

Tundra Oil and Gas Ltd

Three Forks Subcrop Edges

Orange line - Lyleton A subcrop

Brown line - Lyleton Shale subcrop

Licensed to : Tundra Oil and Gas Ltd

geoSCOUT
www.geologic.com

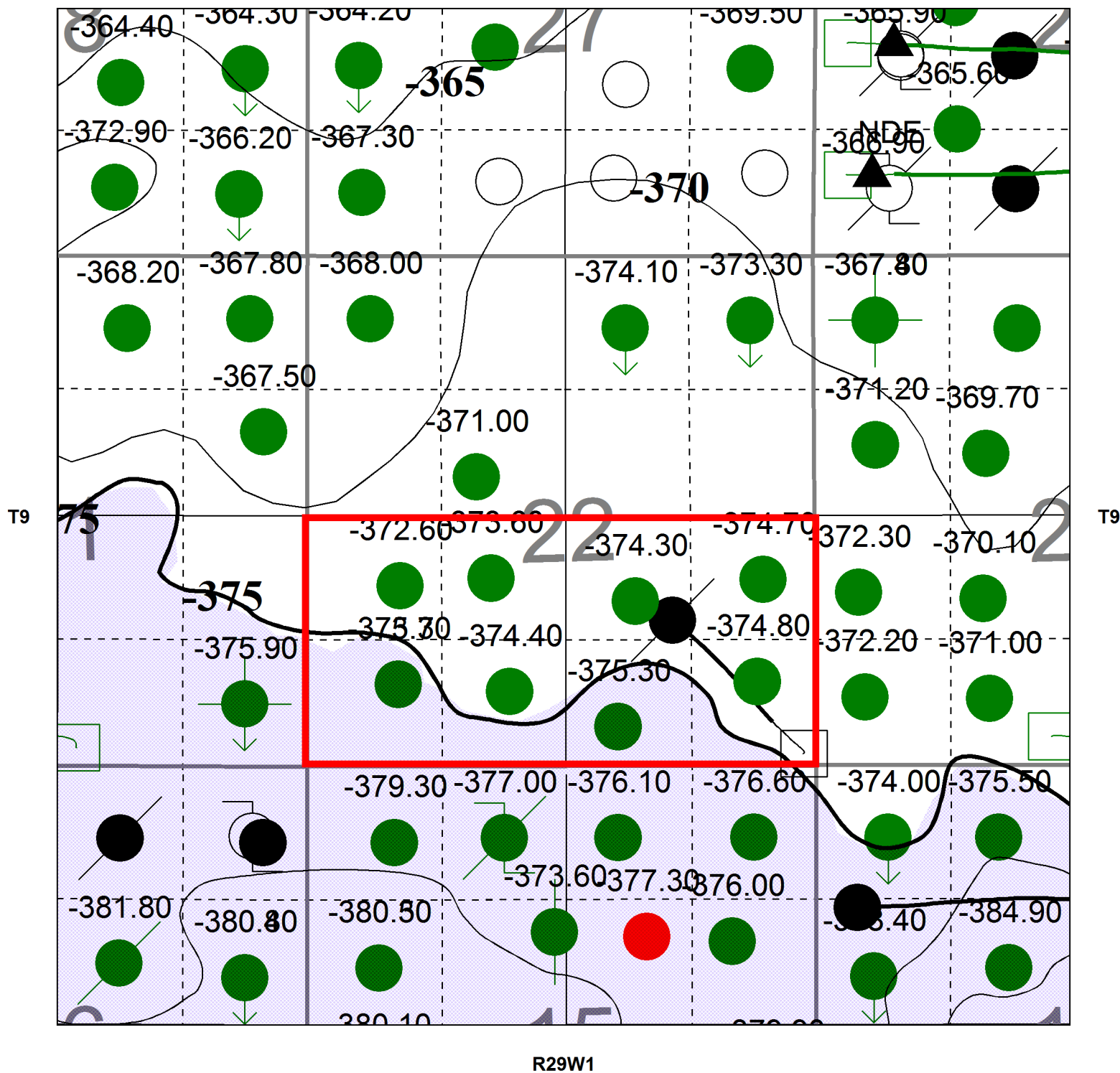
By : Jennifer Tremblay

Date : 2013/09/24

Scale = 1:17500

Project : Sin - Manson





Tundra Oil and Gas Ltd

Top Middle Bakken Subsea Structure 5m contour interval

Licensed to : Tundra Oil and Gas Ltd



