.5m. VIT,md -796.7				DP2					
	TC-1	TC-2 (bad TC)	TC-3	TC-4	TC-5	TC-6	TC-7	TC-8	TC-9	TC-10		TC-1	TC-2	TC-3	TC-4	TC-5	
TCs depth:	1351	1296	1241	1187	1132	1078	1023	969	917	859	notes	1378	1278	1178	1078	879	notes
14/01/2014	21	21	22	21	34	28	41	49	82	111	taken on pyramid fluke						
16/01/2014	22	22	22	21	27	39	48	54	75	111	taken on pyramid fluke						
19/01/2014	23	23	22	23	28	45	55	58	77	120	taken on pyramid fluke						
25/01/2014	22	23	22	21	28	43	50	56	73	128	taken on pyramid fluke/boiler had been down	21	20	22	20	21	initial readings taken by precise on install
29/01/2014	24	25	24	24	29	46	54	56	88	136	from new data taker panel						
31/01/2014	99	103	108	114	120	132	138	144	146	152							
01/02/2014	130	136	138	144	149	164	188	209	231	247							
02/02/2014	165	167	172	177	182	190	219	232	240	246							
05/02/2014	78	88	92	97	102	114	131	140	156	197							
08/02/2014	39	41	44	47	52	64	71	75	85	92	boiler restarted						
09/02/2014	74	75	75	77	78	83	99	112	125	184							
10/02/2014	140	142	145	150	157	173	217	235	250	258							
11/02/2014	147	149	154	160	166	189	229	257	269	277							
12/02/2014	148	151	160	168	178	204	248	258	272	283							
13/02/2014	104	113	124	139	150	190	223	222	226	247	cut back on rig tank vent						
14/02/2014	80	86	89	96	105	125	150	158	168	209	rig tank vent slightly open						
15/02/2014	76	83	82	88	96	116	148	161	179	238							
16/02/2014	74	80	79	85	93	115	150	163	182	240							
17/02/2014	64	71	70	76	85	109	148	161	184	246	Opened steam to DP2.	24	24	25	83	298	
18/02/2014	61	62	67	74	84	113	159	173	197	256		24	24	33	98	300	
19/02/2014	50	55	61	70	83	134	161	165	227	252		23	24	44	164	299	
20/02/2014	46	51	57	693	78	129	153	159	223	241	TC-4 Failed	24	25	57	220	300	
21/02/2014	46	50	56	303	78	127	153	158	221	237	TC-4 Failed	23	26	64	270	299	
22/02/2014	43	46	54	1365	75	123	149	159	216	230	TC-4 Failed	24	27	69	273	300	
22/02/2014	43	46	54	1365	75	123	149	159	216	230	TC-4 Failed	24	27	69	273	300	
23/02/2014	40	43	48	607	71	121	144	153	209	223	TC-4 Failed	23	26	73	273	299	
25/02/2014	39	43	47		70	123	153	162	227	238		24	26	53	193	289	
26/02/2014	36	39	45		67	128	162	172	239	246		23	24	49	186	287	
27/02/2014	36	39	44		68	130	164	174	243	250	Readings from datataker	23	24	51	184	288	
28/02/2014	36	39	45		70	139	173	185	238	245		23	25	60	188	289	
01/03/2014	35	38	44		71	144	178	190	253	260		24	25	57	200	289	
02/03/2014	35	37	44		70	149	182	197	255	260		24	25	51	205	288	
03/03/2014	34	37	42		70	154	188	205	258	261		24	25	48	218	285	
04/03/2014	33	36	41		73	159	195	211	261	265		23	25	47	217	288	
05/03/2014	32	36	42		75	164	199	214	263	266		23	24	48	213	288	
06/03/2014	32	36	41		75	167	201	217	264	267		23	24	49	209	288	
07/03/2014	32	38	41		76	168	204	220	265	268		22	24	48	202	289	
08/03/2014	33	36	41		77	168	206	221	270	270		24	24	49	209	290	
09/03/2014	32	37	41		78	174	214	231	281	279		24	25	49	206	290	
10/03/2014																	
11/03/2014	32	35	40		80	167	218	230	270	271		23	24	54	175	290	
12/03/2014	31	36	41		80	179	212	226	266	269		23	24	59	271	294	
13/03/2014	30	34	36		61	130	149	163	199	210		23	24	44	155	284	
14/03/2014																	
15/03/2014	31	35	41		82	169	199	216	262	266		24	24	54	278	293	
16/03/2014	31	35	40		79	172	201	217	260	260		24	24	68	273	293	
17/03/2014	30	36	40		76	170	198	213	259	265		22	25	93	288	298	
18/03/2014	31	36	40		76	170	200	214	260	264		23	26	90	287	297	
19/03/2014	30	34	39		75	169	199	214	259	262		23	27	102	291	297	
20/03/2014	30	39	39		74	167	197	211	257	261		23	28	109	290	297	
21/03/2014	30	33	39		74	165	195	209	256	261		23	28	117	291	297	

	DP1							Liner top - 904.5m. VIT,md -796.7				DP2					
	TC-1	TC-2 (bad TC)	TC-3	TC-4	TC-5	TC-6	TC-7	TC-8	TC-9	TC-10		TC-1	TC-2	TC-3	TC-4	TC-5	
TCs depth:	1351	1296	1241	1187	1132	1078	1023	969	917	859	notes	1378	1278	1178	1078	879	notes
22/03/2014	29	33	34		58	104	161	166	175	199		23	28	122	292	298	
23/03/2014	29	31	34		55	103	140	143	153	170		23	28	116	293	299	
24/03/2014	29	37	37		72	131	143	158	208	217		23	29	110	292	297	
25/03/2014	28	37	37		66	129	146	161	191	197		24	28	92	275	292	
26/03/2014	29	36	37		68	133	156	168	223	231		23	30	117	294	298	
27/03/2014	28	32	37		67	138	163	175	226	234		24	31	127	293	297	
28/03/2014	28	33	37		69	143	168	180	225	231		23	30	127	294	297	
29/03/2014	29	36	37		69	141	166	178	227	235		23	32	133	295	298	
30/03/2014	28	35	37		69	141	166	178	227	234		24	32	136	293	297	
31/03/2014	28	30	35		63	132	156	169	208	216		23	31	127	292	295	
01/04/2014	28	35	35		61	131	152	163	210	217		23	30	118	287	282	
02/04/2014	28	34	35		65	134	161	172	223	230		23	32	132	295	297	
03/04/2014	28	33	35		65	137	164	176	228	235		23	33	137	293	298	
04/04/2014	28	30	35		65	138	165	177	229	235		23	33	141	295	298	
05/04/2014	28	31	35		65	138	165	176	228	236		23	34	147	295	298	
06/04/2014	28	30	35		65	139	165	176	228	237		24	35	152	295	297	
07/04/2014	28	30	35		66	140	167	178	229	237		24	36	156	295	298	
08/04/2014	27	30	34		66	139	162	174	215	223		24	34	144	292	295	
09/04/2014	27	29	32		54	92	152	157	173	199		23	31	113	236	270	
10/04/2014	27	29	33		60	123	141	156	195	201		22	31	116	284	291	
11/04/2014	27	28	31		50	83	130	135	150	170		23	29	94	226	264	
12/04/2014	27	29	31		46	76	116	119	134	148		23	29	87	192	221	
13/04/2014	27	29	30		45	73	108	111	124	136		23	27	80	174	202	
14/04/2014	27	28	30		44	70	101	104	118	128		23	27	76	162	189	
15/04/2014	26	28	30		43	68	96	99	112	121		23	26	71	152	178	
16/04/2014	26	27	29		42	66	92	95	107	116		23	26	68	145	170	
17/04/2014	26	29	31		50	91	106	121	167	179		23	28	77	278	284	
18/04/2014	27	28	32		55	110	131	145	206	216		23	28	97	290	292	
19/04/2014	26	29	32		58	121	145	159	217	225		23	29	120	291	294	
20/04/2014	27	49	32		60	125	149	162	213	222		22	30	129	293	294	
21/04/2014	27	30	33		63	131	156	168	228	236		23	31	141	294	296	
22/04/2014	27	29	33		64	136	162	174	228	236		24	33	153	295	296	
23/04/2014	27	30	33		65	139	167	178	235	242		23	34	164	296	297	
24/04/2014	26	27	30		47	80	128	133	150	169		23	30	111	224	269	
25/04/2014	26	28	32		56	108	125	139	176	185		22	29	116	285	289	
26/04/2014	27	28	32		59	118	143	155	210	219		23	31	130	291	293	
27/04/2014	27	30	34		71	144	170	185	226	228		24	32	141	292	294	
28/04/2014	27	30	35		74	148	172	190	237	238		24	33	159	293	295	
29/04/2014	27	29	34		67	146	177	192	228	231		23	34	169	295	297	
30/04/2014	27	28	33		60	139	162	179	209	209		24	34	157	268	291	
01/05/2014	26	28	33		64	139	170	183	223	227		24	36	162	295	296	
02/05/2014	26	28	33		63	139	167	179	230	235		24	37	177	295	297	
03/05/2014	27	29	33		63	139	169	179	230	236		23	39	192	297	298	
04/05/2014	26	29	33		63	139	168	178	230	237		24	40	198	296	298	
05/05/2014	26	28	33		63	139	168	177	231	238		24	40	203	296	298	
06/05/2014	26	28	33		64	142	169	179	230	237		24	42	207	296	298	
07/05/2014	26	28	33		64	141	169	178	230	238		24	42	210	297	298	
08/05/2014	26	29	34		67	148	174	185	231	235		24	42	208	296	297	
09/05/2014	26	28	30		52	95	153	156	171	193		24	40	175	272	286	
10/05/2014	26	29	34		71	152	172	192	220	220		23	36	158	276	291	
11/05/2014	26	29	33		64	142	168	180	220	225		23	38	187	296	297	
12/05/2014	26	29	33		63	140	169	181	228	232		24	41	208	296	297	

	DP1							Liner top - 904.5m. VIT,md -796.7				DP2					
	TC-1	TC-2 (bad TC)	TC-3	TC-4	TC-5	TC-6	TC-7	TC-8	TC-9	TC-10		TC-1	TC-2	TC-3	TC-4	TC-5	
TCs depth:	1351	1296	1241	1187	1132	1078	1023	969	917	859	notes	1378	1278	1178	1078	879	notes
13/05/2014	26	28	33		63	140	170	180	226	232		23	42	216	297	298	
14/05/2014	27	29	33		65	151	171	188	237	240		24	43	220	296	297	
15/05/2014	27	27	32		58	179	168	178	209	212		23	40	193	292	294	
16/05/2014	66	27	32		58	179	168	178	209	212		23	40	193	292	294	
17/05/2014	41	27	32		61	165	165	176	225	231		23	41	212	297	298	
18/05/2014	31	28	32		62	162	168	179	229	235		23	43	226	297	298	
19/05/2014	28	28	33		64	163	173	183	230	234		24	45	232	297	298	
20/05/2014	31	28	32		63	162	171	181	230	235		24	45	240	298	298	
21/05/2014	33	27	32		65	161	177	188	227	231		25	46	235	297	298	
22/05/2014	35	29	33		64	161	175	187	230	234		24	46	237	297	298	
23/05/2014	37	29	33		67	164	179	192	232	234		25	47	239	297	298	
24/05/2014	38	120	35		72	180	189	206	237	238		23	46	225	297	298	
25/05/2014	30	106	34		67	163	183	195	227	230		24	47	248	298	299	
26/05/2014	27	133	33		64	157	174	186	229	233		25	49	274	298	298	
27/05/2014	29	99	34		67	157	184	198	231	233		24	48	241	298	299	
28/05/2014	25	92	32		63	152	170	180	224	230		24	48	231	297	298	
29/05/2014	24	101	32		62	152	169	178	229	235		24	49	267	297	299	
30/05/2014	22	102	33		63	152	169	179	230	235		24	49	288	298	299	
31/05/2014	23	86	32		63	155	173	184	230	234		25	51	268	297	298	
01/06/2014	18	84	30		49	103	142	147	160	179		23	44	197	266	286	
01/06/2014	13	63	29		47	99	134	138	152	167		23	43	181	248	282	
02/06/2014	14	58	28		43	91	122	126	140	151		23	39	159	221	272	
03/06/2014	21	64	28		36	86	114	117	131	141		23	37	145	205	251	
04/06/2014	24	103	28		40	82	106	111	124	134		23	36	136	194	201	
05/06/2014	22	102	28		37	81	100	106	119	128		23	35	128	185	202	
06/06/2014	18	83	28		37	79	97	102	115	123		23	34	121	178	202	
07/06/2014	17	83	28		39	76	93	99	111	119		23	33	115	172	177	
08/06/2014	15	76	27		38	76	91	96	108	115		24	33	111	166	148	
09/06/2014	14	95	27		37	75	87	93	105	111		23	32	105	162	166	
10/06/2014	15	89	27		37	74	86	91	103	109		23	31	101	159	167	
11/06/2014	16	90	27		37	72	85	90	101	107		23	31	99	157	166	
12/06/2014	18	85	27		38	70	83	87	99	105		23	30	95	151	163	
13/06/2014	16	84	26		35	57	82	85	87	95		23	30	91	148	171	
14/06/2014	15	84	26		35	60	86	87	88	93		22	29	85	141	193	
15/06/2014	17	100	26		33	54	80	84	85	90		23	28	78	136	181	
16/06/2014	27	103	26		33	56	79	81	82	87		23	28	73	134	188	
17/06/2014	27	73	26		32	55	76	79	80	85		22	27	68	136	183	
18/06/2014	30	70	26		31	54	70	74	77	81		22	27	64	136	186	
19/06/2014	29	91	26		33	59	72	74	79	82		22	27	62	137	182	
20/06/2014	29	87	25		30	49	64	69	73	77		22	27	59	129	176	
21/06/2014	26	113	26		33	62	68	71	77	80		23	27	59	133	200	
22/06/2014	30	113	26		33	63	70	71	76	81		23	27	60	123	192	
23/06/2014	29	73	26		33	63	69	71	76	81		23	27	57	122	172	
24/06/2014	29	80	26		33	58	69	71	76	81		22	27	55	116	164	
25/06/2014	27	131	26		32	60	68	70	75	80		23	26	56	121	195	
26/06/2014	23	88	25	27	29	53	59	64	67	72		23	26	53	108	139	
27/06/2014	28	81	25	28	29	48	53	59	62	67		22	26	52	103	140	
28/06/2014	29	133	25	28	27	46	48	52	58	61		22	26	49	97	138	
29/06/2014	30	108	25	28	26	45	46	50	57	59		23	25	50	95	136	
30/06/2014	30	78	25	28	26	45	44	49	53	58		23	25	48	99	134	
01/07/2014	31	76	25	28	26	49	48	51	55	59		23	26	46	97	131	
02/07/2014	33	97	25	29	28	48	53	56	59	64		22	26	46	92	127	

	DP1							Liner top - 904.5m. VIT,md -796.7				DP2					
	TC-1	TC-2 (bad TC)	TC-3	TC-4	TC-5	TC-6	TC-7	TC-8	TC-9	TC-10		TC-1	TC-2	TC-3	TC-4	TC-5	
TCs depth:	1351	1296	1241	1187	1132	1078	1023	969	917	859	notes	1378	1278	1178	1078	879	notes
03/07/2014	32	92	24	29	28	47	53	57	60	63		23	26	44	95	127	
04/07/2014	31	119	25	28	28	50	53	57	60	63		23	26	45	92	127	
05/07/2014	35	111	25	28	28	50	53	57	60	65		22	25	48	101	125	
06/07/2014	34	106	25	29	29	50	54	57	61	63		23	26	44	89	131	
07/07/2014	33	119	25	30	28	49	53	56	60	63		23	25	44	93	129	
08/07/2014	33	119	25	30	28	49	53	56	60	63		23	25	44	93	129	
09/07/2014	34	147	25	30	28	49	53	56	60	63		23	25	45	97	132	
10/07/2014	32	128	25	32	30	54	56	57	63	65		23	26	46	96	171	
11/07/2014	31	88	25	29	27	49	53	55	59	61		23	26	49	95	158	
12/07/2014	30	102	25	30	28	48	55	56	61	62		23	26	49	95	153	
13/07/2014	32	103	25	31	28	51	54	56	61	62		22	25	48	95	149	
14/07/2014	33	83	25	33	29	51	53	56	61	62		23	25	47	95	149	
15/07/2014	33	64	25	33	28	50	54	56	59	61		22	25	47	98	146	
16/07/2014	31	110	25	32	28	50	54	55	61	60		22	25	47	97	143	
17/07/2014	34	75	25	30	28	52	55	55	59	59		22	25	47	96	140	
18/07/2014	34	45	25	30	28	52	54	55	59	59		23	26	45	81	119	
19/07/2014	30	50	26	29	28	49	54	55	59	59		22	24	43	83	129	
20/07/2014	32	54	25	29	28	51	53	54	58	58		23	25	40	81	129	
21/07/2014	31	43	25	29	28	51	53	53	57	58		23	25	39	78	124	
22/07/2014	34	57	26	29	27	51	53	54	58	58		22	24	44	89	155	
23/07/2014	36	68	25	31	27	51	53	53	58	58		23	25	40	75	120	
24/07/2014	34	72	25	30	28	51	52	53	57	57		23	25	38	69	128	
25/07/2014	33	34	25	29	27	52	52	52	56	56		23	25	42	83	167	
26/07/2014	36	29	25	29	26	54	53	52	56	56		23	25	44	83	145	
27/07/2014	35	37	26	29	26	52	52	52	55	56		23	24	43	84	146	
28/07/2014	31	58	25	29	27	52	51	52	55	56		23	25	43	83	140	
29/07/2014	31	58	25	29	27	52	51	52	55	56		23	25	43	83	140	
30/07/2014	29	103	25	30	26	48	51	51	55	56		22	25	42	75	117	
31/07/2014	32	87	25	31	26	48	50	51	55	55		24	25	40	72	121	
01/08/2014	33	85	26	30	27	54	51	51	55	56		23	24	38	68	106	
02/08/2014	33	66	25	29	26	47	50	49	52	52		23	25	37	70	114	
03/08/2014	31	63	25	29	26	44	50	50	53	54		22	25	36	67	121	
04/08/2014	32	71	25	29	25	46	50	50	51	54		22	24	36	65	124	
05/08/2014	28	29	24	34	27	41	50	50	56	54		24	26	42	79	150	
06/08/2014	30	71	25	30	26	44	49	49	53	53		22	24	42	78	141	
07/08/2014	31	28	25	29	26	46	50	49	52	53		22	24	38	69	116	
08/08/2014	28	27	25	28	27	42	49	49	51	53		23	25	37	65	107	
09/08/2014	28	29	25	28	26	43	49	49	51	53		23	24	41	76	137	
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12/08/2014	29	35	25	29	26	43	49	48	51	53		24	24	34	60	110	
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15/08/2014	29	26	25	29	25	42	48	48	50	52		23	25	37	66	106	
16/08/2014	29	26	25	30	26	43	47	47	50	51		23	24	33	59	108	
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18/08/2014	28	30	25	28	26	41	45	47	49	51		22	24	36	68	149	
19/08/2014	28	27	25	28	27	41	47	47	48	50		23	25	40	69	121	
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21/08/2014	27	24	25	27	27	40	45	46	48	50		23	25	35	62	98	
22/08/2014	27	24	25	27	27	39	45	46	47	50		23	24	35	60	101	
23/08/2014	27	24	25	27	27	40	45	46	47	50		22	24	34	58	102	