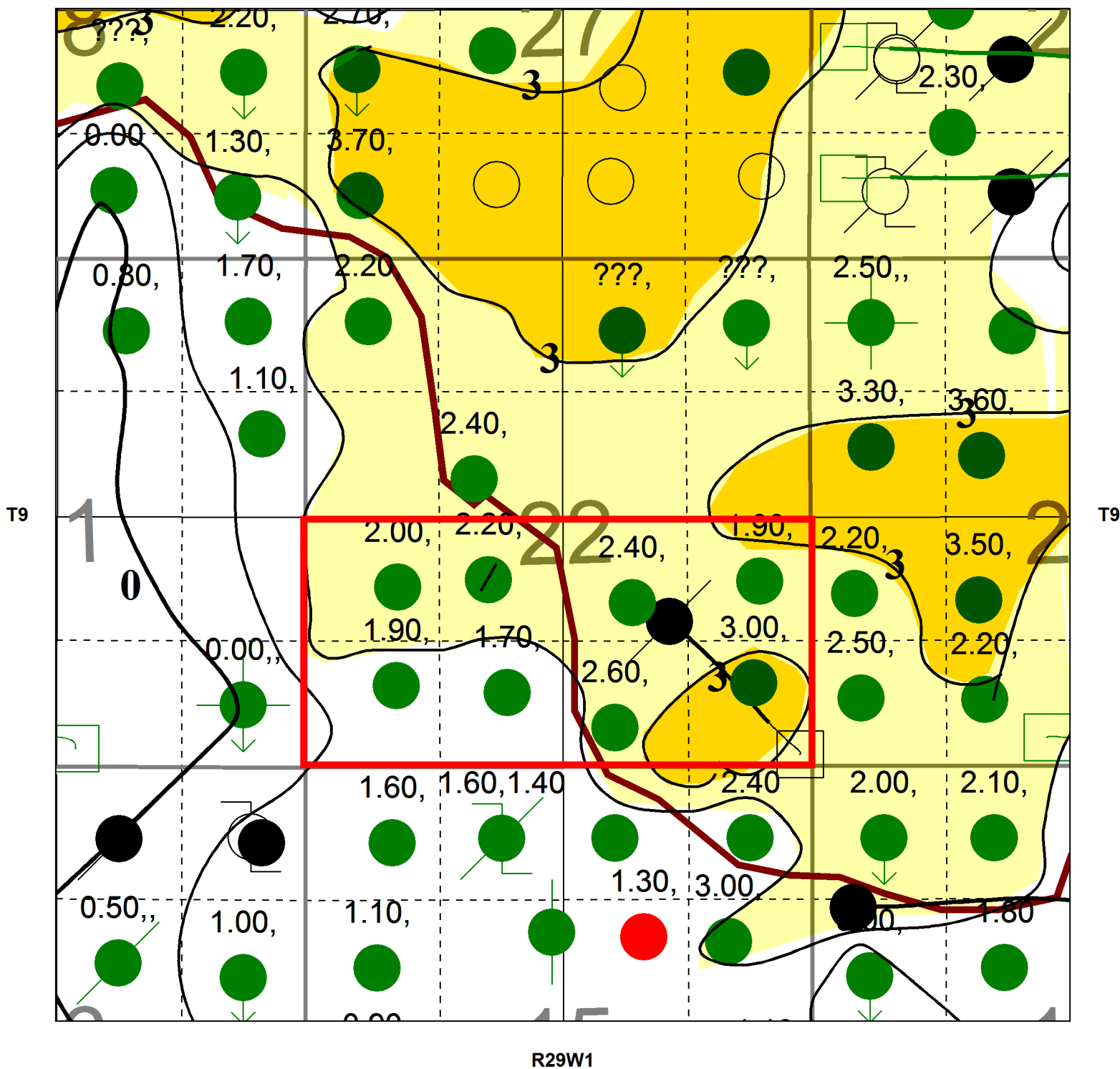
By : Jennifer Tremblay

Date : 2013/09/24

Scale = 1:17500

Project : Sin - Manson





Tundra Oil and Gas Ltd

Middle Bakken > 12% LS Porosity
~ Net Pay

1m contour interval

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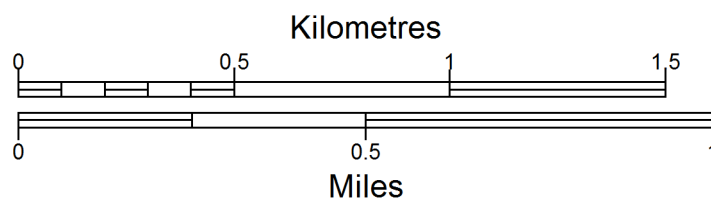
By : Jennifer Tremblay

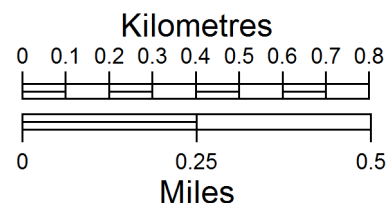
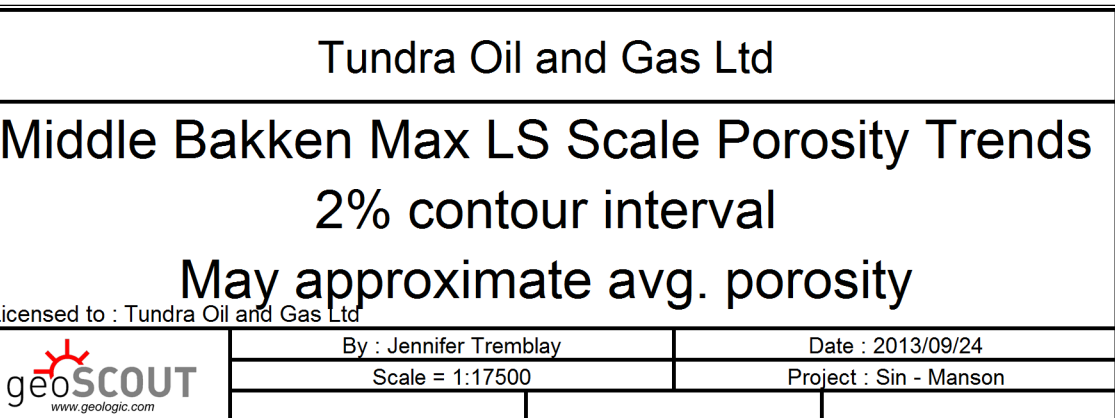
Date : 2013/09/26

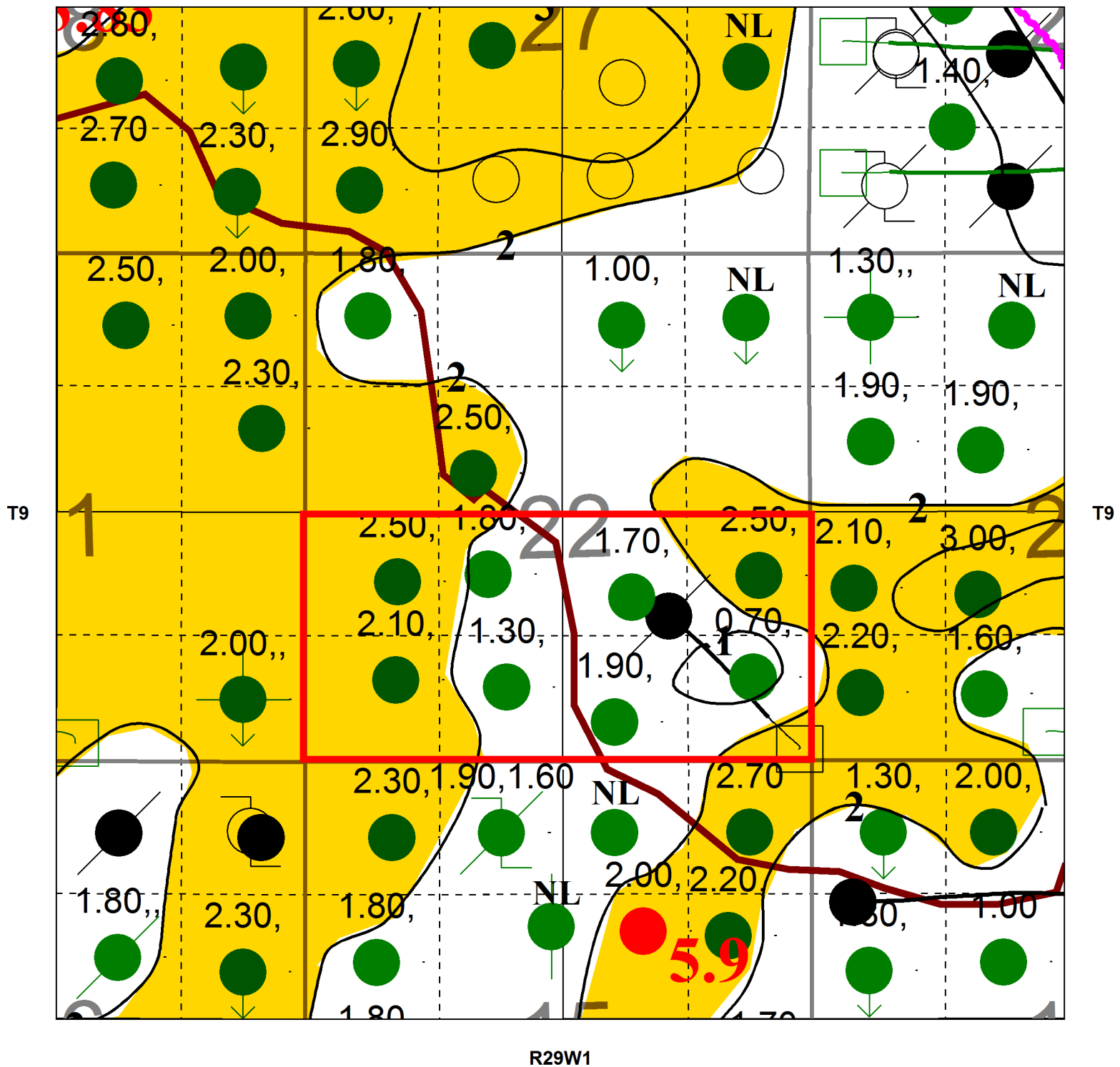
Scale = 1:17529

Project : Sin - Manson

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Tundra Oil and Gas Ltd

Lyleton 'B' 'Net Pay'