	DP1							Liner top - 904.5m. VIT,md -796.7				DP2					
	TC-1	TC-2 (bad TC)	TC-3	TC-4	TC-5	TC-6	TC-7	TC-8	TC-9	TC-10		TC-1	TC-2	TC-3	TC-4	TC-5	
TCs depth:	1351	1296	1241	1187	1132	1078	1023	969	917	859	notes	1378	1278	1178	1078	879	notes
24/08/2014	27	24	25	27	27	40	45	46	47	50		23	25	33	56	107	
25/08/2014	27	25	25	27	27	40	45	46	47	50		23	24	33	58	107	
26/08/2014	27	26	25	27	26	41	46	46	47	50		22	24	33	59	104	
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01/09/2014	27	24	25	26	26	40	44	44	46	49		23	25	35	65	138	
02/09/2014	27	24	25	27	26	40	44	44	45	49		23	25	38	65	113	
03/09/2014	27	24	25	27	26	39	43	44	45	48		23	25	39	65	118	
04/09/2014	26	24	25	27	25	40	43	44	45	49		23	25	36	60	90	
05/09/2014	26	24	25	26	25	38	44	44	45	48		23	24	34	56	90	
06/09/2014	26	24	25	27	25	39	43	44	45	48		23	25	33	54	97	
07/09/2014	26	24	25	27	24	39	42	43	45	48		23	24	32	53	97	
08/09/2014	26	25	25	26	26	37	43	43	45	48		22	24	32	54	96	
09/09/2014	26	23	25	26	26	38	42	43	44	47		23	24	32	53	96	
10/09/2014	26	24	25	26	26	37	43	43	44	47		22	24	32	55	96	
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14/09/2014	26	23	25	26	24	40	41	42	44	47		23	23	32	54	90	
15/09/2014	26	23	25	26	24	40	42	42	44	47		23	25	32	53	90	
16/09/2014	25	24	25	26	23	40	42	42	44	47		23	24	32	53	89	
17/09/2014	25	23	25	26	24	39	41	42	44	47		24	24	32	51	88	
18/09/2014	24	24	25	26	24	40	41	42	44	47		23	24	32	53	89	
19/09/2014	25	24	25	26	22	41	41	42	44	47		23	24	33	53	89	
20/09/2014	26	23	25	27	23	40	41	42	44	47		24	24	32	51	89	
21/09/2014	24	25	25	26	23	42	41	42	45	47		23	24	32	52	90	
22/09/2014	25	25	25	27	21	42	40	42	45	48		22	24	32	52	89	
23/09/2014	27	25	25	27	19	44	41	42	45	48		22	24	32	52	89	
24/09/2014	27	24	25	26	22	41	40	42	45	48		23	24	36	57	105	
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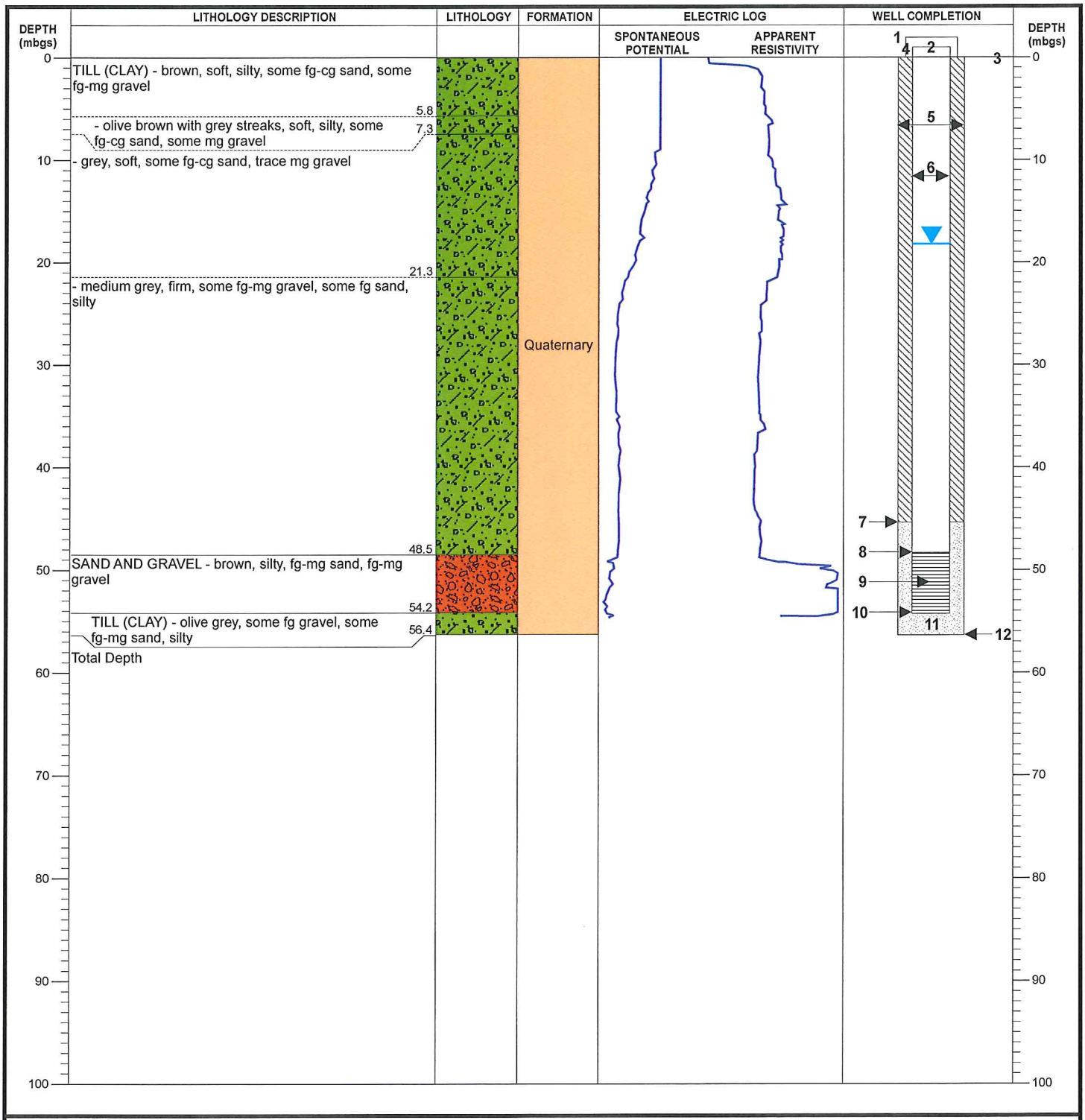
28/09/2014	26	24	25	26	25	38	40	41	44	46		23	24	36	54	97	
29/09/2014	25	24	25	26	24	40	40	41	44	46		22	24	36	55	96	
30/09/2014	25	23	25	26	23	41	39	41	44	47		22	23	36	55	95	
01/10/2014	23	22	25	26	23	42	39	41	44	46		24	24	35	54	93	
02/10/2014	25	22	25	26	24	42	39	40	44	46		23	24	35	54	92	
03/10/2014	27	24	25	26	25	39	39	41	44	46		24	25	36	56	91	
04/10/2014	26	24	24	26	25	39	39	40	44	46		23	24	35	55	90	
05/10/2014	24	23	25	26	24	39	39	41	44	46		23	24	35	55	90	
06/10/2014	25	23	25	26	24	41	39	41	44	46		23	24	35	55	89	

Appendix B

Information for MW QUAT 12-20

Geologic Log and Well Completion Diagram
Pumping Test Results
Cooper-Jacob Drawdown Analysis
Theis Recovery Analysis



Well Completion Legend

1	Steel Casing Protector	4	Stick Up 0.60 m	9	51 mm ID PVC Sch 80 Screen (20 slot)
2	Top of Casing Elevation _____ masl	5	Borehole Diameter 159 mm	10	Base of Screen 54.3 mbgs
3	Ground Elevation _____ masl	6	51 mm ID PVC Sch 80 Pipe	11	Colorado Silica 10/20 Frac Sand
		7	Top of Sand Pack 45.5 mbgs	12	TD 56.4 mbgs
		8	Top of Screen 48.2 mbgs		

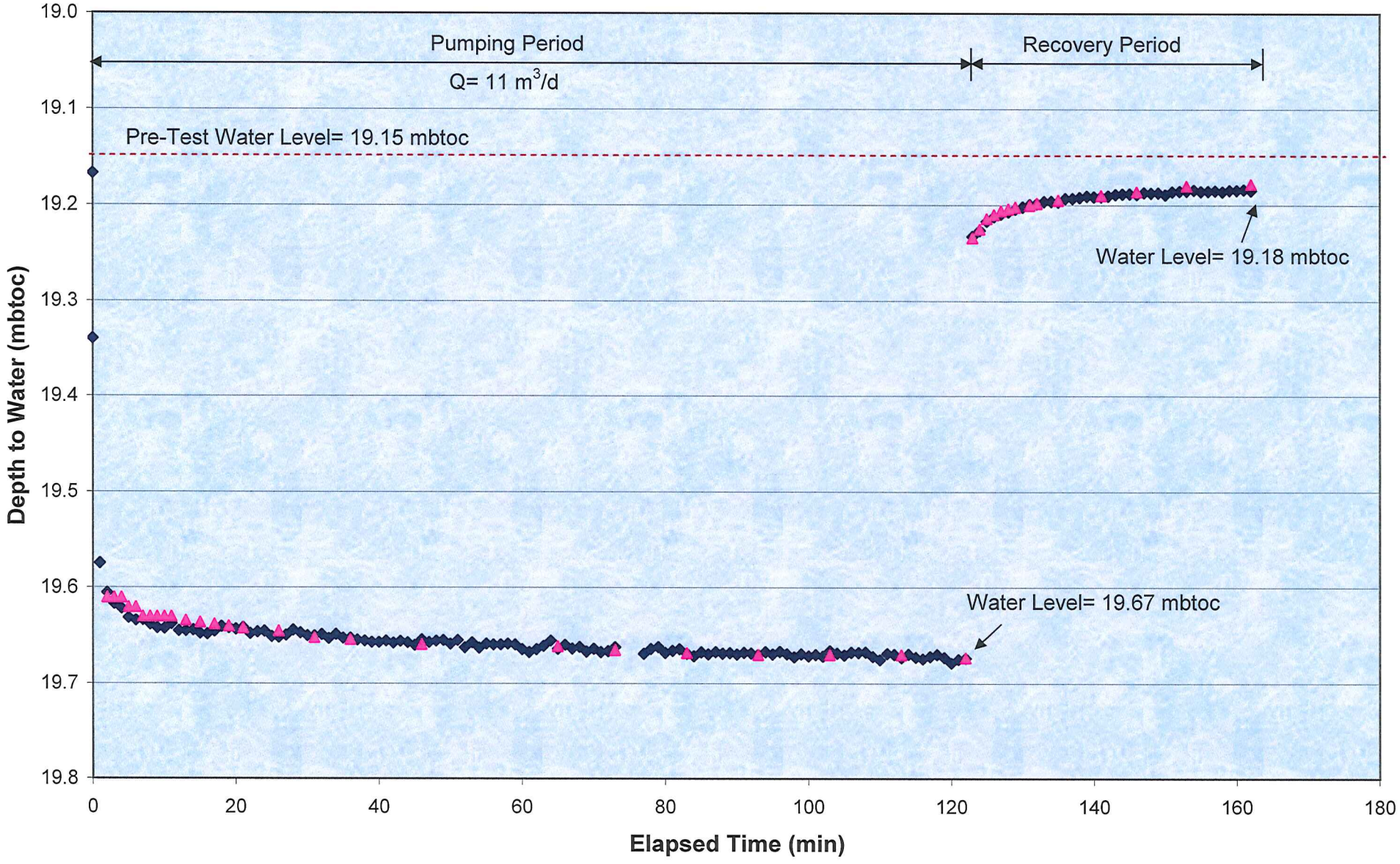
Project:	13.329.2	Location (LSD):	12-20-081-15 W5	Drilling Contractor:	Elk Point Drilling Corp.
Project Number:	Petrobank - Dawson	Northing:	6210554.9	Drilling Method:	Mud Rotary
Logged By:	R. Brenner	Easting:	542347.4	Well Completion Date:	April 8, 2011
Compiled By:	R. Brenner	Zone:	12 (NAD 83)		

▼ Water Level: 19.13 mbtoc
Date: April 10, 2011

Figure A-1
Geologic Log and Well Completion Diagram for TH 2/MW QUAT 12-20

Westwater ENVIRONMENTAL LTD.

P:/13. Whitesands_Petrobank/329 - Dawson Project 2011/Figures - WaterActReport/WCD-TH2.cdr



LEGEND

- Transducer Data Point
- Manual Water Level

mbtoc - metres below top of casing

Figure A-2
Pumping Test Results
MW QUAT 12-20
May 10, 2011

Westwater ENVIRONMENTAL LTD.

P:\13. Whitesands_Petrobank\329 - Dawson Project 2011\Figures\Figures - Water Act Report\12-20 mini pump test.xls
Water Level

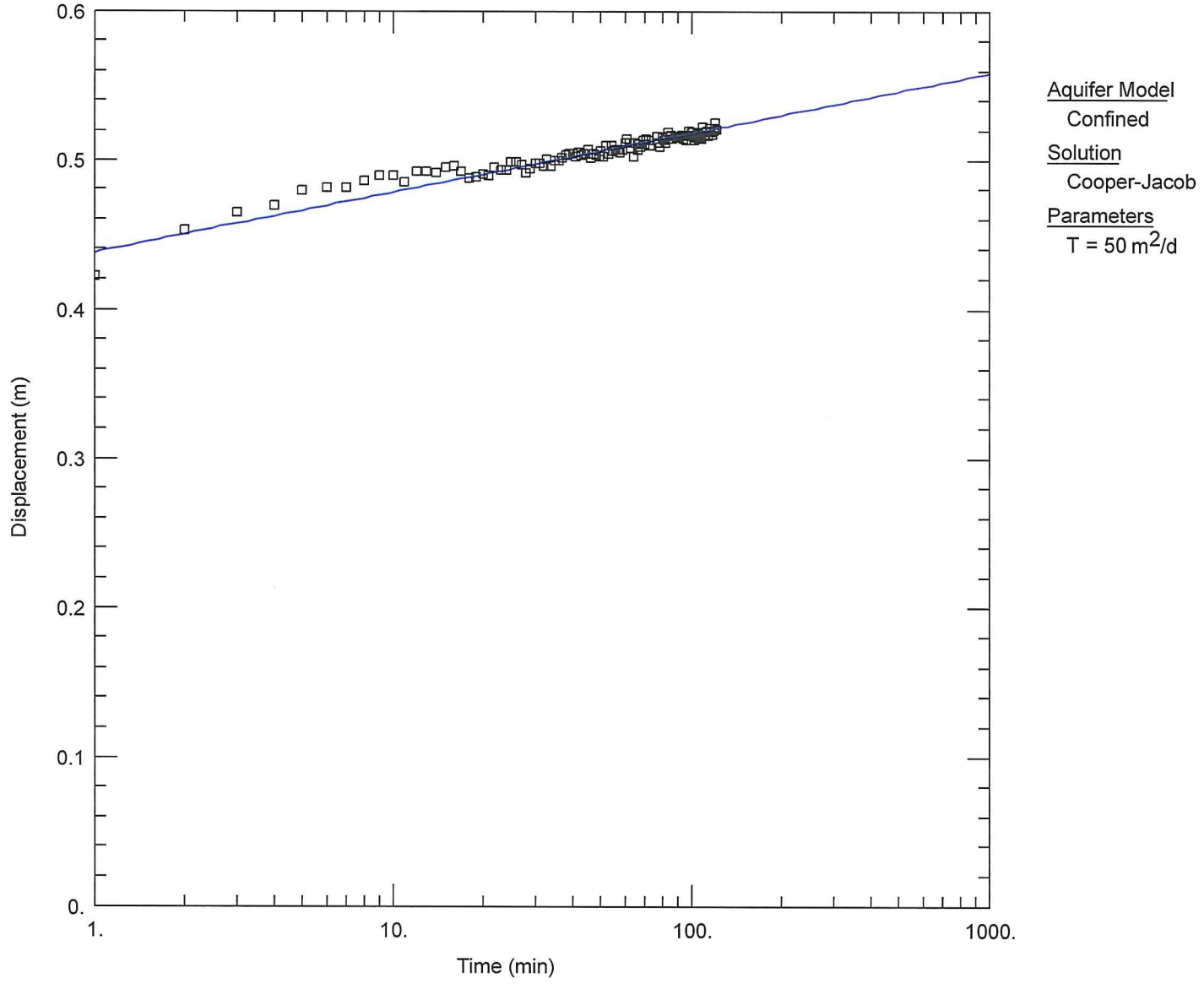
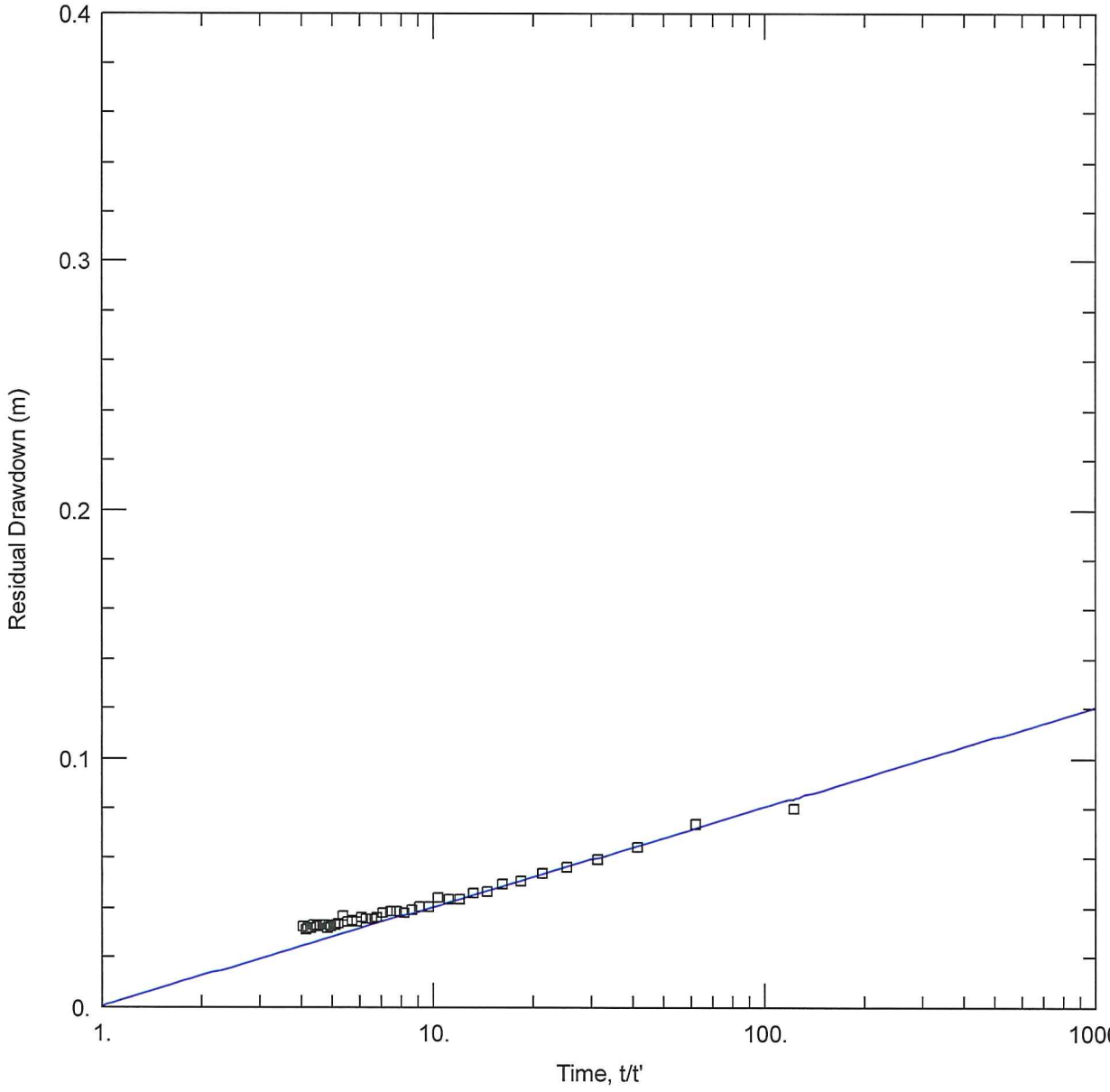


Figure A-3
Drawdown Analysis
MW QUAT 12-20
May 10, 2011

Westwater ENVIRONMENTAL LTD.

P:/13. Whitesands_Petrobank/329 - Dawson Project 2011/Figures - WaterActReport/Cooper-Jacob.cdr



Aquifer Model
Confined

Solution
Theis (Recovery)

Parameters
$T = 50\ m^2/d$

Figure A-4
Residual Drawdown Analysis
MW QUAT 12-20
May 10, 2011

Westwater ENVIRONMENTAL LTD.

Appendix B

Water Well Drilling Report for WSW 4-20

Alberta
ENVIRONMENT

Water Well Drilling Report

The data contained in this report is supplied by the Driller. The province disclaims responsibility for its accuracy. All information on this report will be retained in a public database.

Well I.D.
Map verified
Date report received:

❶ Contractor & Well Owner Information

Company Name: CARIBOO WATER WELLS LTD
Approval No.:
Mailing Address: BOX 7265
City or Town: PR. GEORGE
Postal Code: V2N2T8
Well Owner's Name: PETROBANK ENERGY & RESOURCES LTD
Well Owner has a copy of this report: ☑ Yes ☐ No
Mailing Address: 1900 - 111 - 5th Ave SW
City or Town: CALGARY
Postal Code: AB T2P 3Y6

❷ Well Location

1/4 or LSD	Sec	Twp	Rge	West of Meridian
04	20	81	15	5

Location in Quarter: ☐ m/ft from ☐ N ☐ S
☐ m/ft from ☐ E ☐ W
Lot | Block | Plan | Boundary

❸ Drilling Information

Type of Work: ☐ Testhole ☑ New Well ☐ Reconstructed ☐ Deepened ☐ Decommissioned
Well ID (if applicable):
Date Completed: Yr Mo Day
Casing or liner removed (specify):
Plugging Material: ☐ Cement Amount used: ☐ High Solids Bentonite Amount used: ☐ Hydrated Bentonite Amount used:
Method of Drilling: AIR ☐ Auger ☐ Boring ☐ Cable tool ☑ Rotary ☐ Combination ☐ Backhoe ☐ Other:

Proposed well use:
☐ Household (up to 1250 m³ per year with a residence on the property)
☐ Other
Specify:

❹ Formation Log

Depth from ground level (☐ metres ☐ feet)	Lithology Description
0	
170	CLAY
190	COARSE SAND & FINE GRAVELS
191	CLAY

Water Used to Drill Well:
Location of Water Source:
Water Diversion Date: Yr Mo Day
Time: am/pm
Amount Water Taken: Litres/Imp. Gallons

GPS Co-ordinates (Decimal Degrees):
Latitude: Longitude: GPS Elevation:
Level of GPS Accuracy:
☐ Diff. Corr. Hand Held 5-10m ☐ Surveyed GPS <1m
☐ Hand Held Auto 20-30m

Geophysical Log taken: ☐ Electric ☐ Gamma
Did you encounter: ☐ Mineralized water more than 4000 ppm TDS ☐ Gas At what depth:

Remedial action taken:

Additional Comments:

❺ Well Completion

Date Started: Yr Mo Day 11 05 22
Date Completed: Yr Mo Day 11 05 22
Are measurements in metric or Imperial?