1 m contour interval

based on integration of SP, Res, Density

Licensed to : Tundra Oil and Gas Ltd

By : Jennifer Tremblay

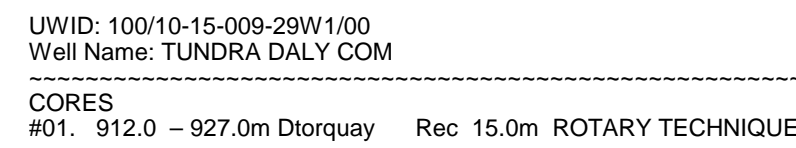
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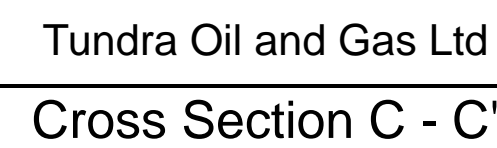
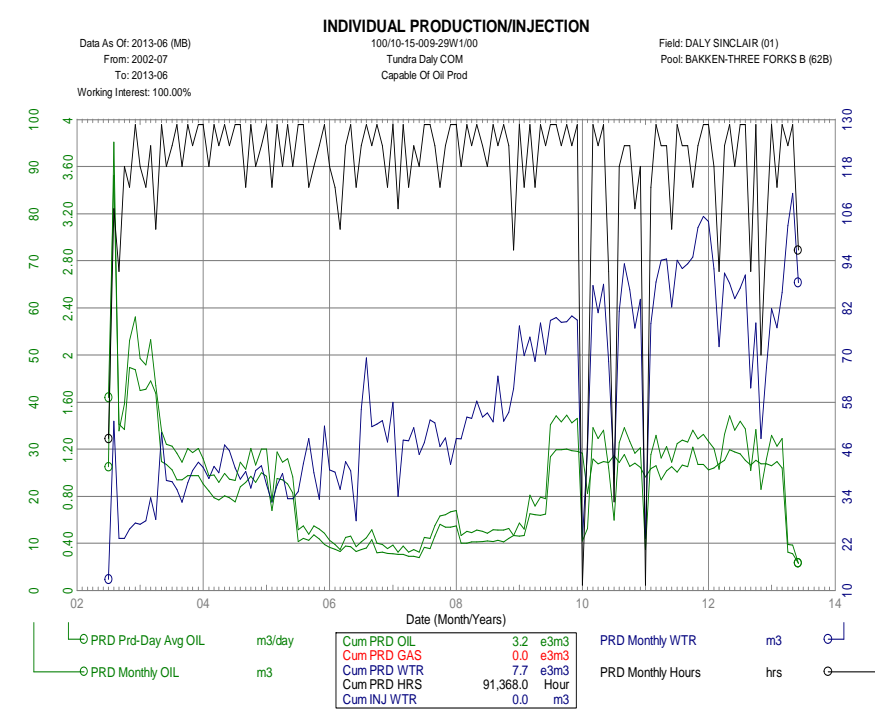
Project : Sin - Manson

interpretive!





CORES
#01. 904.0 – 920.0m Dtorquay Rec 15.1m ROTARY TECHNIQUE



Datum : MbknM_ss	Sc
Interval : From MbknU_sh to T.D.	



Core Data

Well Summary

Well ID: 100/10-15-009-29W1/00
 Well Name: TUNDRA DALY COM
 KB: 536.7 m
 Operator: Tundra O&G Prtnshp
 Orig Operator: Rideau Petrls Ltd

Project: Sin - Manson
 Database Date: 2013/08/27
 Field: DALY SINCLAIR
 Pool: BAKKEN-THREE FORKS B
 OS Area:
 OS Dep:

Analysis Summary

CA Number: 000001
 File Number:
 Lab: 360
 Analysis:
 Analysis Date: 2002/06/24

CA Top: 912.00 m
 CA Base: 927.00 m
 CA Interval: 15.00 m
 Core Number: 001
 Core Interval: 912.00 m – 927.00 m

Statistical Summary

Mean Values

Analysis Output:

Interval Top: 913.62 m
 Interval Base: 916.92 m
 Net Thickness: 3.26 m
 phi-H: 0.55
 Kmax-H: 35.71 mD-m

Total Core:

Kmax(mD)
 K90(mD)
 Kvert(mD)
 Porosity(%)

Ari
 Geo
 Har
 Ari
 Geo
 Har

Applied Cut-offs:

Ari
 Geo
 Har
 Ari
 Geo
 Har

Cut-offs Applied:

Min Max
 Depth(m): 913.60 916.90
 Porosity(frac):
 KMax(mD):
 K90(mD):
 KVert(mD):
 Formation:

Min Max
 Grn Den(kg/m3):
 Blk Den(kg/m3):
 BlkMass Snd(frac):
 BlkMass Wtr(frac):
 GrnMass Wtr(frac):
 BlkMass Oil(frac):
 GrnMass Oil(frac):

Min Max
 BlkVol Wtr(frac):
 PorVol Wtr(frac):
 BlkVol Wtr(frac):
 PorVol Wtr(frac):
 BlkVol Oil(frac):
 PorVol Oil(frac):
 Core Gamma(API):

Core	Code	Depth m	Length m	K-Max mD	K-90 mD	K-Vert mD	Porosity frac	Grn Den kg/m3	Blk Den kg/m3	Por Vol Oil frac	Por Vol Wtr frac	Lithology
1*	NA	912.00	1.26									
1*	NA	913.27	0.34									
1*		913.62	0.38	9.56			0.197	2860	2290	0.091	0.732	f slty ss sshy vf
1*		914.01	0.33	4.00	2.94	0.08	0.149	2750	2340	0.060	0.823	f slty ss sshy vf
1*		914.34	0.25	4.36			0.194	2770	2240	0.140	0.590	slty ss sshy vf
1*		914.59	0.36	53.60	52.80	0.38	0.208	2750	2170	0.111	0.737	f lam ss vf
1*		914.95	0.34	14.00			0.182	2760	2250	0.077	0.741	f lam slty ss vf
1*		915.30	0.34	5.40	2.72	0.13	0.160	2700	2270	0.081	0.762	f lam slty ss vf
1*		915.64	0.50	4.51	3.25	0.05	0.155	2730	2300	0.066	0.782	f lam slty ss vf
1*		916.15	0.20	0.43			0.148	2760	2350	0.038	0.809	f lam slty ss sshy vf
1*		916.36	0.28	4.59	3.90	0.05	0.164	2770	2380	0.021	0.614	f pyr slty ss sshy vf
1*		916.64	0.28	0.52			0.130	2870	2490	0.153	0.520	f pyr slty ss sshy vf
1*	NA	916.92	0.81									
1*		917.74	0.23	2.42			0.182	2800	2290	0.219	0.502	dol i ssdy
1*		917.98	0.25	2.17			0.142	2800	2400	0.183	0.479	dol i ssdy
1*		918.24	0.33	1.89	1.86	0.90	0.154	2780	2350	0.226	0.454	dol i ssdy
1*		918.57	0.28	3.85			0.172	2780	2300	0.217	0.413	dol i ssdy
1*		918.85	0.18	5.32			0.206	2830	2250	0.125	0.499	dol i ssdy
1*	NA	919.04	0.11									
1*		919.16	0.20	5.64	5.54	1.42	0.212	2750	2160	0.230	0.438	
1*	NA	919.37	0.14									
1*		919.51	0.30	0.23	0.20	0.02	0.187	2790	2260	0.032	0.862	dol i slty sshy
1*	NA	919.81	0.10									
1*		919.91	0.15	0.28			0.186	2780	2260	0.038	0.863	dol i slty sshy
1*	NA	920.07	0.12									
1*		920.20	0.63	1.06			0.187	2770	2250	0.031	0.906	dol i lam ru ssdy sshy
1*	NA	920.84	0.20									
1*		921.04	0.18	0.34			0.197	2800	2250	0.041	0.894	dol i slty sshy
1*	NA	921.22	1.21									
1*	NA	922.43	1.10									
1*	NA	923.53	3.06									

1*	NA	926.60	0.40
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Core Data

Well Summary

Well ID: 100/10-15-009-29W1/00
 Well Name: TUNDRA DALY COM
 KB: 536.7 m
 Operator: Tundra O&G Prtnshp
 Orig Operator: Rideau Petrls Ltd

Project: Sin - Manson
 Database Date: 2013/08/27
 Field: DALY SINCLAIR
 Pool: BAKKEN-THREE FORKS B
 OS Area:
 OS Dep:

Analysis Summary

CA Number: 000001
 File Number:
 Lab: 360
 Analysis:
 Analysis Date: 2002/06/24

CA Top: 912.00 m
 CA Base: 927.00 m
 CA Interval: 15.00 m
 Core Number: 001
 Core Interval: 912.00 m – 927.00 m

Statistical Summary

Mean Values

Analysis Output:

Interval Top: 917.74 m
 Interval Base: 920.06 m
 Net Thickness: 2.27 m
 phi-H: 0.34
 Kmax-H: 5.00 mD-m

Total Core:

	Ari	Geo	Har
Kmax(mD)	6.21	2.49	1.03
K90(mD)	9.15	3.20	1.14
Kvert(mD)	0.38	0.15	0.07
Porosity(%)	17.56	17.40	17.23

Applied Cut-offs:

	Ari	Geo	Har
	2.73	1.71	0.80
	2.53	1.27	0.52
	0.78	0.29	0.06
	18.01	17.87	17.72

Cut-offs Applied:

	Min	Max		Min	Max		Min	Max
Depth(m):	917.70	920.00	Grn Den(kg/m3):			BlkVol Wtr(frac):		
Porosity(frac):			Blk Den(kg/m3):			PorVol Wtr(frac):		
KMax(mD):			BlkMass Snd(frac):			BlkVol Wtr(frac):		
K90(mD):			BlkMass Wtr(frac):			PorVol Wtr(frac):		
KVert(mD):			GrnMass Wtr(frac):			BlkVol Oil(frac):		
Formation:			BlkMass Oil(frac):			PorVol Oil(frac):		
			GrnMass Oil(frac):			Core Gamma(API):		