Casing Details:

	Surface Seal	Casing	Liner/Inner Casing
Diameter of borehole	10"	6"	
Casing type		STEEL	
Size OD		6 5/8	
Wall thickness		.179	
Bottom at	18 FT	172	
Top at	0	+ 2	
Annular Sealant	☐ Cement ☑ Bentonite From: 0 To: 18	☐ Cement ☐ Bentonite ☑ Driven ☐ Shale Trap From: +2 To: 172	☐ Cement ☐ Bentonite ☐ Driven ☐ Shale Trap From: To:

Production Interval Details:

Perforations: from: to:
from: to:
Perforation size: X
Perforated by: ☐ Saw ☐ Torch ☐ Machine ☐ Other:
Screen type: JOHNSON Size OD: 6" TEL
Intervals: from: 172 to 188 slot size: # 6
from: to: slot size:
Installation: ☐ Attached to casing ☑ Telescoped
Fittings: Top ☑ Packer ☐ Coupler Bottom ☐ Wash-down ☑ Bail ☐ Plug
Pack: ☐ Artificial/Mechanical ☑ Natural
Grain size: Amount:

❻ Well Yield

Test Date: Yr Mo Day 11 05 23 Start Time: 11:00 AM 5:00 PM
Test method: ☐ Pump ☐ Baller ☑ Air
Are measurements in metric or Imperial?
Non pumping static water level: 75 FT
Rate of water removal: 40 GPM
Depth of pump intake if pump tested:
Depth bailed or air tested from: 185 FT
Water level at end of water removal period:
Distance from top of casing to ground level: 24"
Measurements taken from:

Depth to water level — Pumping	Elapsed Time (minutes)	Recovery
	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	12	
	14	
	16	
	20	
	25	
	30	
	35	
	40	
	50	
	60	
	75	
	90	
	105	
	120	

If water removal was less than 2 hr. duration, reason why:
Recommended pumping rate:
Recommended pump intake:
Pump installed ☐ Yes Depth:
Type: Model: H.P:

❼ Contractor Certification

Driller's Name: John Vlcher
Certification No.: CARIBOO WATER WELLS
This well was constructed in accordance with the *Water (Ministerial) Regulation* of the *Water Act*. All information in this report is true.
Signature: John Vlcher Yr Mo Day 11 05 23

(ENVIR 01/06) White copy: Alberta Environment Yellow copy: Well Owner Pink copy: Contractor

Appendix C

Laboratory Report

Maxxam

Success Through Science®

Your Project #: 13.329.3, PETROBANK DAWSON
Site Location: 04-20-081-15 W5M
Your C.O.C. #: 21231

Attention: WAYNE BELL
WESTWATER ENVIRONMENTAL LTD.
SUITE 900, 808 - 4TH AVENUE SW
CALGARY, AB
CANADA T2P 3E8

Report Date: 2011/09/22

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B186232
Received: 2011/09/13, 9:10

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH	2	N/A	2011/09/16	AB SOP-00005	SM 2320-B
BTEX/F1 in Water by HS GC/MS	2	N/A	2011/09/17	CAL SOP-00190	CCME CWS, EPA 8260C
Cadmium - low level CCME - Dissolved	2	N/A	2011/09/19	AB SOP-00043	EPA 200.8
Cadmium - low level CCME (Total)	2	2011/09/13	2011/09/19	AB SOP-00043	EPA 200.8
Chloride by Automated Colourimetry	2	N/A	2011/09/17	AB SOP-00020	EPA 325.2
Conductivity @25C	2	N/A	2011/09/16	AB SOP-00005	SM 2510-B
Fluoride	2	N/A	2011/09/18	AB SOP-00005	SM 4500-F C
CCME Hydrocarbons in Water (F2; C10-C16)	1	2011/09/14	2011/09/16	AB SOP-00040 AB SOP-00037	EPA3510C/CCME PHCCWS
CCME Hydrocarbons in Water (F2; C10-C16)	1	2011/09/14	2011/09/17	AB SOP-00040 AB SOP-00037	EPA3510C/CCME PHCCWS
Sulphide (as H2S)	2	N/A	2011/09/15		
Hardness	2	N/A	2011/09/20	AB WI-00065	SM 2340B
Mercury - Low Level (Dissolved)	2	2011/09/20	2011/09/21	CAL SOP-00007	EPA 1631
Mercury - Low Level (Total)	2	2011/09/20	2011/09/21	CAL SOP-00007	EPA 1631
Elements by ICP - Dissolved	2	N/A	2011/09/19	AB SOP-00042	EPA 200.7
Elements by ICP - Total	2	2011/09/15	2011/09/19	AB SOP-00042	EPA 200.7
Elements by ICPMS - Dissolved	2	N/A	2011/09/16	AB SOP-00043	EPA 200.8
Elements by ICPMS - Total	2	2011/09/15	2011/09/16	AB SOP-00043	EPA 200.8
Ion Balance	2	N/A	2011/09/14	AB WI-00065	SM 1030E
Sum of cations, anions	2	N/A	2011/09/20	AB WI-00065	SM 1030E
Naphthenic Acids by IR	2	2011/09/15	2011/09/19	CAL SOP-00085	EPA 3510C/IR
Ammonia-N (Total)	2	N/A	2011/09/15	AB SOP-00007	EPA 350.1
Nitrate and Nitrite	2	N/A	2011/09/18		CAL SOP-00060
Nitrate + Nitrite-N (calculated)	2	N/A	2011/09/18	AB SOP-00023	SM 4110-B
Nitrogen, (Nitrite, Nitrate) by IC	2	N/A	2011/09/16	AB SOP-00023	SM 4110-B
Oil and Grease by IR	2	2011/09/15	2011/09/19	CAL SOP-00096	SM 5520C
Benzo[a]pyrene Equivalency	2	N/A	2011/09/18	AB SOP-00003	EPA 8270D
Polycyclic Aromatic Hydrocarbons (1)	2	2011/09/14	2011/09/17	AB SOP-00003 AB SOP-00037	EPA 3510C/8270D
pH @25°C (Alkalinity titrator)	2	N/A	2011/09/16	AB SOP-00005	SM 4500-H+B
Phenols (4-AAP)	2	N/A	2011/09/14	CAL SOP-00067	EPA 420.2
Sulphide	2	N/A	2011/09/15	EENVSOP-00096	SM 4500-S2 D
Silica (Reactive)	2	N/A	2011/09/19	AB SOP-00011	EPA 370.1
Sulphate by Automated Colourimetry	2	N/A	2011/09/17	AB SOP-00018	EPA 375.4
Total Dissolved Solids (Calculated)	2	N/A	2011/09/20	AB WI-00065	SM 1030E
Total Kjeldahl Nitrogen	2	2011/09/16	2011/09/16	AB SOP-00008	EPA 351.1, 351.2
Carbon (Total Organic)	2	N/A	2011/09/14	CAL SOP-00077	SM 5310A

../2

Your Project #: 13.329.3, PETROBANK DAWSON
Site Location: 04-20-081-15 W5M
Your C.O.C. #: 21231

Attention: WAYNE BELL
WESTWATER ENVIRONMENTAL LTD.
SUITE 900, 808 - 4TH AVENUE SW
CALGARY, AB
CANADA T2P 3E8

Report Date: 2011/09/22

CERTIFICATE OF ANALYSIS

-2-

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Total Suspended Solids (NFR)	2	2011/09/15	2011/09/15	CAL SOP-00075	SM 2540-D
Turbidity	2	N/A	2011/09/15	CAL SOP-00081	SM 2130B

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) B[a]P TPE is calculated using 1/2 of the RDL for non detect results as per Alberta Environment instructions. This protocol may not apply in other jurisdictions.

Encryption Key

Parminder Virk

22 Sep 2011 15:30:00 -06:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Parminder Virk, Project Manager
Email: PVirk@maxxam.ca
Phone# (403) 291-3077

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B186232
Report Date: 2011/09/22

WESTWATER ENVIRONMENTAL LTD.
Client Project #: 13.329.3, PETROBANK DAWSON
Site Location: 04-20-081-15 W5M
Sampler Initials: CR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		BN0833	BN0833		BN0836		
Sampling Date		2011/09/09 07:38	2011/09/09 07:38		2011/09/10 07:20		
COC Number		21231	21231		21231		
	Units	**4-20A**	**4-20A Lab-Dup**	**QC Batch**	**4-20B**	**RDL**	**QC Batch**
Calculated Parameters							
Anion Sum	meq/L	21	N/A	5170263	21	N/A	5170263
Cation Sum	meq/L	19	N/A	5170263	19	N/A	5170263
Hardness (CaCO3)	mg/L	740	N/A	5170249	750	0.5	5170249
Hydrogen Sulphide (H2S)	mg/L	0.004	N/A	5168880	0.004	0.002	5168880
Ion Balance	N/A	0.91	N/A	5170262	0.92	0.01	5170262
Dissolved Nitrate (NO3)	mg/L	<0.01	N/A	5170128	<0.01	0.01	5170128
Nitrate plus Nitrite (N)	mg/L	<0.003	N/A	5170129	<0.003	0.003	5170129
Dissolved Nitrite (NO2)	mg/L	<0.01	N/A	5170128	<0.01	0.01	5170128
Total Dissolved Solids	mg/L	1200	N/A	5169960	1200	10	5171277
Misc. Inorganics							
Conductivity	uS/cm	1700	N/A	5180661	1700	1	5180661
pH	N/A	7.79	N/A	5180662	7.83	N/A	5180662
Reactive Silica	mg/L	18 (1)	18	5188078	18 (1)	0.3	5188078
Total Organic Carbon (C)	mg/L	8.9	N/A	5172749	8.8	0.5	5172749
Total Suspended Solids	mg/L	11	N/A	5175358	11	1	5175358
Low Level Elements							
Dissolved Cadmium (Cd)	ug/L	0.051	N/A	5169872	0.037	0.005	5169872
Total Cadmium (Cd)	ug/L	0.025	N/A	5169013	0.026	0.005	5169013
Anions							
Alkalinity (PP as CaCO3)	mg/L	<0.5	N/A	5180659	<0.5	0.5	5180659
Alkalinity (Total as CaCO3)	mg/L	460	N/A	5180659	460	0.5	5180659
Bicarbonate (HCO3)	mg/L	570	N/A	5180659	570	0.5	5180659
Carbonate (CO3)	mg/L	<0.5	N/A	5180659	<0.5	0.5	5180659
Dissolved Fluoride (F)	mg/L	0.38	N/A	5185090	0.37	0.05	5185090
Hydroxide (OH)	mg/L	<0.5	N/A	5180659	<0.5	0.5	5180659
Dissolved Sulphate (SO4)	mg/L	550 (1)	N/A	5184500	560 (1)	5	5184500
Sulphide	mg/L	0.004	N/A	5177195	0.004	0.002	5177195
Dissolved Chloride (Cl)	mg/L	1	N/A	5184498	<1	1	5184498
Nutrients							
Total Ammonia (N)	mg/L	2.0 (1)	N/A	5178995	2.1 (1)	0.3	5178995

N/A = Not Applicable
RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
(1) Detection limits raised due to dilution to bring analyte within the calibrated range.

Maxxam Job #: B186232
Report Date: 2011/09/22

WESTWATER ENVIRONMENTAL LTD.
Client Project #: 13.329.3, PETROBANK DAWSON
Site Location: 04-20-081-15 W5M
Sampler Initials: CR

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		BN0833	BN0833		BN0836		
Sampling Date		2011/09/09 07:38	2011/09/09 07:38		2011/09/10 07:20		
COC Number		21231	21231		21231		
	Units	**4-20A**	**4-20A Lab-Dup**	**QC Batch**	**4-20B**	**RDL**	**QC Batch**
Total Total Kjeldahl Nitrogen	mg/L	2.9 (1)	N/A	5183293	2.9 (1)	0.3	5183293
Dissolved Nitrite (N)	mg/L	<0.003	N/A	5183365	<0.003	0.003	5183365
Dissolved Nitrate (N)	mg/L	<0.003	N/A	5183365	<0.003	0.003	5183365
Misc. Organics							
Naphthenic Acids	mg/L	<1.0	N/A	5172311	<1.0	1.0	5172311
Oil and grease	mg/L	<2	N/A	5174843	<2	2	5174843
Phenols	mg/L	<0.002	N/A	5173242	<0.002	0.002	5173242
Physical Properties							
Turbidity	NTU	74	N/A	5175362	70	0.1	5175362

N/A = Not Applicable
RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
(1) Detection limits raised due to dilution to bring analyte within the calibrated range.

Maxxam Job #: B186232
Report Date: 2011/09/22

WESTWATER ENVIRONMENTAL LTD.
Client Project #: 13.329.3, PETROBANK DAWSON
Site Location: 04-20-081-15 W5M
Sampler Initials: CR

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		BN0833	BN0836	BN0836		
Sampling Date		2011/09/09 07:38	2011/09/10 07:20	2011/09/10 07:20		
COC Number		21231	21231	21231		
	Units	**4-20A**	**4-20B**	**4-20B Lab-Dup**	**RDL**	**QC Batch**
Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	mg/L	<0.1	<0.1	<0.1	0.1	5182520
Surrogate Recovery (%)						
O-TERPHENYL (sur.)	%	96	91	92	N/A	5182520

N/A = Not Applicable
RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B186232
Report Date: 2011/09/22

WESTWATER ENVIRONMENTAL LTD.
Client Project #: 13.329.3, PETROBANK DAWSON
Site Location: 04-20-081-15 W5M
Sampler Initials: CR

SEMIVOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		BN0833	BN0836	BN0836		
Sampling Date		2011/09/09 07:38	2011/09/10 07:20	2011/09/10 07:20		
COC Number		21231	21231	21231		
	Units	**4-20A**	**4-20B**	**4-20B Lab-Dup**	**RDL**	**QC Batch**
Polycyclic Aromatics						
Benzo[a]pyrene equivalency	ug/L	<0.01	<0.01	N/A	0.01	5169895
Acenaphthene	ug/L	<0.10	<0.10	<0.10	0.10	5180645
Acenaphthylene	ug/L	<0.10	<0.10	<0.10	0.10	5180645
Acridine	ug/L	<0.20	<0.20	<0.20	0.20	5180645
Anthracene	ug/L	<0.010	<0.010	<0.010	0.010	5180645
Benzo(a)anthracene	ug/L	<0.0085	<0.0085	<0.0085	0.0085	5180645
Benzo(b&j)fluoranthene	ug/L	<0.0085	<0.0085	<0.0085	0.0085	5180645
Benzo(k)fluoranthene	ug/L	<0.0085	<0.0085	<0.0085	0.0085	5180645
Benzo(g,h,i)perylene	ug/L	<0.0085	<0.0085	<0.0085	0.0085	5180645
Benzo(c)phenanthrene	ug/L	<0.050	<0.050	<0.050	0.050	5180645
Benzo(a)pyrene	ug/L	<0.0075	<0.0075	<0.0075	0.0075	5180645
Benzo[e]pyrene	ug/L	<0.050	<0.050	<0.050	0.050	5180645
Chrysene	ug/L	<0.0085	<0.0085	<0.0085	0.0085	5180645
Dibenz(a,h)anthracene	ug/L	<0.0075	<0.0075	<0.0075	0.0075	5180645
Fluoranthene	ug/L	<0.040	<0.040	<0.040	0.040	5180645
Fluorene	ug/L	<0.050	<0.050	<0.050	0.050	5180645
Indeno(1,2,3-cd)pyrene	ug/L	<0.0085	<0.0085	<0.0085	0.0085	5180645
2-Methylnaphthalene	ug/L	<0.10	<0.10	<0.10	0.10	5180645
Naphthalene	ug/L	<0.10	<0.10	<0.10	0.10	5180645
Phenanthrene	ug/L	<0.050	<0.050	<0.050	0.050	5180645
Perylene	ug/L	<0.050	<0.050	<0.050	0.050	5180645
Pyrene	ug/L	<0.020	<0.020	<0.020	0.020	5180645
Quinoline	ug/L	<0.20	<0.20	<0.20	0.20	5180645
Surrogate Recovery (%)						
D10-ANTHRACENE (sur.)	%	98	102	97	N/A	5180645
D12-BENZO(A)PYRENE (sur.)	%	119	129	118	N/A	5180645
D8-ACENAPHTHYLENE (sur.)	%	105	114	111	N/A	5180645
TERPHENYL-D14 (sur.)	%	109	118	110	N/A	5180645

N/A = Not Applicable
RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B186232
Report Date: 2011/09/22

WESTWATER ENVIRONMENTAL LTD.
Client Project #: 13.329.3, PETROBANK DAWSON
Site Location: 04-20-081-15 W5M
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BN0833	BN0836		
Sampling Date		2011/09/09 07:38	2011/09/10 07:20		
COC Number		21231	21231		
	Units	**4-20A**	**4-20B**	**RDL**	**QC Batch**
Elements					
Dissolved Aluminum (Al)	mg/L	0.003	0.002 (1)	0.001	5178089
Total Aluminum (Al)	mg/L	0.005	0.002	0.001	5178082
Dissolved Antimony (Sb)	mg/L	<0.0006	<0.0006	0.0006	5178089
Total Antimony (Sb)	mg/L	<0.0006	<0.0006	0.0006	5178082
Dissolved Arsenic (As)	mg/L	0.071 (2)	0.072 (2)	0.0002	5178089
Total Arsenic (As)	mg/L	0.062	0.062	0.0002	5178082
Dissolved Barium (Ba)	mg/L	<0.01	<0.01	0.01	5182263
Total Barium (Ba)	mg/L	0.01	0.01	0.01	5182198
Dissolved Beryllium (Be)	mg/L	<0.001	<0.001	0.001	5178089
Total Beryllium (Be)	mg/L	<0.001	<0.001	0.001	5178082
Dissolved Boron (B)	mg/L	0.68 (2)	0.69 (2)	0.02	5182263
Total Boron (B)	mg/L	0.61	0.62	0.02	5182198
Dissolved Calcium (Ca)	mg/L	180	180	0.3	5182263
Total Calcium (Ca)	mg/L	230	230	0.3	5182198
Dissolved Chromium (Cr)	mg/L	<0.001	<0.001	0.001	5178089
Total Chromium (Cr)	mg/L	<0.001	<0.001	0.001	5178082
Dissolved Cobalt (Co)	mg/L	0.0010	0.0010 (1)	0.0003	5178089
Total Cobalt (Co)	mg/L	0.0010	0.0009	0.0003	5178082
Dissolved Copper (Cu)	mg/L	0.0015 (3)	0.0007 (1)	0.0002	5178089
Total Copper (Cu)	mg/L	<0.0002	<0.0002	0.0002	5178082
Dissolved Iron (Fe)	mg/L	0.17	0.15	0.06	5182263
Total Iron (Fe)	mg/L	6.4	6.4	0.06	5182198
Dissolved Lead (Pb)	mg/L	<0.0002	<0.0002	0.0002	5178089
Total Lead (Pb)	mg/L	<0.0002	<0.0002	0.0002	5178082
Dissolved Lithium (Li)	mg/L	0.17 (2)	0.17 (2)	0.02	5182263
Total Lithium (Li)	mg/L	0.15	0.15	0.02	5182198
Dissolved Magnesium (Mg)	mg/L	72 (2)	73 (2)	0.2	5182263
Total Magnesium (Mg)	mg/L	65	66	0.2	5182198
Dissolved Manganese (Mn)	mg/L	0.012	0.028	0.004	5182263
Total Manganese (Mn)	mg/L	0.41	0.41	0.004	5182198

RDL = Reportable Detection Limit
(1) Dissolved greater than total. Results are within limits of uncertainty(MU).
(2) Dissolved greater than total. Results within acceptable limits of precision.
(3) Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B186232
Report Date: 2011/09/22

WESTWATER ENVIRONMENTAL LTD.
Client Project #: 13.329.3, PETROBANK DAWSON
Site Location: 04-20-081-15 W5M
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BN0833	BN0836		
Sampling Date		2011/09/09 07:38	2011/09/10 07:20		
COC Number		21231	21231		
	Units	**4-20A**	**4-20B**	**RDL**	**QC Batch**
Dissolved Molybdenum (Mo)	mg/L	0.041	0.042	0.0002	5178089
Total Molybdenum (Mo)	mg/L	0.044	0.043	0.0002	5178082
Dissolved Nickel (Ni)	mg/L	0.0010 (1)	0.0009	0.0005	5178089
Total Nickel (Ni)	mg/L	0.0009	0.0009	0.0005	5178082
Dissolved Phosphorus (P)	mg/L	<0.1	<0.1	0.1	5182263
Total Phosphorus (P)	mg/L	0.7	0.7	0.1	5182198
Dissolved Potassium (K)	mg/L	11 (2)	11 (2)	0.3	5182263
Total Potassium (K)	mg/L	10	10	0.3	5182198
Dissolved Selenium (Se)	mg/L	<0.0002	<0.0002	0.0002	5178089
Total Selenium (Se)	mg/L	<0.0002	<0.0002	0.0002	5178082
Dissolved Silicon (Si)	mg/L	8.8 (2)	8.8 (2)	0.1	5182263
Total Silicon (Si)	mg/L	8.0	8.1	0.1	5182198
Dissolved Silver (Ag)	mg/L	<0.0001	<0.0001	0.0001	5178089
Total Silver (Ag)	mg/L	<0.0001	<0.0001	0.0001	5178082
Dissolved Sodium (Na)	mg/L	87 (2)	87 (2)	0.5	5182263
Total Sodium (Na)	mg/L	78	77	0.5	5182198
Dissolved Strontium (Sr)	mg/L	1.8	1.8	0.02	5182263
Total Strontium (Sr)	mg/L	1.8	1.8	0.02	5182198
Dissolved Sulphur (S)	mg/L	200 (2)	200 (2)	0.2	5182263
Total Sulphur (S)	mg/L	180	180	0.2	5182198
Dissolved Thallium (Tl)	mg/L	<0.0002	<0.0002	0.0002	5178089
Total Thallium (Tl)	mg/L	<0.0002	<0.0002	0.0002	5178082
Dissolved Tin (Sn)	mg/L	<0.001	<0.001	0.001	5178089
Total Tin (Sn)	mg/L	<0.001	<0.001	0.001	5178082
Dissolved Titanium (Ti)	mg/L	<0.001	<0.001	0.001	5178089
Total Titanium (Ti)	mg/L	<0.001	<0.001	0.001	5178082
Dissolved Uranium (U)	mg/L	0.0015	0.0016 (2)	0.0001	5178089
Total Uranium (U)	mg/L	0.0016	0.0015	0.0001	5178082
Dissolved Vanadium (V)	mg/L	<0.001	<0.001	0.001	5178089
Total Vanadium (V)	mg/L	<0.001	<0.001	0.001	5178082
Dissolved Zinc (Zn)	mg/L	0.018 (3)	0.017 (3)	0.003	5178089

RDL = Reportable Detection Limit
(1) Dissolved greater than total. Results are within limits of uncertainty(MU).
(2) Dissolved greater than total. Results within acceptable limits of precision.
(3) Dissolved greater than total. Reanalysis yields similar results

Maxxam Job #: B186232
Report Date: 2011/09/22

WESTWATER ENVIRONMENTAL LTD.
Client Project #: 13.329.3, PETROBANK DAWSON
Site Location: 04-20-081-15 W5M
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		BN0833	BN0836		
Sampling Date		2011/09/09 07:38	2011/09/10 07:20		
COC Number		21231	21231		
	Units	**4-20A**	**4-20B**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.004	0.003	0.003	5178082
Low Level Elements					
Dissolved Mercury (Hg)	ug/L	0.005 (1)	<0.002	0.002	5190741
Total Mercury (Hg)	ug/L	0.003	0.006	0.002	5190613

RDL = Reportable Detection Limit
(1) Dissolved greater than total. Results within acceptable limits of precision.

Maxxam Job #: B186232
Report Date: 2011/09/22

WESTWATER ENVIRONMENTAL LTD.
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Sampler Initials: CR

VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		BN0833	BN0836		
Sampling Date		2011/09/09 07:38	2011/09/10 07:20		
COC Number		21231	21231		
	Units	**4-20A**	**4-20B**	**RDL**	**QC Batch**
Volatiles					
Benzene	ug/L	<0.4	<0.4	0.4	5172105
Toluene	ug/L	<0.4	<0.4	0.4	5172105
Ethylbenzene	ug/L	<0.4	<0.4	0.4	5172105
o-Xylene	ug/L	<0.4	<0.4	0.4	5172105
m & p-Xylene	ug/L	<0.8	<0.8	0.8	5172105
Xylenes (Total)	ug/L	<0.8	<0.8	0.8	5172105
F1 (C6-C10) - BTEX	ug/L	<100	<100	100	5172105
(C6-C10)	ug/L	<100	<100	100	5172105
Surrogate Recovery (%)					
1,4-Difluorobenzene (sur.)	%	103	104	N/A	5172105
4-BROMOFLUOROBENZENE (sur.)	%	97	95	N/A	5172105
D4-1,2-DICHLOROETHANE (sur.)	%	117	116	N/A	5172105

N/A = Not Applicable
RDL = Reportable Detection Limit

Maxxam Job #: B186232
Report Date: 2011/09/22

WESTWATER ENVIRONMENTAL LTD.
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Sampler Initials: CR

Package 1	3.0°C

Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Results relate only to the items tested.