Core	Code	Depth m	Length m	K-Max mD	K-90 mD	K-Vert mD	Porosity frac	Grn Den kg/m3	Blk Den kg/m3	Por Vol Oil frac	Por Vol Wtr frac	Lithology
1*	NA	912.00	1.26									
1*	NA	913.27	0.34									
1*		913.62	0.38	9.56			0.197	2860	2290	0.091	0.732	f slty ss sshy vf
1*		914.01	0.33	4.00	2.94	0.08	0.149	2750	2340	0.060	0.823	f slty ss sshy vf
1*		914.34	0.25	4.36			0.194	2770	2240	0.140	0.590	slty ss sshy vf
1*		914.59	0.36	53.60	52.80	0.38	0.208	2750	2170	0.111	0.737	f lam ss vf
1*		914.95	0.34	14.00			0.182	2760	2250	0.077	0.741	f lam slty ss vf
1*		915.30	0.34	5.40	2.72	0.13	0.160	2700	2270	0.081	0.762	f lam slty ss vf
1*		915.64	0.50	4.51	3.25	0.05	0.155	2730	2300	0.066	0.782	f lam slty ss vf
1*		916.15	0.20	0.43			0.148	2760	2350	0.038	0.809	f lam slty ss sshy vf
1*		916.36	0.28	4.59	3.90	0.05	0.164	2770	2380	0.021	0.614	f pyr slty ss sshy vf
1*		916.64	0.28	0.52			0.130	2870	2490	0.153	0.520	f pyr slty ss sshy vf
1*	NA	916.92	0.81									
1*		917.74	0.23	2.42			0.182	2800	2290	0.219	0.502	dol i ssdy
1*		917.98	0.25	2.17			0.142	2800	2400	0.183	0.479	dol i ssdy
1*		918.24	0.33	1.89	1.86	0.90	0.154	2780	2350	0.226	0.454	dol i ssdy
1*		918.57	0.28	3.85			0.172	2780	2300	0.217	0.413	dol i ssdy
1*		918.85	0.18	5.32			0.206	2830	2250	0.125	0.499	dol i ssdy
1*	NA	919.04	0.11									
1*		919.16	0.20	5.64	5.54	1.42	0.212	2750	2160	0.230	0.438	
1*	NA	919.37	0.14									
1*		919.51	0.30	0.23	0.20	0.02	0.187	2790	2260	0.032	0.862	dol i slty sshy
1*	NA	919.81	0.10									
1*		919.91	0.15	0.28			0.186	2780	2260	0.038	0.863	dol i slty sshy
1*	NA	920.07	0.12									
1*		920.20	0.63	1.06			0.187	2770	2250	0.031	0.906	dol i lam ru ssdy sshy
1*	NA	920.84	0.20									
1*		921.04	0.18	0.34			0.197	2800	2250	0.041	0.894	dol i slty sshy
1*	NA	921.22	1.21									
1*	NA	922.43	1.10									
1*	NA	923.53	3.06									

1*	NA	926.60	0.40
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Core Data

Well Summary

Well ID: 100/11-28-009-29W1/00
 Well Name: TUNDRA DALY PROV.
 KB: 539.9 m
 Operator: Tundra O&G Prtnshp
 Orig Operator:

Project: Sin - Manson
 Database Date: 2013/08/27
 Field: DALY SINCLAIR
 Pool: 01
 OS Area:
 OS Dep:

Analysis Summary

CA Number: 52138-07-5108
 File Number: 52138-07-5108
 Lab: CORE LAB CANADA LTD.
 Analysis: MB
 Analysis Date: 2007/08/05

CA Top: 904.00 m
 CA Base: 920.00 m
 CA Interval: 16.00 m
 Core Number: 001
 Core Interval: 904.00 m – 920.00 m

Statistical Summary

Mean Values

Analysis Output:

		Total Core:			Applied Cut-offs:			
		Ari	Geo	Har	Ari	Geo	Har	
Interval Top:	905.50 m							
Interval Base:	909.53 m	Kmax(mD)	3.27	0.46	0.20	4.13	0.34	0.16
Net Thickness:	4.03 m	K90(mD)	0.00	0.00	0.00	0.00	0.00	0.00
phi-H:	0.56	Kvert(mD)	0.00	0.00	0.00	0.00	0.00	0.00
Kmax-H:	14.35 mD-m	Porosity(%)	14.99	14.81	14.64	13.98	13.85	13.74

Cut-offs Applied:

	Min	Max		Min	Max		Min	Max
Depth(m):	905.40	909.30	Grn Den(kg/m3):			BlkVol Wtr(frac):		
Porosity(frac):			Blk Den(kg/m3):			PorVol Wtr(frac):		
KMax(mD):			BlkMass Snd(frac):			BlkVol Wtr(frac):		
K90(mD):			BlkMass Wtr(frac):			PorVol Wtr(frac):		
KVert(mD):			GrnMass Wtr(frac):			BlkVol Oil(frac):		
Formation:			BlkMass Oil(frac):			PorVol Oil(frac):		
			GrnMass Oil(frac):			Core Gamma(API):		

Core	Code	Depth m	Length m	K-Max mD	Porosity frac	Grn Den kg/m3	Blk Den kg/m3	Por Vol Oil frac	Por Vol Wtr frac	Lithology
1*	NA	904.00	1.50							sh
1*	SP	905.50	0.55	0.09	0.112	2770	2460		0.902	dol i slty
1*	SP	906.05	0.56	0.07	0.127	2770	2420		0.801	dol i slty
1*	SP	906.61	0.43	0.08	0.140	2770	2380	0.053	0.672	dol i slty
1*	SP	907.04	0.43	31.50	0.183	2770	2260	0.197	0.311	dol i sdy lam
1*	SP	907.47	0.28	0.43	0.138	2730	2350	0.047	0.704	dol i slty
1*	SP	907.75	0.47	0.18	0.145	2730	2340	0.050	0.796	dol i slty
1*	SP	908.22	0.65	0.40	0.143	2740	2350	0.049	0.845	dol i slty
1*	SP	908.87	0.66	0.33	0.130	2720	2370	0.119	0.747	dol i slty
1*	SP	909.53	0.38	1.16	0.143	2810	2410	0.042	0.858	dol i slty
1*	SP	909.91	0.12	0.16	0.189	2780	2260	0.062	0.720	dol i shy
1*	SP	910.03	0.76	4.05	0.179	2770	2270	0.081	0.730	dol i shy
1*	SP	910.79	0.39	0.74	0.170	2790	2310	0.039	0.783	dol i shy
1*	NA	911.18	3.47							sh dol
1*	NA	914.65	4.45							sh
1*	LC	919.10	0.90							lost core

Core Data

Well Summary

Well ID: 100/11-28-009-29W1/00
 Well Name: TUNDRA DALY PROV.
 KB: 539.9 m
 Operator: Tundra O&G Prtnshp
 Orig Operator:

Project: Sin - Manson
 Database Date: 2013/08/27
 Field: DALY SINCLAIR
 Pool: 01
 OS Area:
 OS Dep:

Analysis Summary

CA Number: 52138-07-5108
 File Number: 52138-07-5108
 Lab: CORE LAB CANADA LTD.
 Analysis: MB
 Analysis Date: 2007/08/05

CA Top: 904.00 m
 CA Base: 920.00 m
 CA Interval: 16.00 m
 Core Number: 001
 Core Interval: 904.00 m – 920.00 m

Statistical Summary

Mean Values

Analysis Output:

		Total Core:			Applied Cut-offs:			
		Ari	Geo	Har	Ari	Geo	Har	
Interval Top:	909.53 m							
Interval Base:	911.18 m	Kmax(mD)	3.27	0.46	0.20	1.53	0.86	0.46
Net Thickness:	1.65 m	K90(mD)	0.00	0.00	0.00	0.00	0.00	0.00
phi-H:	0.28	Kvert(mD)	0.00	0.00	0.00	0.00	0.00	0.00
Kmax-H:	3.83 mD-m	Porosity(%)	14.99	14.81	14.64	17.02	16.93	16.84

Cut-offs Applied:

	Min	Max		Min	Max		Min	Max
Depth(m):	909.30	911.00	Grn Den(kg/m3):			BlkVol Wtr(frac):		
Porosity(frac):			Blk Den(kg/m3):			PorVol Wtr(frac):		
KMax(mD):			BlkMass Snd(frac):			BlkVol Wtr(frac):		
K90(mD):			BlkMass Wtr(frac):			PorVol Wtr(frac):		
KVert(mD):			GrnMass Wtr(frac):			BlkVol Oil(frac):		
Formation:			BlkMass Oil(frac):			PorVol Oil(frac):		
			GrnMass Oil(frac):			Core Gamma(API):		

Core	Code	Depth m	Length m	K-Max mD	Porosity frac	Grn Den kg/m3	Blk Den kg/m3	Por Vol Oil frac	Por Vol Wtr frac	Lithology
1*	NA	904.00	1.50							sh
1*	SP	905.50	0.55	0.09	0.112	2770	2460		0.902	dol i slty
1*	SP	906.05	0.56	0.07	0.127	2770	2420		0.801	dol i slty
1*	SP	906.61	0.43	0.08	0.140	2770	2380	0.053	0.672	dol i slty
1*	SP	907.04	0.43	31.50	0.183	2770	2260	0.197	0.311	dol i sdy lam
1*	SP	907.47	0.28	0.43	0.138	2730	2350	0.047	0.704	dol i slty
1*	SP	907.75	0.47	0.18	0.145	2730	2340	0.050	0.796	dol i slty
1*	SP	908.22	0.65	0.40	0.143	2740	2350	0.049	0.845	dol i slty
1*	SP	908.87	0.66	0.33	0.130	2720	2370	0.119	0.747	dol i slty
1*	SP	909.53	0.38	1.16	0.143	2810	2410	0.042	0.858	dol i slty
1*	SP	909.91	0.12	0.16	0.189	2780	2260	0.062	0.720	dol i shy
1*	SP	910.03	0.76	4.05	0.179	2770	2270	0.081	0.730	dol i shy
1*	SP	910.79	0.39	0.74	0.170	2790	2310	0.039	0.783	dol i shy
1*	NA	911.18	3.47							sh dol
1*	NA	914.65	4.45							sh
1*	LC	919.10	0.90							lost core



TUNDRA OIL & GAS PARTNERSHIP

TUNDRA DALY PROV. 7-22-9-29

102/07-22-009-29W1/0

LICENSE #: 5169

BAKKEN FORMATION

909.5 – 913.0 mKB

RESERVOIR PRESSURE SURVEY TEST DATA
FEBRUARY 10th – MARCH 10th, 2013

Prepared by: **DOLLCO Well Data Services**
e-mail: dollco@shaw.ca

PO Box 326
417A Mississippian Drive
Esteron, SK
S4A 2A4

Cell: (306) 421 - 7330
Fax: (306) 634 - 7976
Res: (306) 634 - 8761

E-mail: qualityw@sasktel.net

Pressure Survey Report

Company Information

Company Name	TUNDRA OIL & GAS PARTNERSHIP
Contact	CRAIG LANE
e-mail	craig.lane@tundraoilandgas.com
Phone	(204) 748-4409
Site Contact	BRENT FLANNERY
Site Phone	(204) 851-5013

Well Information

Well Name	TUNDRA DALY PROV. 7-22-9-29
Unique Well ID	102/07-22-009-29W1/0
Surface Location	7-22-9-29W1
Well License Number	5169
Well Type	Vertical
Well Fluid Type	01 Oil
Field	DALY PROV.