WESTWATER ENVIRONMENTAL LTD.
Attention: WAYNE BELL
Client Project #: 13.329.3, PETROBANK DAWSON
P.O. #:
Site Location: 04-20-081-15 W5M

Quality Assurance Report

Maxxam Job Number: CB186232

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5172105 AR	Matrix Spike	1,4-Difluorobenzene (sur.)	2011/09/17		107	%	70 - 130
		4-BROMOFLUOROBENZENE (sur.)	2011/09/17		109	%	70 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2011/09/17		108	%	70 - 130
		Benzene	2011/09/17		128	%	70 - 130
		Toluene	2011/09/17		126	%	70 - 130
		Ethylbenzene	2011/09/17		121	%	70 - 130
		o-Xylene	2011/09/17		114	%	70 - 130
		m & p-Xylene	2011/09/17		114	%	70 - 130
		(C6-C10)	2011/09/17		84	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene (sur.)	2011/09/17		107	%	70 - 130
		4-BROMOFLUOROBENZENE (sur.)	2011/09/17		107	%	70 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2011/09/17		105	%	70 - 130
		Benzene	2011/09/17		128	%	70 - 130
		Toluene	2011/09/17		128	%	70 - 130
		Ethylbenzene	2011/09/17		128	%	70 - 130
		o-Xylene	2011/09/17		118	%	70 - 130
		m & p-Xylene	2011/09/17		120	%	70 - 130
		(C6-C10)	2011/09/17		118	%	70 - 130
	Method Blank	1,4-Difluorobenzene (sur.)	2011/09/17		103	%	70 - 130
		4-BROMOFLUOROBENZENE (sur.)	2011/09/17		98	%	70 - 130
		D4-1,2-DICHLOROETHANE (sur.)	2011/09/17		109	%	70 - 130
		Benzene	2011/09/17	<0.4		ug/L	
		Toluene	2011/09/17	<0.4		ug/L	
		Ethylbenzene	2011/09/17	<0.4		ug/L	
		o-Xylene	2011/09/17	<0.4		ug/L	
		m & p-Xylene	2011/09/17	<0.8		ug/L	
		Xylenes (Total)	2011/09/17	<0.8		ug/L	
		F1 (C6-C10) - BTEX	2011/09/17	<100		ug/L	
		(C6-C10)	2011/09/17	<100		ug/L	
	RPD	Benzene	2011/09/17	1.6		%	40
		Toluene	2011/09/17	NC		%	40
		Ethylbenzene	2011/09/17	0.3		%	40
		o-Xylene	2011/09/17	NC		%	40
		m & p-Xylene	2011/09/17	2.0		%	40
		Xylenes (Total)	2011/09/17	2.0		%	40
		F1 (C6-C10) - BTEX	2011/09/17	NC		%	40
		(C6-C10)	2011/09/17	10.8		%	40
5172311 RC8	Matrix Spike	Naphthenic Acids	2011/09/15		84	%	70 - 130
	Spiked Blank	Naphthenic Acids	2011/09/15		80	%	70 - 120
	Method Blank	Naphthenic Acids	2011/09/15	<1.0		mg/L	
	RPD	Naphthenic Acids	2011/09/15	NC		%	40
5172749 LY	Matrix Spike	Total Organic Carbon (C)	2011/09/14		102	%	80 - 120
	Spiked Blank	Total Organic Carbon (C)	2011/09/14		102	%	84 - 120
	Method Blank	Total Organic Carbon (C)	2011/09/14	<0.5		mg/L	
	RPD	Total Organic Carbon (C)	2011/09/14	NC		%	20
5173242 AP1	Matrix Spike	Phenols	2011/09/14		97	%	80 - 120
	Spiked Blank	Phenols	2011/09/14		104	%	89 - 106
	Method Blank	Phenols	2011/09/14	<0.002		mg/L	
	RPD	Phenols	2011/09/14	NC		%	20
5174843 RC8	Spiked Blank	Oil and grease	2011/09/15		102	%	70 - 130
	Method Blank	Oil and grease	2011/09/15	<2		mg/L	
5175358 HE1	Spiked Blank	Total Suspended Solids	2011/09/15		91	%	81 - 105
	Method Blank	Total Suspended Solids	2011/09/15	<1		mg/L	
	RPD	Total Suspended Solids	2011/09/15	NC		%	20
5175362 HE1	Spiked Blank	Turbidity	2011/09/15		97	%	93 - 99

WESTWATER ENVIRONMENTAL LTD.
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Quality Assurance Report (Continued)

Maxxam Job Number: CB186232

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5175362 HE1	Method Blank	Turbidity	2011/09/15	<0.1		NTU	
	RPD	Turbidity	2011/09/15	2.6		%	20
5177195 LH8	Spiked Blank	Sulphide	2011/09/15		108	%	80 - 120
	Method Blank	Sulphide	2011/09/15	<0.002		mg/L	
	RPD	Sulphide	2011/09/15	NC		%	20
5178082 TDB	Matrix Spike	Total Aluminum (Al)	2011/09/16		NC	%	80 - 120
		Total Antimony (Sb)	2011/09/16		104	%	80 - 120
		Total Arsenic (As)	2011/09/16		91	%	80 - 120
		Total Beryllium (Be)	2011/09/16		92	%	80 - 120
		Total Chromium (Cr)	2011/09/16		98	%	80 - 120
		Total Cobalt (Co)	2011/09/16		98	%	80 - 120
		Total Copper (Cu)	2011/09/16		96	%	80 - 120
		Total Lead (Pb)	2011/09/16		98	%	80 - 120
		Total Molybdenum (Mo)	2011/09/16		104	%	80 - 120
		Total Nickel (Ni)	2011/09/16		99	%	80 - 120
		Total Selenium (Se)	2011/09/16		88	%	80 - 120
		Total Silver (Ag)	2011/09/16		98	%	80 - 120
		Total Thallium (Tl)	2011/09/16		90	%	80 - 120
		Total Tin (Sn)	2011/09/16		100	%	80 - 120
		Total Titanium (Ti)	2011/09/16		NC	%	80 - 120
		Total Uranium (U)	2011/09/16		94	%	80 - 120
		Total Vanadium (V)	2011/09/16		104	%	80 - 120
		Total Zinc (Zn)	2011/09/16		NC	%	80 - 120
	Spiked Blank	Total Aluminum (Al)	2011/09/16		102	%	80 - 120
		Total Antimony (Sb)	2011/09/16		113	%	80 - 120
		Total Arsenic (As)	2011/09/16		90	%	80 - 120
		Total Beryllium (Be)	2011/09/16		99	%	80 - 120
		Total Chromium (Cr)	2011/09/16		99	%	80 - 120
		Total Cobalt (Co)	2011/09/16		98	%	80 - 120
		Total Copper (Cu)	2011/09/16		99	%	80 - 120
		Total Lead (Pb)	2011/09/16		99	%	80 - 120
		Total Molybdenum (Mo)	2011/09/16		102	%	80 - 120
		Total Nickel (Ni)	2011/09/16		102	%	80 - 120
		Total Selenium (Se)	2011/09/16		85	%	80 - 120
		Total Silver (Ag)	2011/09/16		101	%	80 - 120
		Total Thallium (Tl)	2011/09/16		93	%	80 - 120
		Total Tin (Sn)	2011/09/16		102	%	80 - 120
		Total Titanium (Ti)	2011/09/16		100	%	80 - 120
		Total Uranium (U)	2011/09/16		93	%	80 - 120
		Total Vanadium (V)	2011/09/16		103	%	80 - 120
		Total Zinc (Zn)	2011/09/16		90	%	80 - 120
	Method Blank	Total Aluminum (Al)	2011/09/16	0.002, RDL=0.001		mg/L	
		Total Antimony (Sb)	2011/09/16	<0.0006		mg/L	
		Total Arsenic (As)	2011/09/16	0.0003, RDL=0.0002		mg/L	
		Total Beryllium (Be)	2011/09/16	<0.001		mg/L	
		Total Chromium (Cr)	2011/09/16	<0.001		mg/L	
		Total Cobalt (Co)	2011/09/16	<0.0003		mg/L	
		Total Copper (Cu)	2011/09/16	<0.0002		mg/L	
		Total Lead (Pb)	2011/09/16	<0.0002		mg/L	
		Total Molybdenum (Mo)	2011/09/16	<0.0002		mg/L	
		Total Nickel (Ni)	2011/09/16	<0.0005		mg/L	
		Total Selenium (Se)	2011/09/16	<0.0002		mg/L	
		Total Silver (Ag)	2011/09/16	<0.0001		mg/L	
		Total Thallium (Tl)	2011/09/16	<0.0002		mg/L	
		Total Tin (Sn)	2011/09/16	<0.001		mg/L	

WESTWATER ENVIRONMENTAL LTD.
Attention: WAYNE BELL
Client Project #: 13.329.3, PETROBANK DAWSON
P.O. #:
Site Location: 04-20-081-15 W5M

Quality Assurance Report (Continued)

Maxxam Job Number: CB186232

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5178082 TDB	Method Blank	Total Titanium (Ti)	2011/09/16	<0.001		mg/L	
		Total Uranium (U)	2011/09/16	<0.0001		mg/L	
		Total Vanadium (V)	2011/09/16	<0.001		mg/L	
		Total Zinc (Zn)	2011/09/16	<0.003		mg/L	
	RPD	Total Aluminum (Al)	2011/09/16	5.1		%	20
		Total Antimony (Sb)	2011/09/16	NC		%	20
		Total Arsenic (As)	2011/09/16	0.8		%	20
		Total Beryllium (Be)	2011/09/16	NC		%	20
		Total Chromium (Cr)	2011/09/16	NC		%	20
		Total Cobalt (Co)	2011/09/16	0.5		%	20
		Total Copper (Cu)	2011/09/16	9.3		%	20
		Total Lead (Pb)	2011/09/16	1.8		%	20
		Total Molybdenum (Mo)	2011/09/16	5.6		%	20
		Total Nickel (Ni)	2011/09/16	1.4		%	20
		Total Selenium (Se)	2011/09/16	NC		%	20
		Total Silver (Ag)	2011/09/16	NC		%	20
		Total Thallium (Tl)	2011/09/16	NC		%	20
		Total Tin (Sn)	2011/09/16	NC		%	20
		Total Titanium (Ti)	2011/09/16	1.5		%	20
		Total Uranium (U)	2011/09/16	0.2		%	20
		Total Vanadium (V)	2011/09/16	1.3		%	20
		Total Zinc (Zn)	2011/09/16	8.6		%	20
5178089 TDB	Matrix Spike	Dissolved Aluminum (Al)	2011/09/16		NC	%	80 - 120
		Dissolved Antimony (Sb)	2011/09/16		97	%	80 - 120
		Dissolved Arsenic (As)	2011/09/16		100	%	80 - 120
		Dissolved Beryllium (Be)	2011/09/16		119	%	80 - 120
		Dissolved Chromium (Cr)	2011/09/16		98	%	80 - 120
		Dissolved Cobalt (Co)	2011/09/16		97	%	80 - 120
		Dissolved Copper (Cu)	2011/09/16		90	%	80 - 120
		Dissolved Lead (Pb)	2011/09/16		92	%	80 - 120
		Dissolved Molybdenum (Mo)	2011/09/16		106	%	80 - 120
		Dissolved Nickel (Ni)	2011/09/16		93	%	80 - 120
		Dissolved Selenium (Se)	2011/09/16		105	%	80 - 120
		Dissolved Silver (Ag)	2011/09/16		83	%	80 - 120
		Dissolved Thallium (Tl)	2011/09/16		94	%	80 - 120
		Dissolved Tin (Sn)	2011/09/16		87	%	80 - 120
		Dissolved Titanium (Ti)	2011/09/16		108	%	80 - 120
		Dissolved Uranium (U)	2011/09/16		93	%	80 - 120
		Dissolved Vanadium (V)	2011/09/16		105	%	80 - 120
		Dissolved Zinc (Zn)	2011/09/16		94	%	80 - 120
	Spiked Blank	Dissolved Aluminum (Al)	2011/09/15		96	%	80 - 120
		Dissolved Antimony (Sb)	2011/09/15		96	%	80 - 120
		Dissolved Arsenic (As)	2011/09/15		91	%	80 - 120
		Dissolved Beryllium (Be)	2011/09/15		94	%	80 - 120
		Dissolved Chromium (Cr)	2011/09/15		94	%	80 - 120
		Dissolved Cobalt (Co)	2011/09/15		94	%	80 - 120
		Dissolved Copper (Cu)	2011/09/15		98	%	80 - 120
		Dissolved Lead (Pb)	2011/09/15		93	%	80 - 120
		Dissolved Molybdenum (Mo)	2011/09/15		96	%	80 - 120
		Dissolved Nickel (Ni)	2011/09/15		94	%	80 - 120
		Dissolved Selenium (Se)	2011/09/15		94	%	80 - 120
		Dissolved Silver (Ag)	2011/09/15		90	%	80 - 120
		Dissolved Thallium (Tl)	2011/09/15		93	%	80 - 120
		Dissolved Tin (Sn)	2011/09/15		94	%	80 - 120
		Dissolved Titanium (Ti)	2011/09/15		93	%	80 - 120

WESTWATER ENVIRONMENTAL LTD.
Attention: WAYNE BELL
Client Project #: 13.329.3, PETROBANK DAWSON
P.O. #:
Site Location: 04-20-081-15 W5M

Quality Assurance Report (Continued)

Maxxam Job Number: CB186232

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5178089 TDB	Spiked Blank	Dissolved Uranium (U)	2011/09/15		95	%	80 - 120
		Dissolved Vanadium (V)	2011/09/15		96	%	80 - 120
		Dissolved Zinc (Zn)	2011/09/15		98	%	80 - 120
	Method Blank	Dissolved Aluminum (Al)	2011/09/16	0.002, RDL=0.001		mg/L	
		Dissolved Antimony (Sb)	2011/09/16	<0.0006		mg/L	
		Dissolved Arsenic (As)	2011/09/16	<0.0002		mg/L	
		Dissolved Beryllium (Be)	2011/09/16	<0.001		mg/L	
		Dissolved Chromium (Cr)	2011/09/16	<0.001		mg/L	
		Dissolved Cobalt (Co)	2011/09/16	<0.0003		mg/L	
		Dissolved Copper (Cu)	2011/09/16	<0.0002		mg/L	
		Dissolved Lead (Pb)	2011/09/16	<0.0002		mg/L	
		Dissolved Molybdenum (Mo)	2011/09/16	<0.0002		mg/L	
		Dissolved Nickel (Ni)	2011/09/16	<0.0005		mg/L	
		Dissolved Selenium (Se)	2011/09/16	<0.0002		mg/L	
		Dissolved Silver (Ag)	2011/09/16	<0.0001		mg/L	
		Dissolved Thallium (Tl)	2011/09/16	<0.0002		mg/L	
		Dissolved Tin (Sn)	2011/09/16	<0.001		mg/L	
		Dissolved Titanium (Ti)	2011/09/16	<0.001		mg/L	
		Dissolved Uranium (U)	2011/09/16	<0.0001		mg/L	
		Dissolved Vanadium (V)	2011/09/16	<0.001		mg/L	
		Dissolved Zinc (Zn)	2011/09/16	<0.003		mg/L	
	RPD	Dissolved Aluminum (Al)	2011/09/16	4.7		%	20
		Dissolved Antimony (Sb)	2011/09/16	NC		%	20
		Dissolved Arsenic (As)	2011/09/16	NC		%	20
		Dissolved Beryllium (Be)	2011/09/16	NC		%	20
		Dissolved Chromium (Cr)	2011/09/16	NC		%	20
		Dissolved Cobalt (Co)	2011/09/16	NC		%	20
		Dissolved Copper (Cu)	2011/09/16	NC		%	20
		Dissolved Lead (Pb)	2011/09/16	NC		%	20
		Dissolved Molybdenum (Mo)	2011/09/16	6.0		%	20
		Dissolved Nickel (Ni)	2011/09/16	NC		%	20
		Dissolved Selenium (Se)	2011/09/16	NC		%	20
		Dissolved Silver (Ag)	2011/09/16	NC		%	20
		Dissolved Thallium (Tl)	2011/09/16	NC		%	20
		Dissolved Tin (Sn)	2011/09/16	NC		%	20
		Dissolved Titanium (Ti)	2011/09/16	NC		%	20
		Dissolved Uranium (U)	2011/09/16	0.5		%	20
		Dissolved Vanadium (V)	2011/09/16	NC		%	20
		Dissolved Zinc (Zn)	2011/09/16	NC		%	20
5178995 ZI	Matrix Spike	Total Ammonia (N)	2011/09/15		99	%	80 - 120
	Spiked Blank	Total Ammonia (N)	2011/09/15		87	%	80 - 120
	Method Blank	Total Ammonia (N)	2011/09/15	<0.05		mg/L	
	RPD	Total Ammonia (N)	2011/09/15	1.9		%	20
5180645 SJ1	Matrix Spike	D10-ANTHRACENE (sur.)	2011/09/17		96	%	50 - 130
		D12-BENZO(A)PYRENE (sur.)	2011/09/17		124	%	50 - 130
		D8-ACENAPHTHYLENE (sur.)	2011/09/17		111	%	50 - 130
		TERPHENYL-D14 (sur.)	2011/09/17		109	%	50 - 130
		Acenaphthene	2011/09/17		93	%	50 - 130
		Acenaphthylene	2011/09/17		110	%	50 - 130
		Acridine	2011/09/17		92	%	50 - 130
		Anthracene	2011/09/17		100	%	50 - 130
		Benzo(a)anthracene	2011/09/17		103	%	50 - 130
		Benzo(b&j)fluoranthene	2011/09/17		111	%	50 - 130
		Benzo(k)fluoranthene	2011/09/17		99	%	50 - 130
		Benzo(g,h,i)perylene	2011/09/17		93	%	50 - 130

WESTWATER ENVIRONMENTAL LTD.
Attention: WAYNE BELL
Client Project #: 13.329.3, PETROBANK DAWSON
P.O. #:
Site Location: 04-20-081-15 W5M

Quality Assurance Report (Continued)

Maxxam Job Number: CB186232

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5180645 SJ1	Matrix Spike	Benzo(c)phenanthrene	2011/09/17		101	%	50 - 130
		Benzo(a)pyrene	2011/09/17		108	%	50 - 130
		Benzo[e]pyrene	2011/09/17		96	%	50 - 130
		Chrysene	2011/09/17		109	%	50 - 130
		Dibenz(a,h)anthracene	2011/09/17		94	%	50 - 130
		Fluoranthene	2011/09/17		101	%	50 - 130
		Fluorene	2011/09/17		97	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2011/09/17		98	%	50 - 130
		2-Methylnaphthalene	2011/09/17		93	%	50 - 130
		Naphthalene	2011/09/17		99	%	50 - 130
		Phenanthrene	2011/09/17		102	%	50 - 130
		Perylene	2011/09/17		100	%	50 - 130
		Pyrene	2011/09/17		100	%	50 - 130
		Quinoline	2011/09/17		116	%	50 - 130
	Spiked Blank	D10-ANTHRACENE (sur.)	2011/09/17		101	%	50 - 130
		D12-BENZO(A)PYRENE (sur.)	2011/09/17		128	%	50 - 130
		D8-ACENAPHTHYLENE (sur.)	2011/09/17		107	%	50 - 130
		TERPHENYL-D14 (sur.)	2011/09/17		115	%	50 - 130
		Acenaphthene	2011/09/17		93	%	50 - 130
		Acenaphthylene	2011/09/17		105	%	50 - 130
		Acridine	2011/09/17		95	%	50 - 130
		Anthracene	2011/09/17		102	%	50 - 130
		Benzo(a)anthracene	2011/09/17		104	%	50 - 130
		Benzo(b&j)fluoranthene	2011/09/17		113	%	50 - 130
		Benzo(k)fluoranthene	2011/09/17		108	%	50 - 130
		Benzo(g,h,i)perylene	2011/09/17		91	%	50 - 130
		Benzo(c)phenanthrene	2011/09/17		103	%	50 - 130
		Benzo(a)pyrene	2011/09/17		109	%	50 - 130
		Benzo[e]pyrene	2011/09/17		96	%	50 - 130
		Chrysene	2011/09/17		108	%	50 - 130
		Dibenz(a,h)anthracene	2011/09/17		91	%	50 - 130
		Fluoranthene	2011/09/17		102	%	50 - 130
		Fluorene	2011/09/17		98	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2011/09/17		95	%	50 - 130
		2-Methylnaphthalene	2011/09/17		88	%	50 - 130
		Naphthalene	2011/09/17		85	%	50 - 130
		Phenanthrene	2011/09/17		104	%	50 - 130
		Perylene	2011/09/17		100	%	50 - 130
		Pyrene	2011/09/17		102	%	50 - 130
		Quinoline	2011/09/17		99	%	50 - 130
	Method Blank	D10-ANTHRACENE (sur.)	2011/09/17		98	%	50 - 130
		D12-BENZO(A)PYRENE (sur.)	2011/09/17		119	%	50 - 130
		D8-ACENAPHTHYLENE (sur.)	2011/09/17		108	%	50 - 130
		TERPHENYL-D14 (sur.)	2011/09/17		110	%	50 - 130
		Acenaphthene	2011/09/17	<0.10		ug/L	
		Acenaphthylene	2011/09/17	<0.10		ug/L	
		Acridine	2011/09/17	<0.20		ug/L	
		Anthracene	2011/09/17	<0.010		ug/L	
		Benzo(a)anthracene	2011/09/17	<0.0085		ug/L	
		Benzo(b&j)fluoranthene	2011/09/17	<0.0085		ug/L	
		Benzo(k)fluoranthene	2011/09/17	<0.0085		ug/L	
		Benzo(g,h,i)perylene	2011/09/17	<0.0085		ug/L	
		Benzo(c)phenanthrene	2011/09/17	<0.050		ug/L	
		Benzo(a)pyrene	2011/09/17	<0.0075		ug/L	
		Benzo[e]pyrene	2011/09/17	<0.050		ug/L	

WESTWATER ENVIRONMENTAL LTD.
Attention: WAYNE BELL
Client Project #: 13.329.3, PETROBANK DAWSON
P.O. #:
Site Location: 04-20-081-15 W5M

Quality Assurance Report (Continued)

Maxxam Job Number: CB186232

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5180645 SJ1	Method Blank	Chrysene	2011/09/17	<0.0085		ug/L	
		Dibenz(a,h)anthracene	2011/09/17	<0.0075		ug/L	
		Fluoranthene	2011/09/17	<0.040		ug/L	
		Fluorene	2011/09/17	<0.050		ug/L	
		Indeno(1,2,3-cd)pyrene	2011/09/17	<0.0085		ug/L	
		2-Methylnaphthalene	2011/09/17	<0.10		ug/L	
		Naphthalene	2011/09/17	<0.10		ug/L	
		Phenanthrene	2011/09/17	<0.050		ug/L	
		Perylene	2011/09/17	<0.050		ug/L	
		Pyrene	2011/09/17	<0.020		ug/L	
		Quinoline	2011/09/17	<0.20		ug/L	
	RPD [BN0836-02]	Acenaphthene	2011/09/17	NC		%	40
		Acenaphthylene	2011/09/17	NC		%	40
		Acridine	2011/09/17	NC		%	40
		Anthracene	2011/09/17	NC		%	40
		Benzo(a)anthracene	2011/09/17	NC		%	40
		Benzo(b&j)fluoranthene	2011/09/17	NC		%	40
		Benzo(k)fluoranthene	2011/09/17	NC		%	40
		Benzo(g,h,i)perylene	2011/09/17	NC		%	40
		Benzo(c)phenanthrene	2011/09/17	NC		%	40
		Benzo(a)pyrene	2011/09/17	NC		%	40
		Benzo[e]pyrene	2011/09/17	NC		%	40
		Chrysene	2011/09/17	NC		%	40
		Dibenz(a,h)anthracene	2011/09/17	NC		%	40
		Fluoranthene	2011/09/17	NC		%	40
		Fluorene	2011/09/17	NC		%	40
		Indeno(1,2,3-cd)pyrene	2011/09/17	NC		%	40
		2-Methylnaphthalene	2011/09/17	NC		%	40
		Naphthalene	2011/09/17	NC		%	40
		Phenanthrene	2011/09/17	NC		%	40
		Perylene	2011/09/17	NC		%	40
		Pyrene	2011/09/17	NC		%	40
		Quinoline	2011/09/17	NC		%	40
5180659 OMO	Spiked Blank	Alkalinity (Total as CaCO3)	2011/09/16		98	%	80 - 120
	Method Blank	Alkalinity (PP as CaCO3)	2011/09/16	<0.5		mg/L	
		Alkalinity (Total as CaCO3)	2011/09/16	<0.5		mg/L	
		Bicarbonate (HCO3)	2011/09/16	<0.5		mg/L	
		Carbonate (CO3)	2011/09/16	<0.5		mg/L	
		Hydroxide (OH)	2011/09/16	<0.5		mg/L	
	RPD	Alkalinity (PP as CaCO3)	2011/09/16	NC		%	20
		Alkalinity (Total as CaCO3)	2011/09/16	5.5		%	20
		Bicarbonate (HCO3)	2011/09/16	5.5		%	20
		Carbonate (CO3)	2011/09/16	NC		%	20
		Hydroxide (OH)	2011/09/16	NC		%	20
5180661 OMO	Spiked Blank	Conductivity	2011/09/16		101	%	80 - 120
	Method Blank	Conductivity	2011/09/16	1, RDL=1		uS/cm	
	RPD	Conductivity	2011/09/16	0.2		%	20
5180662 OMO	Spiked Blank	pH	2011/09/16		100	%	97 - 102
	RPD	pH	2011/09/16	1.6		%	5
5182198 DP0	Matrix Spike	Total Barium (Ba)	2011/09/19		95	%	80 - 120
		Total Boron (B)	2011/09/19		102	%	80 - 120
		Total Calcium (Ca)	2011/09/19		NC	%	80 - 120
		Total Iron (Fe)	2011/09/19		NC	%	80 - 120
		Total Lithium (Li)	2011/09/19		98	%	80 - 120
		Total Magnesium (Mg)	2011/09/19		99	%	80 - 120

WESTWATER ENVIRONMENTAL LTD.
Attention: WAYNE BELL
Client Project #: 13.329.3, PETROBANK DAWSON
P.O. #:
Site Location: 04-20-081-15 W5M

Quality Assurance Report (Continued)

Maxxam Job Number: CB186232

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5182198 DP0	Matrix Spike	Total Manganese (Mn)	2011/09/19		96	%	80 - 120
		Total Phosphorus (P)	2011/09/19		83	%	80 - 120
		Total Potassium (K)	2011/09/19		100	%	80 - 120
		Total Silicon (Si)	2011/09/19		NC	%	80 - 120
		Total Sodium (Na)	2011/09/19		96	%	80 - 120
		Total Strontium (Sr)	2011/09/19		96	%	80 - 120
	Spiked Blank	Total Barium (Ba)	2011/09/19		94	%	80 - 120
		Total Boron (B)	2011/09/19		104	%	80 - 120
		Total Calcium (Ca)	2011/09/19		103	%	80 - 120
		Total Iron (Fe)	2011/09/19		101	%	80 - 120
		Total Lithium (Li)	2011/09/19		100	%	80 - 120
		Total Magnesium (Mg)	2011/09/19		99	%	80 - 120
		Total Manganese (Mn)	2011/09/19		97	%	89 - 110
		Total Phosphorus (P)	2011/09/19		84	%	80 - 120
		Total Potassium (K)	2011/09/19		99	%	80 - 120
		Total Silicon (Si)	2011/09/19		108	%	80 - 120
		Total Sodium (Na)	2011/09/19		97	%	85 - 119
		Total Strontium (Sr)	2011/09/19		97	%	80 - 120
	Method Blank	Total Barium (Ba)	2011/09/19	<0.01		mg/L	
		Total Boron (B)	2011/09/19	<0.02		mg/L	
		Total Calcium (Ca)	2011/09/19	<0.3		mg/L	
		Total Iron (Fe)	2011/09/19	<0.06		mg/L	
		Total Lithium (Li)	2011/09/19	<0.02		mg/L	
		Total Magnesium (Mg)	2011/09/19	<0.2		mg/L	
		Total Manganese (Mn)	2011/09/19	<0.004		mg/L	
		Total Phosphorus (P)	2011/09/19	<0.1		mg/L	
		Total Potassium (K)	2011/09/19	<0.3		mg/L	
		Total Silicon (Si)	2011/09/19	<0.1		mg/L	
		Total Sodium (Na)	2011/09/19	<0.5		mg/L	
		Total Strontium (Sr)	2011/09/19	<0.02		mg/L	
		Total Sulphur (S)	2011/09/19	<0.2		mg/L	
	RPD	Total Barium (Ba)	2011/09/19	0.2		%	20
		Total Boron (B)	2011/09/19	NC		%	20
		Total Calcium (Ca)	2011/09/19	0.4		%	20
		Total Iron (Fe)	2011/09/19	2.0		%	20
		Total Lithium (Li)	2011/09/19	NC		%	20
		Total Magnesium (Mg)	2011/09/19	1.1		%	20
		Total Manganese (Mn)	2011/09/19	0.7		%	20
		Total Phosphorus (P)	2011/09/19	NC		%	20
		Total Potassium (K)	2011/09/19	1.5		%	20
		Total Silicon (Si)	2011/09/19	0.08		%	20
		Total Sodium (Na)	2011/09/19	1.1		%	20
		Total Strontium (Sr)	2011/09/19	NC		%	20
		Total Sulphur (S)	2011/09/19	0.9		%	20
5182263 DP0	Matrix Spike	Dissolved Barium (Ba)	2011/09/19		101	%	80 - 120
		Dissolved Boron (B)	2011/09/19		103	%	80 - 120
		Dissolved Calcium (Ca)	2011/09/19		106	%	80 - 120
		Dissolved Iron (Fe)	2011/09/19		103	%	80 - 120
		Dissolved Lithium (Li)	2011/09/19		104	%	80 - 120
		Dissolved Magnesium (Mg)	2011/09/19		107	%	80 - 120
		Dissolved Manganese (Mn)	2011/09/19		102	%	80 - 120
		Dissolved Phosphorus (P)	2011/09/19		91	%	80 - 120
		Dissolved Potassium (K)	2011/09/19		103	%	80 - 120
		Dissolved Silicon (Si)	2011/09/19		89	%	80 - 120
		Dissolved Sodium (Na)	2011/09/19		99	%	80 - 120

WESTWATER ENVIRONMENTAL LTD.
Attention: WAYNE BELL
Client Project #: 13.329.3, PETROBANK DAWSON
P.O. #:
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Quality Assurance Report (Continued)

Maxxam Job Number: CB186232

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5182263 DP0	Matrix Spike	Dissolved Strontium (Sr)	2011/09/19		102	%	80 - 120
	Spiked Blank	Dissolved Barium (Ba)	2011/09/19		101	%	85 - 104
		Dissolved Boron (B)	2011/09/19		102	%	75 - 125
		Dissolved Calcium (Ca)	2011/09/19		108	%	80 - 120
		Dissolved Iron (Fe)	2011/09/19		103	%	80 - 120
		Dissolved Lithium (Li)	2011/09/19		104	%	80 - 116
		Dissolved Magnesium (Mg)	2011/09/19		107	%	91 - 113
		Dissolved Manganese (Mn)	2011/09/19		102	%	89 - 111
		Dissolved Phosphorus (P)	2011/09/19		90	%	89 - 109
		Dissolved Potassium (K)	2011/09/19		104	%	80 - 120
		Dissolved Silicon (Si)	2011/09/19		90	%	80 - 120
		Dissolved Sodium (Na)	2011/09/19		100	%	84 - 110
		Dissolved Strontium (Sr)	2011/09/19		101	%	85 - 106
	Method Blank	Dissolved Barium (Ba)	2011/09/19	<0.01		mg/L	
		Dissolved Boron (B)	2011/09/19	<0.02		mg/L	
		Dissolved Calcium (Ca)	2011/09/19	<0.3		mg/L	
		Dissolved Iron (Fe)	2011/09/19	<0.06		mg/L	
		Dissolved Lithium (Li)	2011/09/19	<0.02		mg/L	
		Dissolved Magnesium (Mg)	2011/09/19	<0.2		mg/L	
		Dissolved Manganese (Mn)	2011/09/19	<0.004		mg/L	
		Dissolved Phosphorus (P)	2011/09/19	<0.1		mg/L	
		Dissolved Potassium (K)	2011/09/19	<0.3		mg/L	
		Dissolved Silicon (Si)	2011/09/19	<0.1		mg/L	
		Dissolved Sodium (Na)	2011/09/19	<0.5		mg/L	
		Dissolved Strontium (Sr)	2011/09/19	<0.02		mg/L	
		Dissolved Sulphur (S)	2011/09/19	<0.2		mg/L	
	RPD	Dissolved Calcium (Ca)	2011/09/19	0.8		%	20
		Dissolved Iron (Fe)	2011/09/19	NC		%	20
		Dissolved Magnesium (Mg)	2011/09/19	0.8		%	20
		Dissolved Manganese (Mn)	2011/09/19	NC		%	20
		Dissolved Potassium (K)	2011/09/19	2.6		%	20
		Dissolved Sodium (Na)	2011/09/19	0.7		%	20
5182520 AM7	Matrix Spike	O-TERPHENYL (sur.)	2011/09/16		86	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2011/09/16		97	%	50 - 130
	Spiked Blank	O-TERPHENYL (sur.)	2011/09/16		91	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2011/09/16		105	%	70 - 130
	Method Blank	O-TERPHENYL (sur.)	2011/09/16		90	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2011/09/16	<0.1		mg/L	
	RPD [BN0836-02]	F2 (C10-C16 Hydrocarbons)	2011/09/17	NC		%	40
5183293 IA0	Matrix Spike	Total Total Kjeldahl Nitrogen	2011/09/16		NC	%	80 - 120
	QC Standard	Total Total Kjeldahl Nitrogen	2011/09/16		120	%	75 - 125
	Spiked Blank	Total Total Kjeldahl Nitrogen	2011/09/16		106	%	80 - 120
	Method Blank	Total Total Kjeldahl Nitrogen	2011/09/16	<0.05		mg/L	
	RPD	Total Total Kjeldahl Nitrogen	2011/09/16	0.8		%	20
5183365 NB0	Matrix Spike	Dissolved Nitrite (N)	2011/09/16		100	%	80 - 120
		Dissolved Nitrate (N)	2011/09/16		NC	%	80 - 120
	Spiked Blank	Dissolved Nitrite (N)	2011/09/16		97	%	80 - 120
		Dissolved Nitrate (N)	2011/09/16		97	%	80 - 120
	Method Blank	Dissolved Nitrite (N)	2011/09/16	<0.003		mg/L	
		Dissolved Nitrate (N)	2011/09/16	<0.003		mg/L	
	RPD	Dissolved Nitrite (N)	2011/09/16	0.6		%	20
		Dissolved Nitrate (N)	2011/09/16	0.4		%	20
5184498 SLI	Matrix Spike	Dissolved Chloride (Cl)	2011/09/17		105	%	80 - 120
	Spiked Blank	Dissolved Chloride (Cl)	2011/09/17		103	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2011/09/17	<1		mg/L	

WESTWATER ENVIRONMENTAL LTD.
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Quality Assurance Report (Continued)

Maxxam Job Number: CB186232

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5184498 SLI	RPD	Dissolved Chloride (Cl)	2011/09/17	NC		%	20
5184500 SLI	Matrix Spike	Dissolved Sulphate (SO4)	2011/09/17		NC	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO4)	2011/09/17		109	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2011/09/17	<1		mg/L	
	RPD	Dissolved Sulphate (SO4)	2011/09/17	4.9		%	20
5185090 RP0	Matrix Spike	Dissolved Fluoride (F)	2011/09/18		NC	%	80 - 120
	Spiked Blank	Dissolved Fluoride (F)	2011/09/18		96	%	86 - 117
	Method Blank	Dissolved Fluoride (F)	2011/09/18	<0.05		mg/L	
	RPD	Dissolved Fluoride (F)	2011/09/18	0.5		%	20
5188078 ZI	Matrix Spike						
	[BN0833-01]	Reactive Silica	2011/09/19		NC	%	80 - 120
	Spiked Blank	Reactive Silica	2011/09/19		100	%	80 - 120
	Method Blank	Reactive Silica	2011/09/19	<0.05		mg/L	
	RPD [BN0833-01]	Reactive Silica	2011/09/19	2.0		%	20
5190613 JMS	Spiked Blank	Total Mercury (Hg)	2011/09/20		99	%	80 - 120
	Method Blank	Total Mercury (Hg)	2011/09/21	<0.002		ug/L	
	RPD	Total Mercury (Hg)	2011/09/20	NC		%	20
5190741 JMS	Spiked Blank	Dissolved Mercury (Hg)	2011/09/20		98	%	80 - 120
	Method Blank	Dissolved Mercury (Hg)	2011/09/20	<0.002		ug/L	
	RPD	Dissolved Mercury (Hg)	2011/09/20	NC		%	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B186232

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Janet Gao, Senior Analyst, Organics Department

LUBA SHYMUSHOVSKA, Senior Analyst, Organic Department

LILI ZHOU, Senior analyst, Inorganic department.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Appendix D

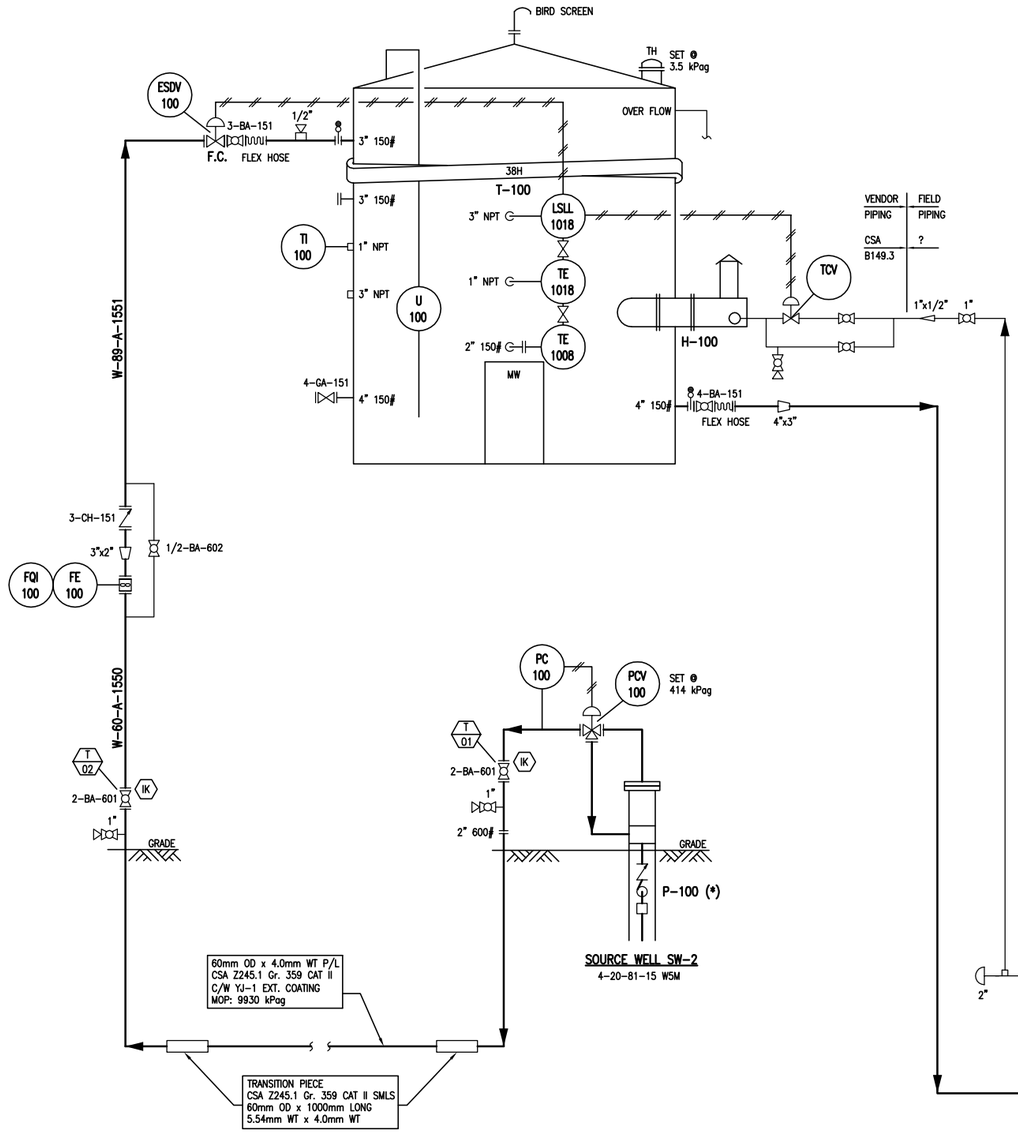
Facility drawings

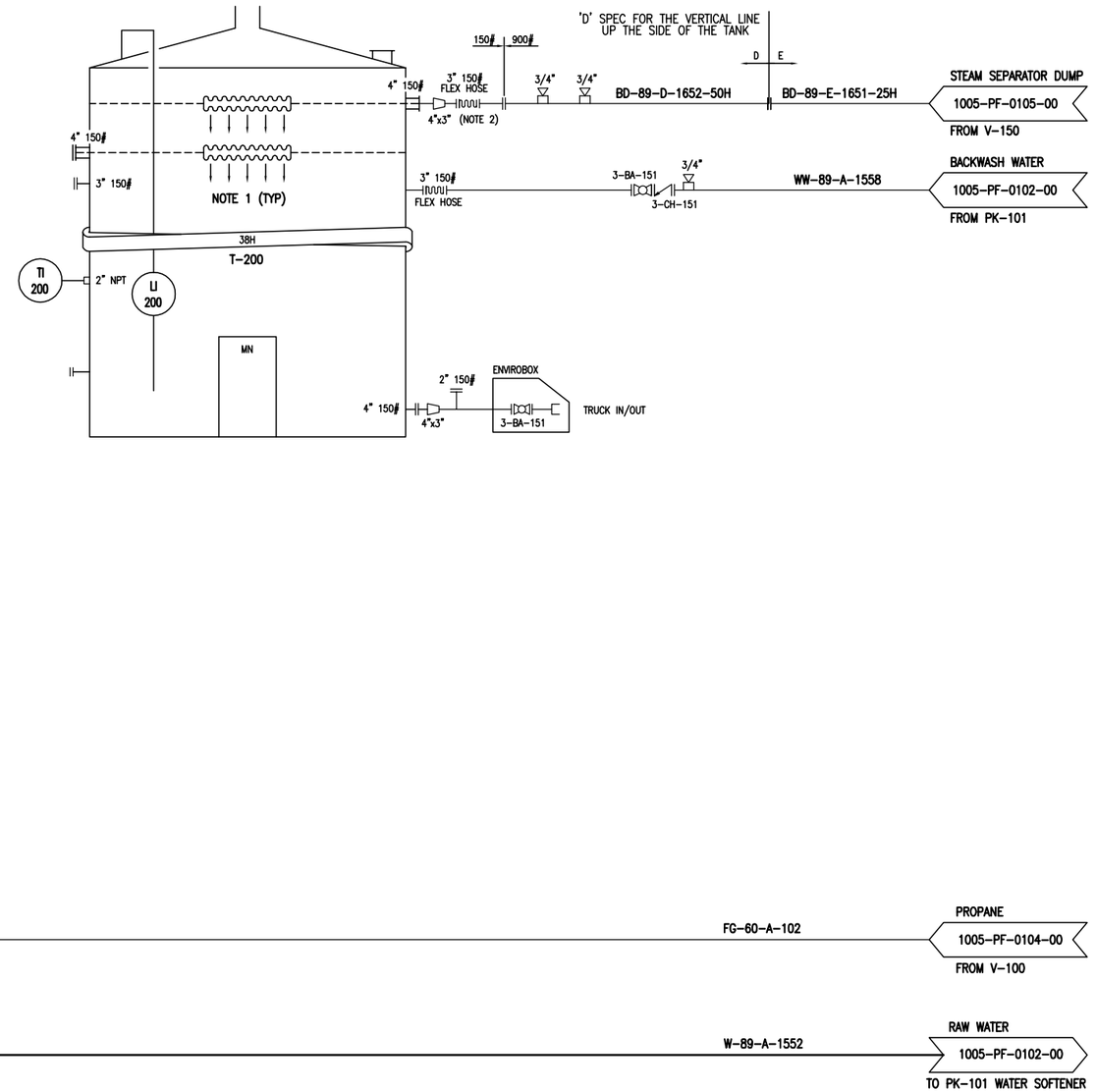
P-100
RAW WATER PUMP
GRUNDFOS MODEL 40550-15
CAPACITY: 11.3 m^3 @ 73 m DIFF. HEAD
MOTOR: 5 HP, 460V/3PH/60Hz

T-100
RAW WATER TANK
SIZE: ____mm O.D. x ____mm H
CAPACITY: 159 m^3
DP: ATM. @ 100°C
INTERNAL COATING: ?
MDMT: -29°C

H-100
FIRE TUBE HEATER

T-200
BLOWDOWN TANK
SIZE: 4724mm O.D. x 7315mm H
CAPACITY: 119 m^3
DP: 3.45 kPa @ 100°C
INTERNAL COATING: DEVOE 253
MDMT: -29°C





1) MINIMUM DIMENSION SPARGER PIPE WITH NPS1 HOLE EVERY 50mm ALONG BOTTOM HALF OF PIPE. FOR A MINIMUM LENGTH OF 600mm.
2) ALL FLEX JOINTS IN THE STEAM BLOWDOWN SERVICE TO BE RATED FOR 343°C @ 862 kPa.

REV	DATE	REVISION DESCRIPTION	BY
0	05-May-14	ISSUED FOR CONSTRUCTION	DM
A	12-Nov-13	ISSUED FOR REVIEW	DM

DRAWING ORIGIN		
DRAFT	DM	12-Nov-13
CHECKER		
ELECTRICAL		
I & C		
P.E.		
P.M.		
CLIENT		

REFERENCE DRAWING TITLE/NO.

NOTES

ENGINEER'S STAMP

CLIENT: PETROBANK
STRENGTH IN OUR RESOURCES

VANGUARD ENGINEERING INC

DRAWING TITLE
DP1 & DP2 DAWSON CSS PROJECT
WELL WATER & BLOWDOWN TANKS
P&ID

PERMIT NO.	P10158
PROJECT NO.	PBG-13005
SCALE	NTS
DRAWING NO.	1005-PF-0101-00
REV	0

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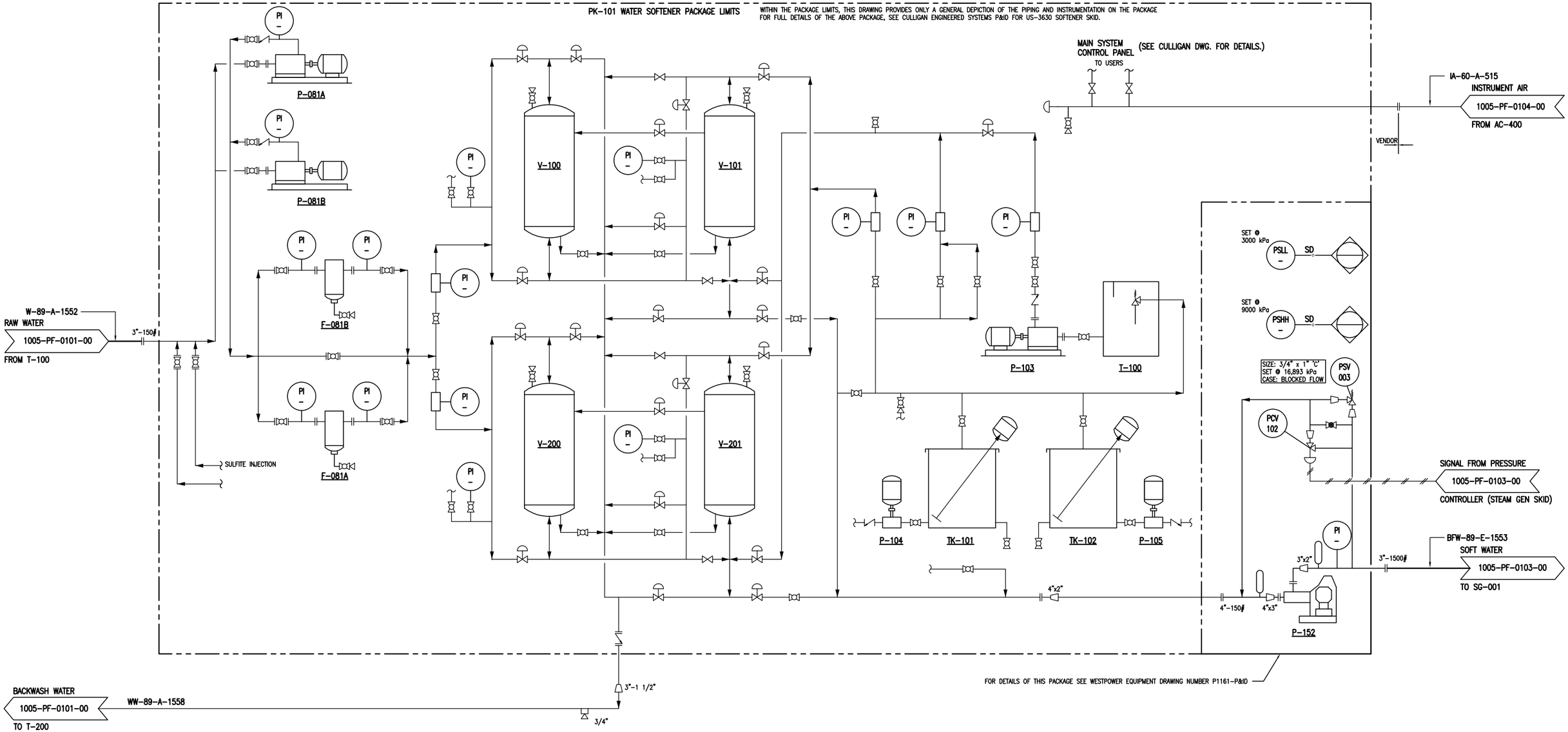
P-081 A/B	F-081 A/B	V-100/200	V-101/201	T-100	T-101	T-102	P-103	P-104	P-105	P-152
SOFTENER FEED PUMP	RAW WATER FILTERS	POLISHERS	PRIMARY WATER VESSELS	BRINE TANK	SULFITE TANK	CAUSTIC/CHELANT TANK	BRINE PUMP	SULFITE INJ. PUMP	CAUSTIC INJECTION PUMP	STEAM GENERATOR FEED WATER PUMP



REV	DATE	REVISION DESCRIPTION	BY
0	05-May-14	ISSUED FOR CONSTRUCTION	DM
B	24-Apr-14	PSV INFORMATION UPDATED	DM
A	12-Nov-13	ISSUED FOR REVIEW	DM

DRAFT	DM	12-Nov-13
CHECKER		
ELECTRICAL		
I & C		
P.E.		
P.M.		
CLIENT		

REFERENCE DRAWING TITLE/NO. | NOTES | ENGINEER'S STAMP | DRAWING ORIGIN

CLIENT: PETROBANK — STRENGTH IN OUR RESOURCES

DRAWING TITLE: DP1 & DP2 DAWSON CSS PROJECT WATER SOFTENING PACKAGE P&ID

VANGUARD ENGINEERING INC

PERMIT NO.	P10158
PROJECT NO.	PBG-13005
SCALE	NTS
DRAWING NO.	1005-PF-0102-00
REV	0

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SG-001
STEAM GENERATOR
ENERGY: 7.3 MW (25 MM BTU/hr)

F
WATER RATE
BURNER RATE
PRESSURE CONTROLLER
HI & LO
13mm TUBING
1"
INSTRUMENT AIR
1005-PF-0104-00
FROM AC-400
IA-33-A-516
1" PIPE
1" 13mm TUBING
PRESSURE CONTROL SIGNAL
1005-PF-0102-00
TO P-152 BYPASS VALVE
BFW-89-E-1553
SOFT WATER
1005-PF-0102-00
FROM PK-101
REFER TO P&ID E083219-P-PID-001

F HI STACK TEMP
E HI TUBE TEMP
HI BURNER THROAT TEMP D
HI STEAM TEMP C
FLAME SAFEGRD REPLAY A

PI TI PI TI
CONVECTIVE SECTION
FUEL GAS SAMPLE
FLUE GAS RECIRCULATION 12
WATER VALVE
D IC A
COMBUSTION AIR
TIT 3-2101
C DC TI PI
DC F
FROM STEAM GENERATOR FEEDWATER PUMP SUCTION
SUMP TO DRAIN
RETURN TO SUCTION ON SOFTENER CHANGE PUMPS (1/2" TUBING)
FR PI PS
VENT
PI PI PI PI
S S S S

SIZE: 1 1/2" 2500# x 2 1/2" 300# "E"
SET @ 14,000 kPa
CASE: BLOCKED FLOW
PSV 001
2 ½"x3"
2"x1 ½"
SIZE: 1 1/2" 2500# x 2 1/2" 300# "E"
SET @ 16,007 kPa
CASE: BLOCKED FLOW
PSV 002
2 ½"x4"
2"x1 ½"
BUILDING ROOF
DRIP PAN
DRAIN TO GRADE @ SAFE LOCATION
DRAIN TO GRADE @ SAFE LOCATION
2"
HEATER
HOSE
1"
50 H
50 H
2"
2"x1 ½"
2"x1 ½"
1"x¾"
REGULATOR
1"x¾"
1 1/2" 2500#
1 1/2" 2000#
3/4" IPV
I/S FIELD RUN
O/S
1"
1"
PROPANE
1005-PF-0104-00
FROM V-100
FG-60-A-101
¾" LPD
ON SKID
OFF SKID
FG-60-A-103
¾"
2"
V-900G
POWER GENERATOR
STEAM/WATER SUPPLY
1005-PF-0105-00
TO STEAM SEPARATOR (V-150)
3" 3" 50 M S-89-E-1554-25H
3" 3" 25 H
2"x1" 4"x1"
3/4" GA
3/4" CL
1"-GA-101 1"-GA-201
1"-GA-201 1"-GA-301
S-89-E-1653-25H
STEAM BLOWDOWN
1005-PF-0105-00
TO T-200

SG-001 STEAM GENERATOR PACKAGE LIMITS
WITHIN THE PACKAGE LIMITS, THIS DRAWING PROVIDES ONLY A GENERAL DEPICTION OF THE PIPING AND INSTRUMENTATION ON THE PACKAGE. FOR DETAILS OF THIS PACKAGE, SEE PROCESS COMBUSTION SYSTEM DRAWING 7804-M1 AND TES DRAWING E083219P-PID-001

REV	DATE	REVISION DESCRIPTION	BY
0	05-May-14	ISSUED FOR CONSTRUCTION	DM
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DRAWING ORIGIN		
DRAFT	DM	12-Nov-13
CHECKER		
ELECTRICAL		
I & C		
P.E.		
P.M.		
CLIENT		

REFERENCE DRAWING TITLE/NO. | NOTES | ENGINEER'S STAMP

CLIENT: PETROBANK — STRENGTH IN OUR RESOURCES

DRAWING TITLE: DP1 & DP2 DAWSON CSS PROJECT
STEAM GENERATOR
P&ID

VANGUARD ENGINEERING INC

PERMIT NO.	P10158
PROJECT NO.	PBG-13005
SCALE	NTS
DRAWING NO.	1005-PF-0103-00
REV	0

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AC-400
AIR COMPRESSOR
TANK SIZE: TBD
TANK DESIGN: TBD
CAPACITY: TBD
MOTOR: TBD

P-110
PUMP

V-100
PROPANE STORAGE TANK
SIZE: 2438mm OD x 12200mm S/S
DESIGN: 1724 kPag @ -29°F / 38°C
CAPACITY: 68 m³ (18000 GAL)

PROPANE TANK SKID LIMITS

PROPANE
1005-PF-0101-00
TO H-100 FIRETUBE
FG-60-A-102

PROPANE
1005-PF-0101-00
TO SG-001
FG-60-A-101

PROPANE
TO POWER GENERATOR
FG-60-A-103

2-BA-151
2-BA-151

SET @ 241 kPag (35 PSIG)
PRV

VAPORIZER (1)
VAPORIZER (2)
VAPORIZER (3)

4"
4"
PSV
0
3/4"
PI
1/2"
LG
TI
V-100
3/4"

PI
1/2"
P-110

PROPANE LOADING
VAPOR EQUALIZING LINE

AIR INTAKE
OUTSIDE

INSTRUMENT AIR
1005-PF-0102-00
TO PK-101
IA-60-A-515

INSTRUMENT AIR
1005-PF-0103-00
TO SG-001
IA-33-A-516

INSTRUMENT AIR
1005-PF-0105-00
TO V-150
IA-33-A-517

AC-400

WITHIN THE PACKAGE LIMITS, THIS DRAWING PROVIDES ONLY A GENERAL DEPICTION OF THE PIPING AND INSTRUMENTATION ON THE PACKAGE. FOR FULL DETAILS OF THIS PACKAGE, SEE SUPERIOR PROPANE DRAWING

REV	DATE	REVISION DESCRIPTION	BY
0	05-May-14	ISSUED FOR CONSTRUCTION	DM
A	12-Nov-13	ISSUED FOR REVIEW	DM

DRAFT	DM	12-Nov-13
CHECKER		
ELECTRICAL		
I & C		
P.E.		
P.M.		
CLIENT		

REFERENCE DRAWING TITLE/NO. | NOTES | ENGINEER'S STAMP | DRAWING ORIGIN

CLIENT: PETROBANK

VANGUARD ENGINEERING INC

DRAWING TITLE: DP1 & DP2 DAWSON CSS PROJECT PROPANE PACKAGE & AIR COMPRESSOR P&ID

PERMIT NO. P10158
PROJECT NO. PBG-13005
SCALE NTS
DRAWING NO. 1005-PF-0104-00
REV 0

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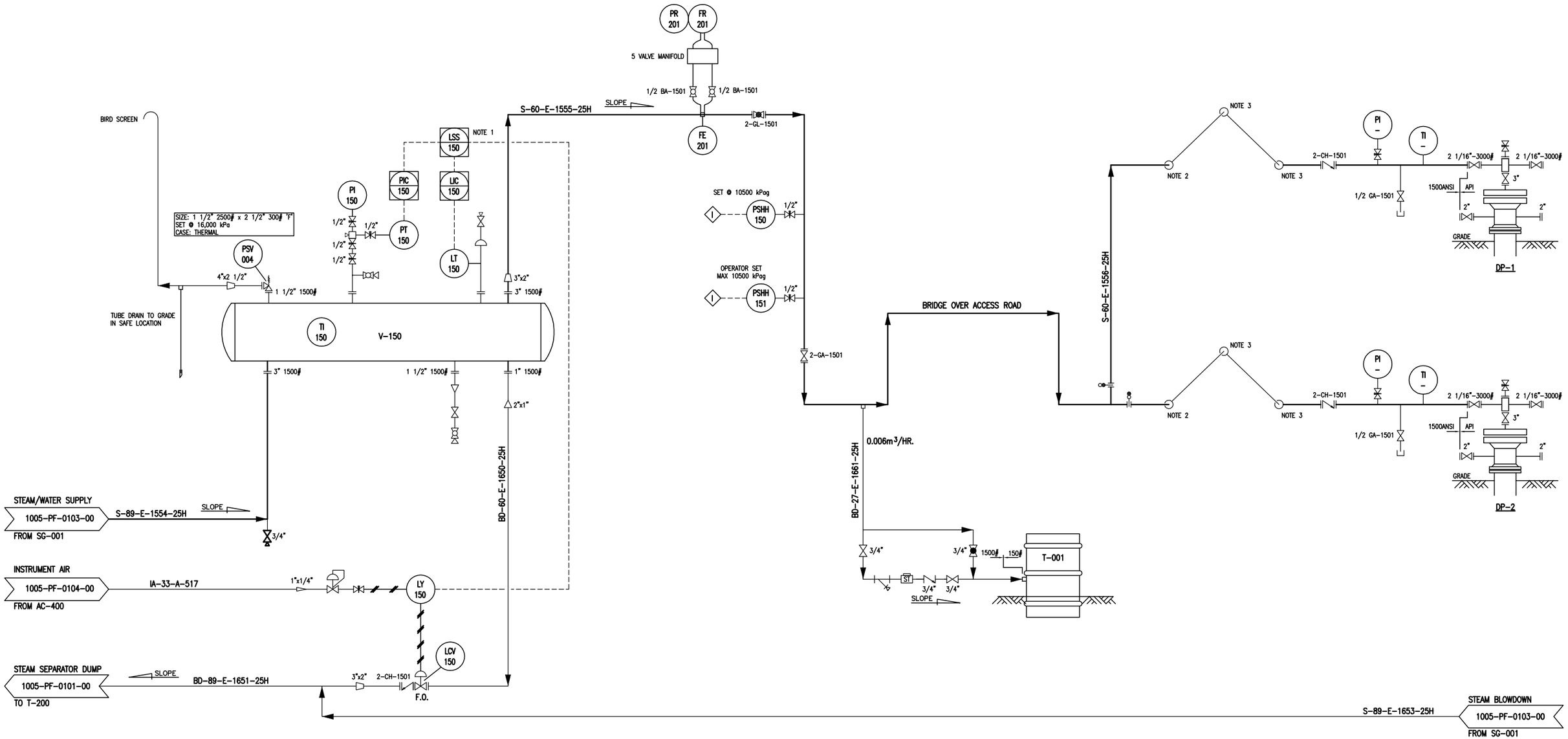
V-150
STEAM SEPARATOR
SIZE: 508mm x 1524mm
DESIGN: 17235 kPa @ 353°C
CA: 1.6mm

T-001
BLOWDOWN CONTAINER
SIZE: 610Øx 864 Ht.



1) LSS-150 SELECTS THE LOWER OF THE SIGNALS FROM PIC-150 AND LIC-150 AND TRANSMITS THAT SIGNAL TO LY-150.
2) SWIVEL JOINT (BLUESKY PROCESS SOLUTIONS ROTABALL OR EQUAL) TO BE PROVIDED FOR FLEXIBILITY AS SHOWN.
3) SWIVEL JOINT (BLUESKY PROCESS SOLUTIONS FLEXBALL OR EQUAL) TO BE PROVIDED FOR FLEXIBILITY AS SHOWN.

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REFERENCE DRAWING TITLE/NO.

NOTES

ENGINEER'S STAMP

DRAWING ORIGIN		
DRAFT	DM	12-Nov-13
CHECKER		
ELECTRICAL		
I & C		
P.E.		
P.M.		
CLIENT		

CLIENT: PETROBANK — STRENGTH IN OUR RESOURCES

VANGUARD ENGINEERING INC

DRAWING TITLE
DP1 & DP2 DAWSON CSS PROJECT
STEAM SEPARATOR
P&ID

PERMIT NO.	P10158
PROJECT NO.	PBG-13005
SCALE	NTS
DRAWING NO.	1005-PF-0105-00
REV	0

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VALVES

- GATE
- GLOBE
- BALL
- NEEDLE
- BUTTERFLY
- SWING CHECK
- WAFER CHECK
- PISTON CHECK
- STOP CHECK
- VELOCITY CHECK
- BALL CHECK
- PLUGAROO
- PIG VALVE
- DIAPHRAGM
- THREE-WAY
- FOUR-WAY
- PLUG
- PLUG VALVE HYPERSEAL
- 3-WAY PLUG
- 4-WAY PLUG
- ANGLE
- ANGLE GLOBE
- CHOKE VALVE
- PRESSURE RELIEF/ SAFETY VALVE (PSV)
- PRESSURE VACUUM RELIEF VALVE (PVRV)

INSTRUMENT SYMBOLS

	CONTROL ROOM PANEL	FIELD MOUNTED	LOCAL PANEL
DISCRETE INSTRUMENTS	SD *		
SHARED DISPLAY SHARED CONTROL eg. DCS = DISTRIBUTED CONTROL SYSTEM			
COMPUTER FUNCTION eg. FLOW COMPUTER			
PROGRAMMABLE LOGIC CONTROL (PLC)			

*ABBREVIATION SPECIFIES INSTRUMENT OR FUNCTION LOCATION.
eg. IP#1 (INSTRUMENT PANEL #1), SD (SHUTDOWN)

DASHED LINE — INDICATES INSTRUMENT LOCATION BEHIND THE PANEL (TYP)

- STATUS LIGHT SHOW COLOUR INSIDE SYMBOL
- I — SYSTEM LOGIC
- R — MANUAL RESET
- E — EMERGENCY SHUTDOWN LOGIC
- P — PURGE OR FLUSHING DEVICE
- CD — CATHODIC PROTECTION
- CC — CORROSION COUPON
- TW — THERMOWELL
- TRANSMITTER

CONTROL VALVES

FC = FAIL CLOSED
FO = FAIL OPEN

- FO — DIAPHRAGM CONTROL VALVE
- HAND OPERATED CONTROL VALVE
- M, E — MOTOR (A = AIR, E = ELECTRIC, H = HYDRAULIC, E/H = ELECTROHYDRAULIC)
- HYDR/PNEUMATIC PISTON OPERATED
- DIAPHRAGM OPERATOR w/HAND WHEEL
- THREE WAY DIAPHRAGM CONTROL VALVE
- S — SOLENOID VALVE
- FLOW — BACK PRESSURE REGULATOR,(INTERNAL) SELF-CONTAINED (BPV)
- FLOW — PRESSURE REDUCING REGULATOR, (INTERNAL) SELF-CONTAINED (PRV)
- FLOW — BACK PRESSURE REGULATOR,(EXTERNAL) EXTERNAL

FLOW INSTRUMENT SYMBOLS

- FE — ORIFICE PLATE c/w ORIFICE FLANGES
- FQI — POSITIVE DISPLACEMENT TYPE FLOW TOTALIZER
- FI — SIGHT GLASS FLOW MONITOR
- FI — FLOW INDICATOR ROTOMETER TYPE
- FE — TURBINE OR PROPELLER TYPE PRIMARY ELEMENT
- FE — ANNUBAR OR PITOT TUBE
- FE — ORIFICE PLATE IN QUICK CHANGE FITTINGS
- FE — VENTURI TUBE OR FLOW NOZZLE
- RO — FLOW RESTRICTION ORIFICE
- FE — CALIBRATED METER RUN

MISCELLANEOUS SYMBOLS

- IK — INSULATING KIT
- FLANGED CONNECTION
- BLIND FLANGE
- WELD CAP
- HOSE CONNECTION
- SCREWED OR SOCKET WELD CAP
- SCREWED OR SOCKET WELD PLUG
- FLEXIBLE COUPLING
- EXPANSION JOINT
- Y PATTERN LINE STRAINER
- LINE REDUCER
- SPECTACLE BLIND — LINE CLOSED
- SPECTACLE BLIND — LINE OPEN
- SLIP/BLIND
- SPACER
- FLOW — STRAINER (conical, temporary or start-up)
- IN LINE FILTER (STRAINER)
- T — STEAM TRAP
- FLAME ARRESTER
- IN LINE MIXER
- AGITATOR (motor driven) (see driver code)
- FLEXIBLE HOSE
- VIBRATION DAMPENER
- EJECTOR
- RELIEF TO ATMOSPHERE
- OPEN DRAIN
- CLOSED DRAIN
- STRAIGHTENING VANES
- RUPTURE DISC — PRESSURE
- RUPTURE DISC — VACUUM

PUMP SYMBOLS

- SUMP PUMP (see driver code)
- IN-LINE PUMP (see driver code)
- ROTARY PUMP
- SCREW PUMP
- CENTRIFUGAL PUMP
- RECIPROCATING PUMP (see driver code)

DRIVER CODE:

M – ELECTRIC MOTOR	G – GENERATOR
ST– STEAM TURBINE	E – ENGINE
GT– GAS TURBINE	EX– EXPANDER

REFERENCE SYSTEMS

- SP * — SPECIAL ITEM (add item no. from special material list)
- T * — TIE-IN (add number)
- TO CM-101 — ORIGIN OR DESTINATION OF LINE
- 150# "A" / 300# "C" — SPECIFICATION BREAK
- ANSI B31.3 / CSA Z662 — CODE BREAK

INSULATION CODE

H – INSULATE HOT (HEAT CONSERVATION)
C – INSULATE COLD (COLD CONSERVATION)
PP – PERSONNEL PROTECTION

- 50H — THICKNESS (mm) PIPE INSULATION
- 50H-ET — THICKNESS (mm) TYPE OF TRACING PIPE INSULATION
- ST — PIPE INSULATION AND HEAT TRACING

ST – INSULATE & STEAM TRACE
GT – INSULATE & GLYCOL TRACE
ET – INSULATE & ELECTRIC TRACE

- STEAM JACKETED

LINE CODE

- PRIMARY PROCESS PIPING
- SECONDARY PROCESS PIPING
- UTILITY PIPING
- PACKAGE UNIT OR SKID LIMITS
- EXISTING OR FUTURE EQUIP. & LINES (USE A TEXT QUALIFIER FOR CLARITY)

INSTRUMENT LINE SYMBOLS

- PNEUMATIC SIGNAL
- ELECTRIC SIGNAL
- CAPILLARY TUBING
- HYDRAULIC SIGNAL
- ANALOG SIGNAL
- RADIO SIGNAL
- INSTRUMENT PROCESS LINES
- LOGIC SIGNAL

INSTRUMENT IDENTIFICATION

VARIABLE	PRIMARY ELEMENT	INDICATOR	RECORDER	CONTROLLER			TRANS-MITTER	ALARM-SHUTDOWN		CONTROL VALVE OR REGULATOR	SELF-ACTIVATED VALVE	RELAY OR CONVERTER
				BLIND	INDICATING	RECORDING		SWITCH	ALARM			
ANALYSIS	AE	AI	AR	AC	AIC	ARC	AT	AS( )	AA( )	AV		AY
BURNER FLAME	BE	BI	BR	BC			BT	BS( )	BA( )	BV		BY
CONDUCTIVITY	CE	CI	CR		CIC	CRC	CT	CS( )	CA( )	CV		CY
DENSITY	DE	DI	DR		DIC	DRC	DT	DS( )	DA( )	DV		DY
VOLTAGE (EMF)	EE	EI	ER	EC	EIC	ERC	ET	ES( )	EA( )	EV		EY
FLOW	FE	FI	FR	FC	FIC	FRC	FT	FS( )	FA( )	FV	FCV	FY
FLOW RATIO		FFI	FFR	FFC	FFIC	FFRC		FFS( )	FFA( )	FFV		
GAGING (DIMENSIONAL)	GE	GI	GR	GC	GIC	GRC	GT	GS( )	GA( )	GV		
HAND				HC	HIC			HS( )		HV	HCV	
CURRENT	IE	II	IR	IC	IIC	IRC	IT	IS( )	IA( )			IY
POWER	JE	JI	JR	JC	JIC	JRC	JT	JS( )	JA( )			JY
TIME		KI	KR	KC	KIC	KRC	KT	KS( )	KA( )			KY
LEVEL	LE	LI	LR	LC	LIC	LRC	LT	LS( )	LA( )	LV	LCV	LY
MOISTURE	ME	MI	MR	MC	MIC	MRC	MT	MS( )	MA( )	MV		MY
USER'S CHOICE	NE											
TORQUE	OE	OI	OR	OC	OIC	ORC	OT	OS( )	OA( )	OV		OY
PRESSURE	PE	PI	PR	PC	PIC	PRC	PT	PS( )	PA( )	PV	PCV	PY
PRESSURE DIFFERENTIAL	PDE	PDI	PDR	PDC	PDIC	PDRC	PDT	PDS( )	PDA( )	PDV	PDCV	
QUANTITY OR EVENT		QI	QR	QC	QIC	QRC	QT	QS( )	QA( )	QV		QY
RADIATION	RE	RI	RR	RC	RIC	RRC	RT	RS( )	RA( )			RY
SPEED OR FREQUENCY		SI	SR	SC	SIC	SRC	ST	SS( )	SA( )			SY
TEMPERATURE	TE	TI	TR	TC	TIC	TRC	TT	TS( )	TA( )	TV	TCV	TY
TEMPERATURE DIFFERENTIAL		TDI	TDR	TDC	TDIC	TDRC	TDT	TDS( )	TDA( )	TDV	TDCV	
MULTI-VARIABLE		UI	UR	UC	UIC	URC				UV		UY
VISCOSITY OR VIBRATION	VE	VI	VR	VC	VIC	VRC	VT	VS( )	VA( )	VV		VY
WEIGHT	WE	WI	WR	WC	WIC	WRC	WT	WS( )	WA( )	WV		WY
UNCLASSIFIED	XE	XI	XR	XC	XIC	XRC	XT	XS( )	XA( )	XV		XY
USER'S CHOICE												YY
POSITION	ZE	ZI	ZR	ZC	ZIC	ZRC	ZT	ZS( )	ZA( )			ZY

H:HIGH, HH:EXTRA HIGH, L:LOW, LL:EXTRA LOW, HL:HIGH & LOW, C:CLOSED, O:OPENED

LINE COMMODITY CODES

AIR
CA – COMBUSTION AIR
IA – INSTRUMENT AIR
UA – INJECTION AIR
SA – START AIR

WATER
BFW – BOILER FEED WATER
CW – COOLING WATER
DW – DRINKING WATER
FW – FIRE WATER
JW – JACKET WATER
RW – RAW WATER (WELL/RIVER WATER)
W – TREATED WATER (DEMINERALIZED)

PROCESS
(*)A – ACID [(*) MODIFIER FOR ACID TYPE]
AL – AMINE LEAN
AR – AMINE RICH
GS – GLYCOL SUPPLY
GR – GLYCOL RETURN
LPG – LIQUID PETROLEUM GAS
P – INCOMING STREAM (GAS,EMULSION,OIL)
SG – PROCESS HYDROCARBON GAS
PO – PROCESS HYDROCARBON OIL
OW – OIL/WATER
R – REFRIGERANT (PROPANE ETC.)
SU – SULPHUR

FUEL
FG – FUEL GAS
FO – FUEL OIL
PFG – PROPANE FUEL GAS
PU – PURGE GAS

STEAM
LS – LOW PRESSURE
MS – MEDIUM PRESSURE
S – HIGH PRESSURE

STEAM CONDENSATE
LC – LOW PRESSURE
MC – MEDIUM PRESSURE
HC – HIGH PRESSURE

DRAINS
D – DRAIN
HDR – HIGH PRESSURE DRAIN
LDR – LOW PRESSURE DRAIN

FLARES
R – HIGH PRESSURE FLARE
LF – LOW PRESSURE FLARE
RF – RELIEF FLARE
V – VENT

MISCELLANEOUS
BG – BLANKET GAS
EX – EXHAUST GAS
H – HYDROGEN
HMS – HEAT MEDIUM SUPPLY
HMR – HEAT MEDIUM RETURN
LO – LUBE OIL
N – NITROGEN

ABBREVIATIONS

AC – AIR CLOSE
AO – AIR OPEN
AS – AIR SUPPLY
BD – BLOW DOWN
CC – CORROSION COUPON
CP – CATHODIC PROTECTION
CSC – CAR SEAL CLOSED
CSO – CAR SEAL OPEN
CHO – CHAIN OPERATED
CO – CLEAN OUT
DC – DRAIN CONNECTION
ESD – EMERGENCY SHUTDOWN
ESDV – EMERGENCY SHUTDOWN VALVE
FA – FLAME ARRESTOR
FC – FAIL CLOSED
FO – FAIL OPEN
FP – FULL PORT
GO – GEAR OPERATED
I/A – INSTRUMENT AIR
I/G – INSTRUMENT GAS
LEL – LOWER EXPLOSIVE LIMIT
NC – NORMALLY CLOSED
NO – NORMALLY OPEN
PC – PURGE CONNECTION
PO – PUMP OUT
PSIG – POUNDS PER SQUARE INCH GAUGE
SC – SAMPLE CONNECTION
SD – SHUTDOWN (INDIVIDUAL EQUIPMENT)
SP – SET POINT
S/S – SEAM TO SEAM
TL – TANGENT LINE
TP – TRANSITION PIECE
T/T – TANGENT TO TANGENT
FOT– FLAT ON TOP
FOB– FLAT ON BOTTOM
OSB – OUTSIDE BUILDING
S – STRAIGHT THROUGH (DIAPHRAGM VALVE)
W – WEIR (DIAPHRAGM VALVE)

LINE IDENTIFICATION

P–89–A–101–25H

- INSULATION THICKNESS AND TYPE
- LINE NUMBER
- SPECIFICATION LETTER (SEE PLANT SPEC)
- LINE SIZE (O.D.mm)
- COMMODITY ABBREVIATION

001 – 199 PROCESS
200 – 299 DRAIN
300 – 399 FUEL
400 – 499 FLARE
500 – 599 AIR
600 – 699 HEAT MEDIUM
OTHER GROUPS AS REQUIRED

NOTES:

1) – ALL TEMPERATURE INSTRUMENTS TO BE PROVIDED WITH THERMOWELL.
2) – ALL PRESSURE INSTRUMENTS TO BE PROVIDED WITH BLOCK & BLEED VALVES.
3) – ALL CONTROLLERS TO BE PROVIDED WITH INDIVIDUAL SUPPLY GAS/AIR REGULATORS COMPLETE WITH ISOLATION VALVES.

REFERENCE DRAWING TITLE/No.

NOTES

REV	DATE	REVISION DESCRIPTION	BY
0	10–APR–14	ISSUED FOR CONSTRUCTION	DM
B	14–MAR–14	ISSUED FOR APPROVAL	DM
A	27–JAN–14	ISSUED FOR REVIEW	DM

ENGINEER'S STAMP

DRAWING ORIGIN

BY	DM	27–JAN–14
CHECK		
ELEC.		
I & C		
PM		
PE	RM	27–JAN–14
CLIENT		

CLIENT: PETROBANK — STRENGTH IN OUR RESOURCES

DRAWING TITLE
DAWSON CSS OIL BATTERY 12–20
LSD 12–20–81–15 W5M
SYMBOLOGY CHART
P&ID

VANGUARD ENGINEERING INC

PERMIT No.	P10158
PROJECT No.	PBG–13005
SCALE.	NTS
DRAWING No.	1005–PF–0000–01
REV	0

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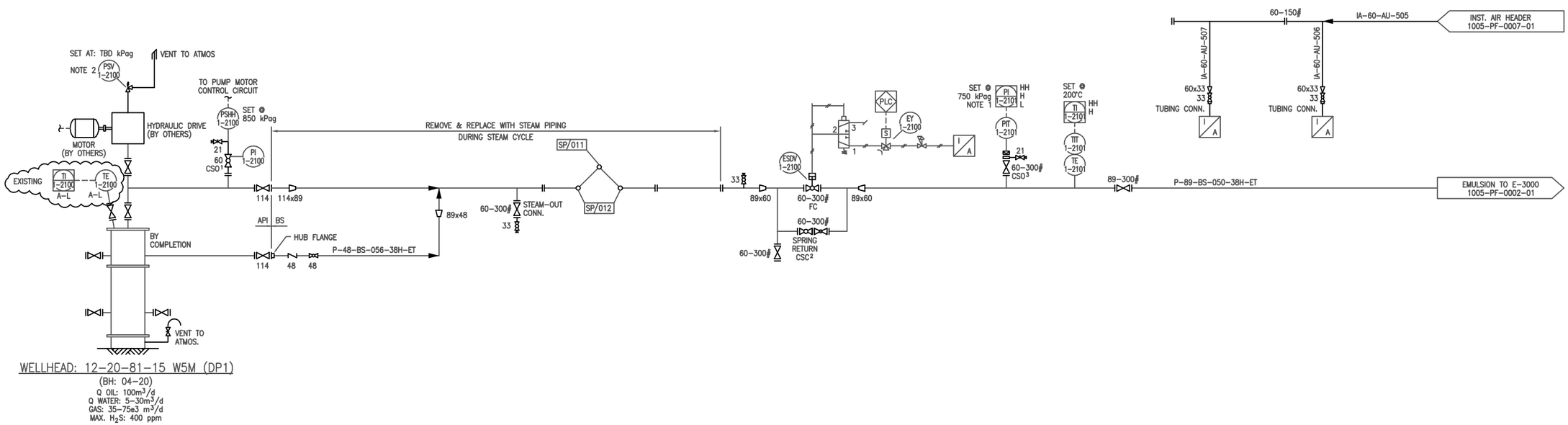

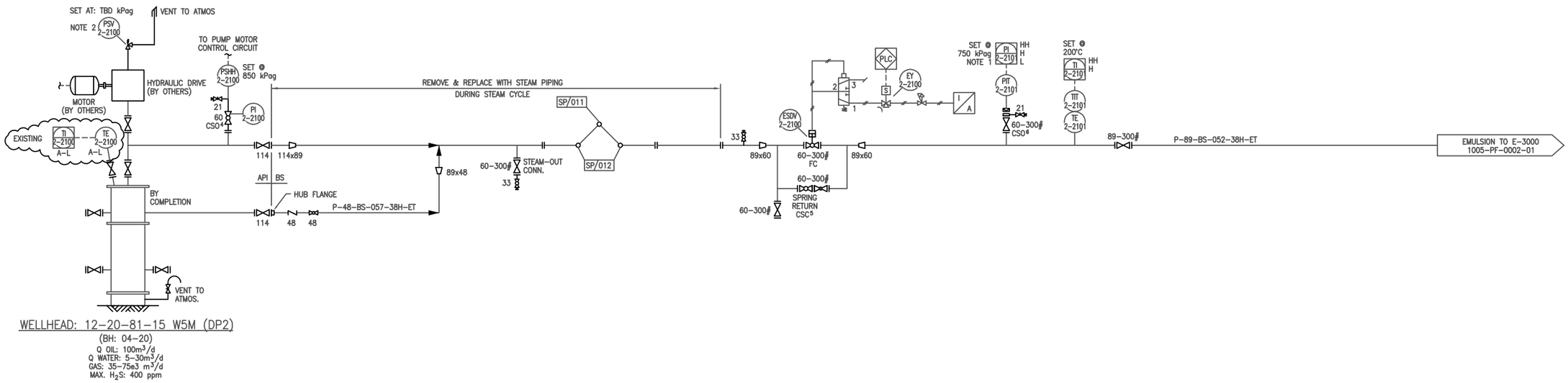

NOTES

1. MAXIMUM PRESSURE OF 750 kPag TO ENSURE A MAXIMUM H_2S PARTIAL PRESSURE OF 0.30 kPag IN THE SPIRAL EXCHANGER (E-3000), BASED ON 400 ppm H_2S.
2. PSV MUST BE ADDED TO DOWNHOLE PUMP HYDRAULIC DRIVE TO LIMIT DOWNHOLE PUMP SURFACE PRESSURE TO <300 ANSI.

REV	DATE	REVISION DESCRIPTION	BY
0	10-APR-14	ISSUED FOR CONSTRUCTION	DM
B	14-MAR-14	ISSUED FOR APPROVAL	DM
A	27-JAN-14	ISSUED FOR REVIEW	DM

ENGINEER'S STAMP

DRAWING ORIGIN

BY	DM	27-JAN-14
CHECK		
ELEC.		
I & C		
PM		
PE	RM	27-JAN-14
CLIENT		

REFERENCE DRAWING TITLE/No.

CLIENT: PETROBANK — STRENGTH IN OUR RESOURCES

DRAWING TITLE
DAWSON CSS OIL BATTERY 12-20
LSD 12-20-81-15 W5M
12-20 PRODUCTION WELLHEADS
P&ID

VANGUARD ENGINEERING INC

PERMIT No.	P10158
PROJECT No.	PBG-13005
SCALE.	NTS
DRAWING No.	1005-PF-0001-01
REV	0

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E-3000
EMULSION EXCHANGER
MFR/MODEL: GEA-M145-120
DUTY: 1.8MM BTU/HR
PROCESS DP/DT: 4137 kPag AT 250°C
GLYCOL DP/DT: 1206 kPag AT 250°C
VENDOR: GEA

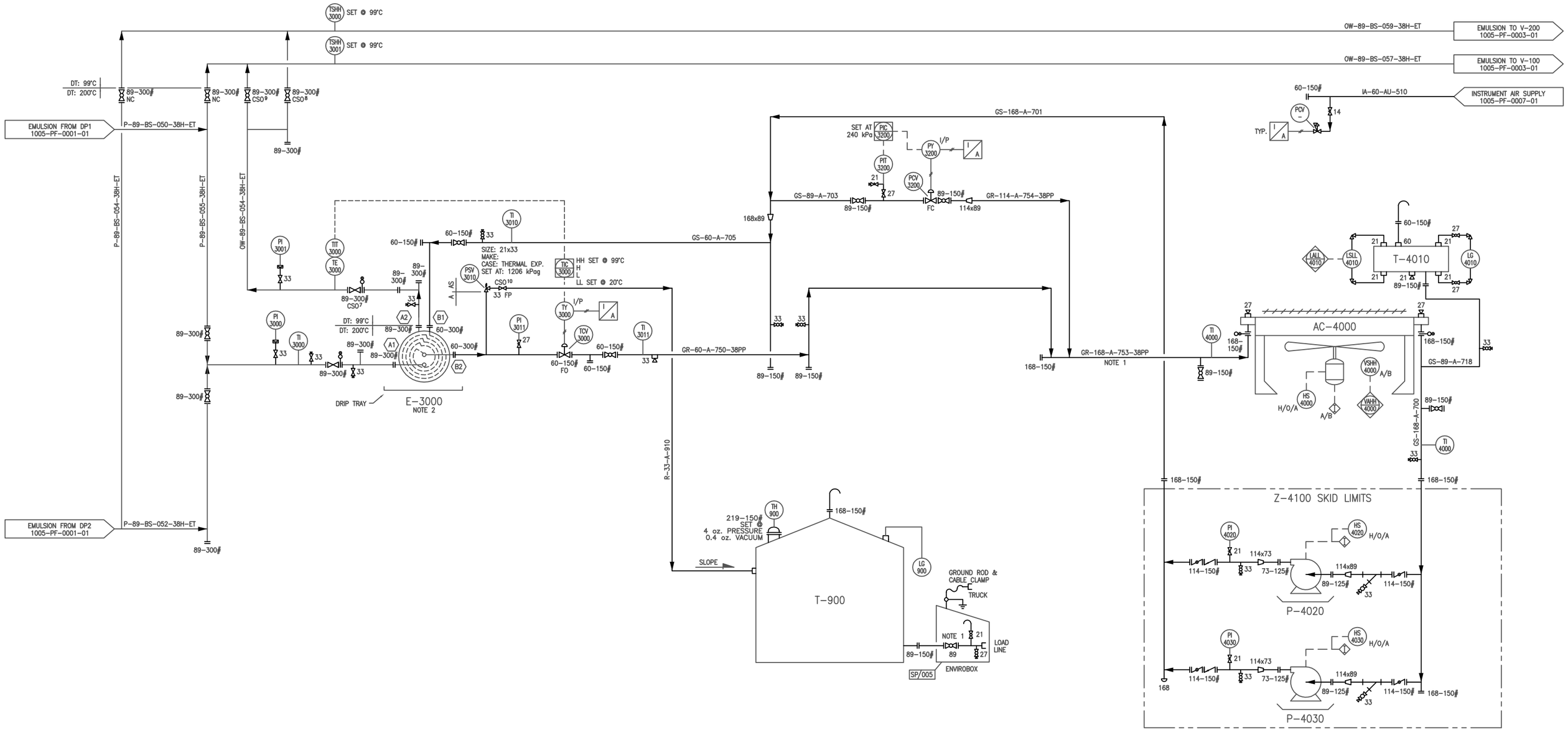
T-900
GLYCOL POP TANK
CAP: 100 BBL
SIZE: 2819mm DIA x 2438mm HIGH
VENDOR: TANKSTORE LTD

Z-4100
GLYCOL PUMP SKID

AC-4000
AERIAL COOLER
MFR/MODEL: AIR-X 132-28
DUTY: 10MM BTU/HR
DP/DT: 97 kPa AT 149/-34°C
MOTOR: (2) 40HP, 400/3/60 TEFC
VENDOR: CONCEPT COMPRESSION

P-4020/4030
GLYCOL CIRCULATION PUMPS
MFR/MODEL: SUMMIT CC&FM 2.5x3-10A
CAPACITY: 350 US GPM (80m3/HR)
DESIGN DIFF: 75.5 ft
MOTOR: 15hp 460/3/60 TEFC
VENDOR: CONCEPT COMPRESSION

T-4010
GLYCOL EXPANSION TANK
CAP: 200 USG
SIZE: 457mm DIA x 7620mm LONG
VENDOR:



NOTES

1. AIR COOLER INLET PIPING ON SKID PORTION TO BE INSULATED FOR PERSONNEL PROTECTION BY FIELD CONTRACTOR.
2. SPIRAL EXCHANGER TO BE WRAPPED WITH INSULATION BLANKET.

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REFERENCE DRAWING TITLE/No.

ENGINEER'S STAMP

DRAWING ORIGIN

BY	DM	27-JAN-14
CHECK		
ELEC.		
I & C		
PM		
PE	RM	27-JAN-14
CLIENT		

CLIENT: PETROBANK — STRENGTH IN OUR RESOURCES

DRAWING TITLE
DAWSON CSS OIL BATTERY 12-20
LSD 12-20-81-15 W5M
EXCHANGER/AERIAL COOLER
P&ID

VANGUARD ENGINEERING INC

PERMIT No.	P10158
PROJECT No.	PBG-13005
SCALE.	NTS
DRAWING No.	1005-PF-0002-01
REV	0

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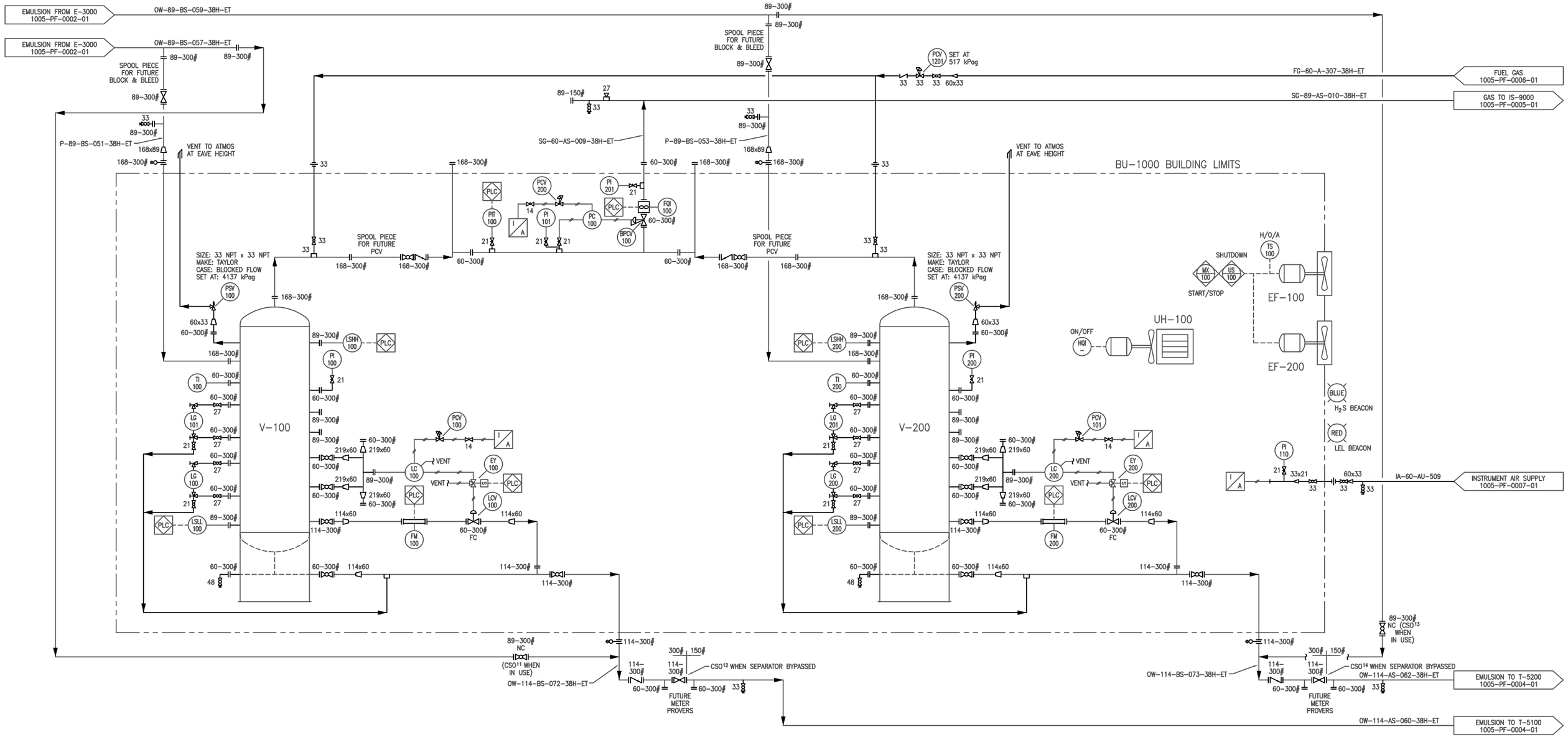
V-100
PRIMARY SEPARATOR
SIZE: 914mm OD x 3048mm S/S
36" OD x 10' S/S
DP: 4964 kPa (720 psi)
3 PHASE, VERTICAL MISTEX
CA: 3.2mm (1/8")
VENDOR: RJV

V-200
PRIMARY SEPARATOR
SIZE: 914mm OD x 3048mm S/S
36" OD x 10' S/S
DP: 4964 kPa (720 psi)
3 PHASE, VERTICAL MISTEX
CA: 3.2mm (1/8")
VENDOR: RJV

EF-100/200
EXHAUST FANS
MOTOR: 1/4 HP, 120/1/60, XP
CAPACITY: 12 A.C.F.H.
VENDOR: RJV

UH-100
BUILDING HEATER
MFR/MODEL: RUFFNECK FX54803PH
DUTY: 7.5 kW
MOTOR: 480/3/60, EXPLOSION PROOF
c/w MODEL XT-111 TERMOSTAT/ON/OFF
DISCONNECT SWITCH
VENDOR: RJV



NOTES

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ENGINEER'S STAMP

DRAWING ORIGIN

	BY	DATE
CHECK		
ELEC.		
I & C		
PM		
PE	RM	27-JAN-14
CLIENT		

CLIENT: PETROBANK
STRENGTH IN OUR RESOURCES

VANGUARD ENGINEERING INC

DRAWING TITLE
DAWSON CSS OIL BATTERY 12-20
LSD 12-20-81-15 W5M
BU-1000 PRIMARY SEPARATOR BUILDING
P&ID

PERMIT No.	P10158
PROJECT No.	PBG-13005
SCALE.	NTS
DRAWING No.	1005-PF-0003-01
REV	0

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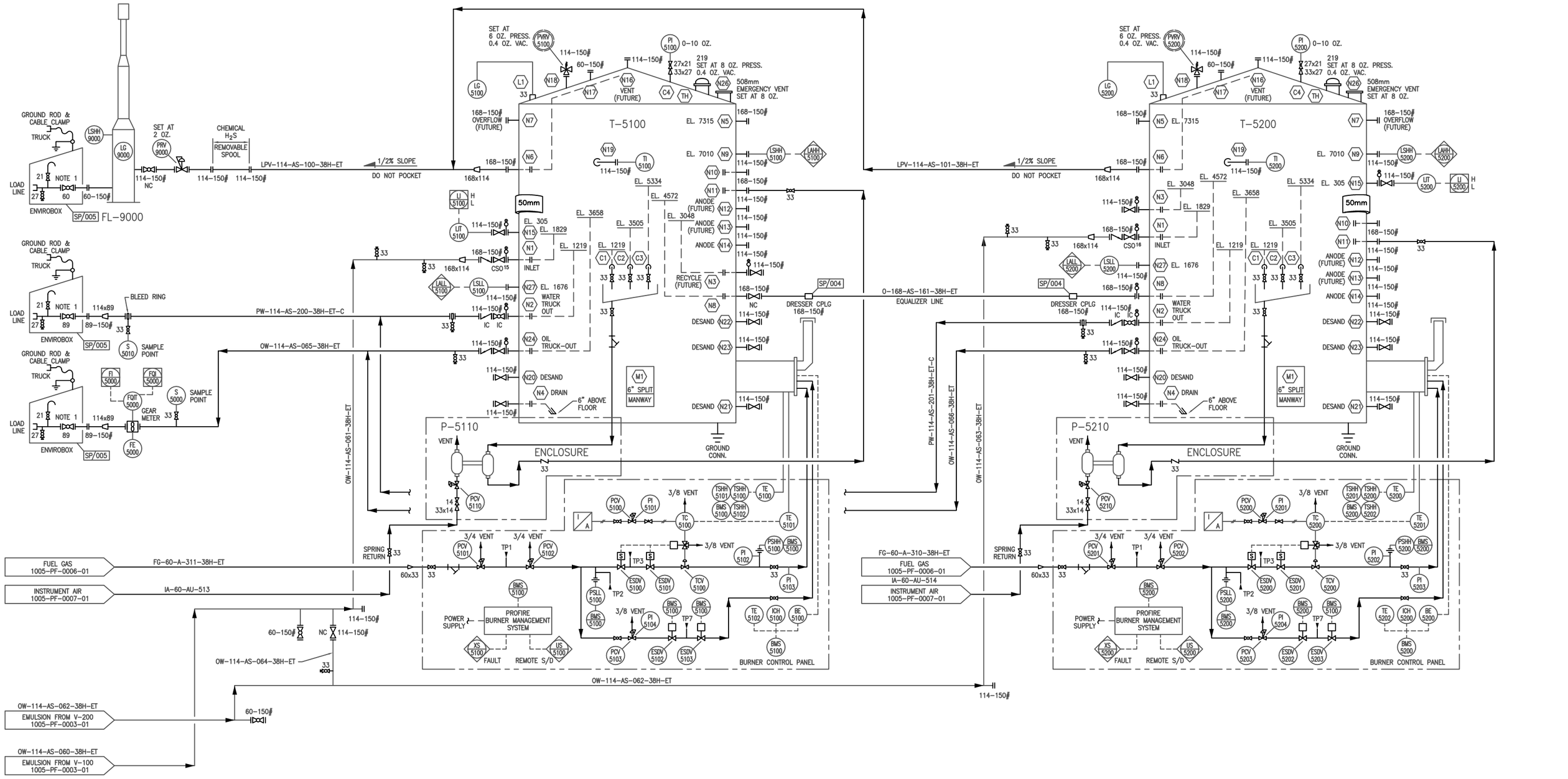
FL–9000
VENT STACK WITH INTEGRAL KNOCK OUT
SIZE: 114mm OD x 12192mm HIGH
VENDOR: TORNADO

T–5100
STORAGE TANK
SIZE: 7087mm OD x 7925mm HIGH
DP: 8oz PRESS. 0.4oz VAC.
CAP: 2000bbl
INSULATION: 50mm SPRAY–ON URETHANE
COATING: DEVOE 253 DEVMAT III FLOOR AND ROOF
BURNER: 1.0MM BTU/HR
VENDOR: BILTON

P–5110
SAMPLE BOX PUMP
MFR/MOTOR: SANDPIPER SIF81ABWANS 700
CAPACITY: 45 USGPM
DIFFERENTIAL PRESSURE: 690 kPag
VENDOR: VIKING PUMP

T–5200
STORAGE TANK
SIZE: 7087mm OD x 7925mm HIGH
DP: 8oz PRESS. 0.4oz VAC.
CAP: 2000bbl
INSULATION: 50mm SPRAY–ON URETHANE
COATING: DEVOE 253 DEVMAT III FLOOR AND ROOF
BURNER: 1.0MM BTU/HR
VENDOR: BILTON

P–5210
SAMPLE BOX PUMP
MFR/MOTOR: SANDPIPER SIF81ABWANS 700
CAPACITY: 45 USGPM
DIFFERENTIAL PRESSURE: 690 kPag
VENDOR: VIKING PUMP



NOTES

1. FREEZE PROOF BALL VALVE.

REV	DATE	REVISION DESCRIPTION	BY
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ENGINEER'S STAMP

DRAWING ORIGIN	BY	DM	27–JAN–14
	CHECK		
	ELEC.		
	I & C		
	PM		
	PE	RM	27–JAN–14
	CLIENT		

CLIENT: PETROBANK — STRENGTH IN OUR RESOURCES

DRAWING TITLE
DAWSON CCS OIL BATTERY 12–20
LSD 12–20–81–15 W5M
STORAGE TANKS
P&ID

VANGUARD ENGINEERING INC

PERMIT No.	P10158
PROJECT No.	PBG–13005
SCALE.	NTS
DRAWING No.	1005–PF–0004–01
REV	0

REFERENCE DRAWING TITLE/No.

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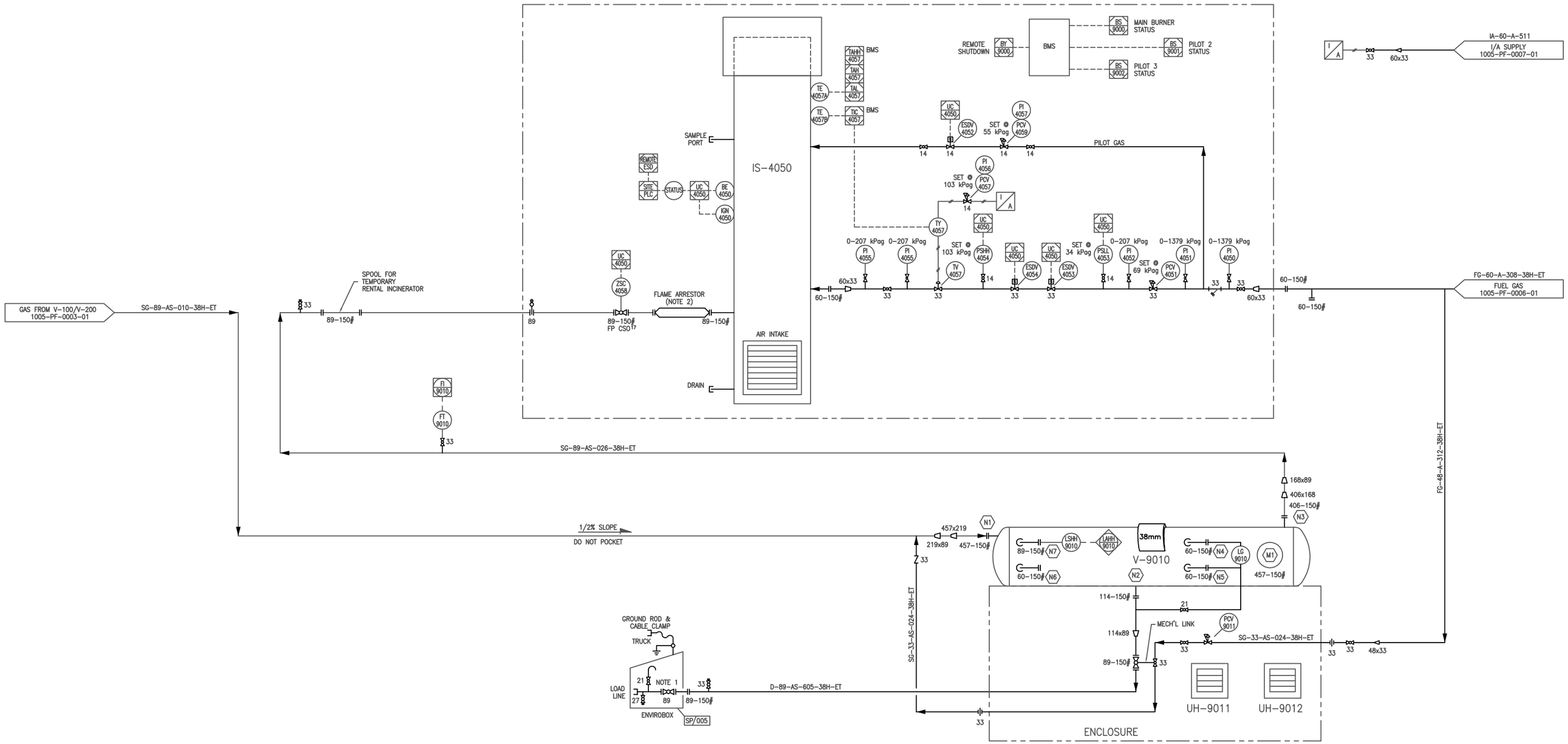
IS-4050
INCINERATOR
MFR/MODEL: QUESTOR Q250
SIZE: 914mm OD x 9144mm HIGH
MAX INPUT RATING: 10 MMBTU/HR

UH-9011/9012
FKOD ENCLOSURE HEATERS
MFR/MODEL: CISCAN
DUTY: 3 kW
VENDOR: OILPRO PRODUCTION EQUIPMENT

V-9010
INCINERATOR KNOCK-OUT DRUM
SIZE: 1829mm OD x 5486mm S/S
CAP: 100 BBL
DP: 517 kPa @ 343°C
MAX. OP: 100 kPa @ 93°C
INTERNAL COATING: NON-COATED
INSULATION: 38mm URETHANE FOAM
VENDOR: OILPRO PRODUCTION EQUIPMENT



NOTES

1. FREEZE PROOF BALL VALVE.
2. INSULATE AND ELECTRIC TRACE FLAME ARRESTOR.

REV	DATE	REVISION DESCRIPTION	BY
0	10-APR-14	ISSUED FOR CONSTRUCTION	DM
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A	27-JAN-14	ISSUED FOR REVIEW	DM

ENGINEER'S STAMP

DRAWING ORIGIN

BY	DM	27-JAN-14
CHECK		
ELEC.		
I & C		
PM		
PE	RM	27-JAN-14
CLIENT		

CLIENT: PETROBANK (STRENGTH IN OUR RESOURCES)

DRAWING TITLE
DAWSON CSS OIL BATTERY 12-20
LSD 12-20-81-15 W5M
INCINERATOR
P&ID

VANGUARD ENGINEERING INC

PERMIT No.	P10158
PROJECT No.	PBG-13005
SCALE.	NTS
DRAWING No.	1005-PF-0005-01
REV	0

REFERENCE DRAWING TITLE/No.

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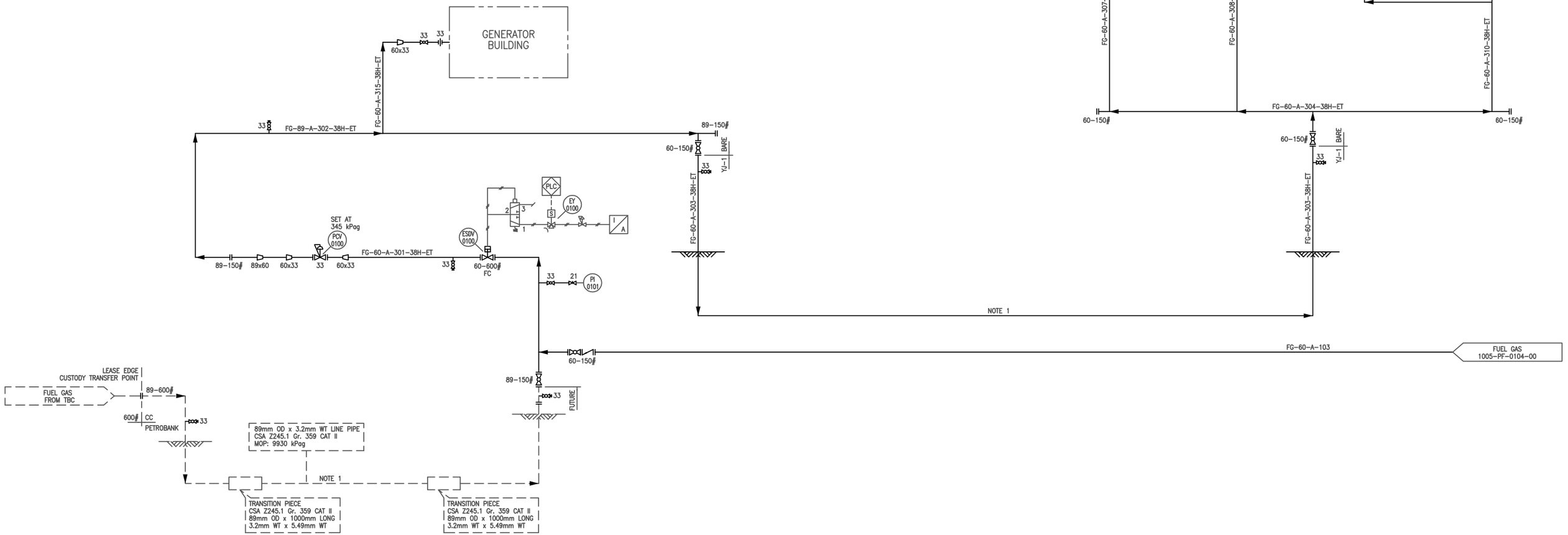

NOTES

1. UNDERGROUND PIPE TO BE EXTERNALLY COATED WITH YJ-1 OR EQUAL.

REV	DATE	REVISION DESCRIPTION	BY
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B	14-MAR-14	ISSUED FOR APPROVAL	DM
A	27-JAN-14	ISSUED FOR REVIEW	DM

ENGINEER'S STAMP

DRAWING ORIGIN

BY	DM	27-JAN-14
CHECK		
ELEC.		
I & C		
PM		
PE	RM	27-JAN-14
CLIENT		

CLIENT: PETROBANK — STRENGTH IN OUR RESOURCES

VANGUARD ENGINEERING INC

DRAWING TITLE: DAWSON CSS OIL BATTERY 12-20
LSD 12-20-81-15 W5M
FUEL GAS
P&ID

PERMIT No.	P10158
PROJECT No.	PBG-13005
SCALE.	NTS
DRAWING No.	1005-PF-0006-01
REV	0

REFERENCE DRAWING TITLE/No.

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Appendix E

Proposed THAI Facility Diagram

FOR APPROVAL ONLY
DO NOT USE FOR CONSTRUCTION

11A/9-14 WELLHEAD
7A/9-14 WELLHEAD
3-13 WELLHEAD (P1)
4-13 WELLHEAD (P2)
BOTTOM HOLE 11A/9-14
BOTTOM HOLE 7A/9-14
PRIMARY SEPARATOR
PRIMARY SEPARATOR
AIR COMPRESSOR
ATM
STEAM GENERATOR 25MM BTU/HR (TEMP)
VAPOUR EXCHANGER
SECONDARY SEPARATOR
DESAND VESSEL
DESAND PAN
EMULSION EXCHANGER
STEAM GENERATOR 1.4MM BTU/HR
FUEL GAS FROM TRANS GAS
FUEL GAS TO PLANT SUPPLY
DESAND TANK
EMULSION STORAGE TANK
OIL STORAGE TANK
WATER STORAGE TANK
WATER TRANSFER PUMP
VRU
INCINERATOR
OIL TRUCK-OUT
WATER TRUCK-OUT

STREAM #	100	101	102	103	104	105	106	107	109	110	111	112	113	114	115	116	118	119	120	121
COMMODITY	EMULSION	EMULSION	VAPOUR	VAPOUR	VAPOUR	VAPOUR	VAPOUR	LIQUID	EMULSION	EMULSION	EMULSION	EMULSION	EMULSION	EMULSION	OIL	WATER	GAS	GAS	AIR	AIR
VapFrac	0.8186	0.8186	1.0000	1.0000	1.0000	0.5060	1.0000	0.0000	0.0000	0.0000	0.0003	0.0000	0.0000	0.0001	0.0000	0.0000	1.0000	1.0000	1.0000	1.0000
T [C]	150.0	150.0	147.5	147.5	130.6	50.0	50.0	50.0	147.5	147.5	132.4	132.4	70.0	64.6	64.6	64.6	64.6	131.3	45.0	45.0
P [kPag]	800.0	800.0	800.0	800.0	230.0	200.0	200.0	200.0	800.0	800.0	380.0	380.0	310.0	2.0	2.0	2.0	2.0	73.0	5500.0	5500.0
Std Gas Volume Flow [ksm3/d]	178.787	178.787	165.619	165.619	0.123	167.654	167.654				0.123			0.040			0.040	0.040	81.884	81.884
Std Oil Volume Flow [m3/d]	75.9	75.9				4.4		4.4	76.2	76.2	152.1	152.1	152.1	156.4	156.4					
Std Water Volume Flow [m3/d]	27.1	27.1				124.3		124.3	101.1	101.1	266.1	266.1	266.1	390.5		198.5				

CORNERSTONE ENGINEERING LTD

NUMBER	TITLE
A	ISSUED FOR REGULATORY APPROVAL

NO	REVISION	BY	DATE	CKD	APP
		LST	09.04.15		

EPC JOB # 09-012
REFERENCE DRAWINGS

PERMIT STAMP

ENGINEER'S STAMP

ENGINEER'S STAMP SHALL APPLY ONLY TO REVISION(s)

PROJECT: KERROBERT HEAVY OIL PILOT PROJECT

	DRAWN	CHECKED	APPROVED DSGN. ENG.	APPROVED PROJ. ENG.	
BY	LST				
DATE	09.03.27				

PROJECT No: 08-018 | DWG. SIZE: A1 (594x841) | SCALE: NTS

PETROBANK ENERGY AND RESOURCES LTD.

04-13 OIL BATTERY
PROCESS MATERIAL BALANCE DIAGRAM
LSD: 04-13-33-24 W3M

DRAWING NUMBER 1003-PC-0052-01 | REV A

Petrobank-A1