KB Elevation (SL)	533.70 m
CF Elevation (SL)	529.70 m
GL Elevation (SL)	529.70 m
Distance from KB to CF (Log)	4.00 m
KB-GL Offset	4.00 m

Tubing ID	mm
Tubing OD	mm
Tubing Depth(Log KB)	m
Casing ID	mm
Casing OD	114.3 mm
Casing Depth(Log KB)	940.00 m
PBTD(Log KB)	m



Pressure Survey Report

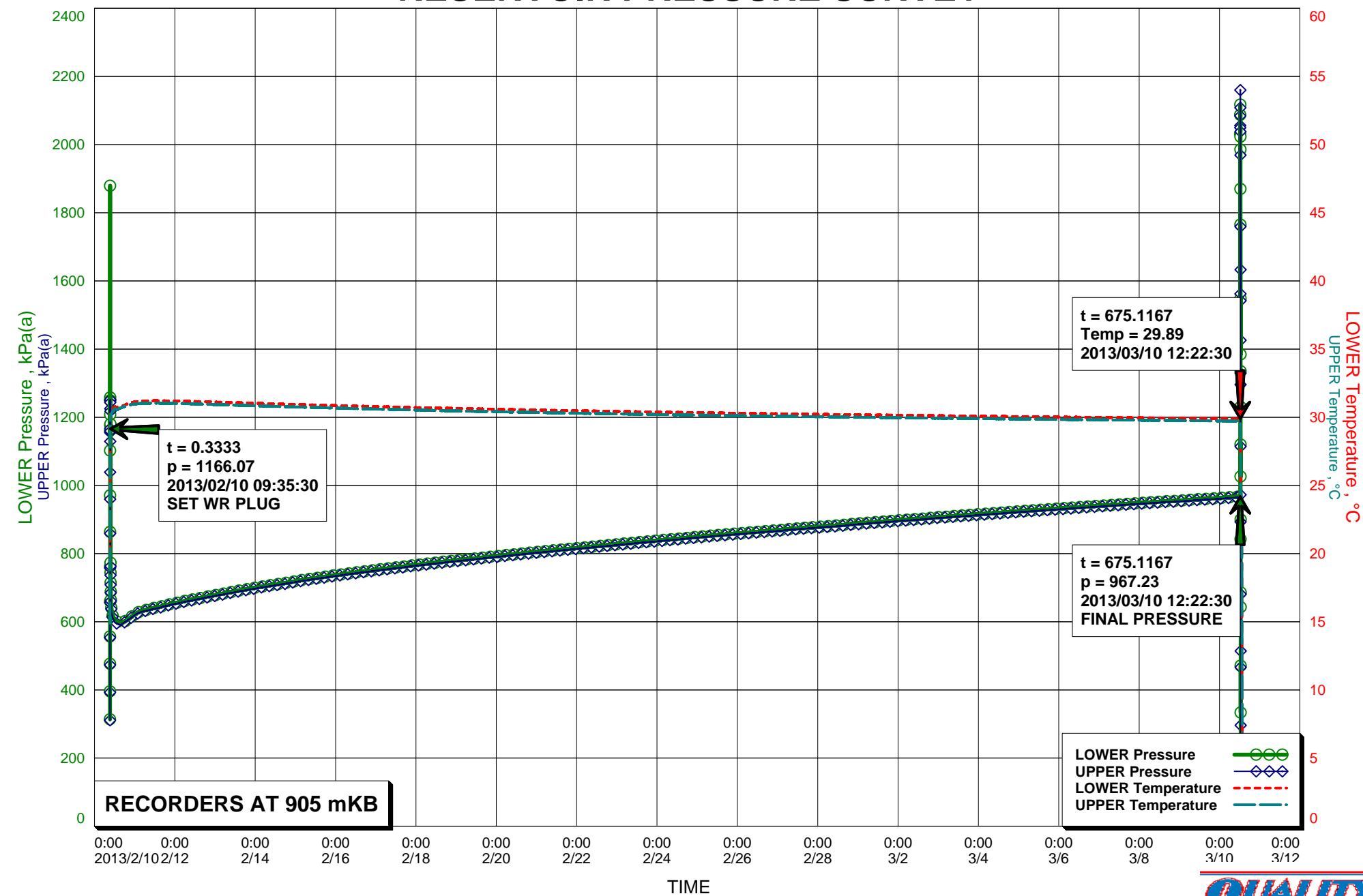
Test Information

Well Name	TUNDRA DALY PROV. 7-22-9-29
Unique Well ID	102/07-22-009-29W1/0
Surface Location	7-22-9-29W1
Well License Number	5169
Well Fluid Type	01 Oil
Test Purpose	Initial Test
Test Type	RESERVOIR PRESSURE SURVEY
Formation	BAKKEN
Pool	
Well Type Indicator	Vertical
Test/Prod. Interval Top KB (Log)	909.50 m
Test/Prod. Interval Base KB (Log)	913.00 m
MPP(Log KB)	911.25 m
Date/Time Gauge on Bottom	2013/02/10 09:31:00
Date/Time Gauge Off Bottom	2013/03/10 12:22:30
Time/Date Well Shut-In	2013/02/10 09:35:30
Tubing Pressure Initial	93.01 kPa(a)
Casing Pressure Initial	93.01 kPa(a)
Tubing Pressure: Final	93.01 kPa(a)
Casing Pressure: Final	93.01 kPa(a)
Last Measured Pressure at Run Depth	967.23 kPa(a)
Reservoir Temperature	29.89 °C
Service Company	Quality Wireline Services Ltd.
Representative	BART ROYAN
Prepared By	DOLLCO Well Data Services
Qualified By	RICK DOLL
Report Date	2013/03/12

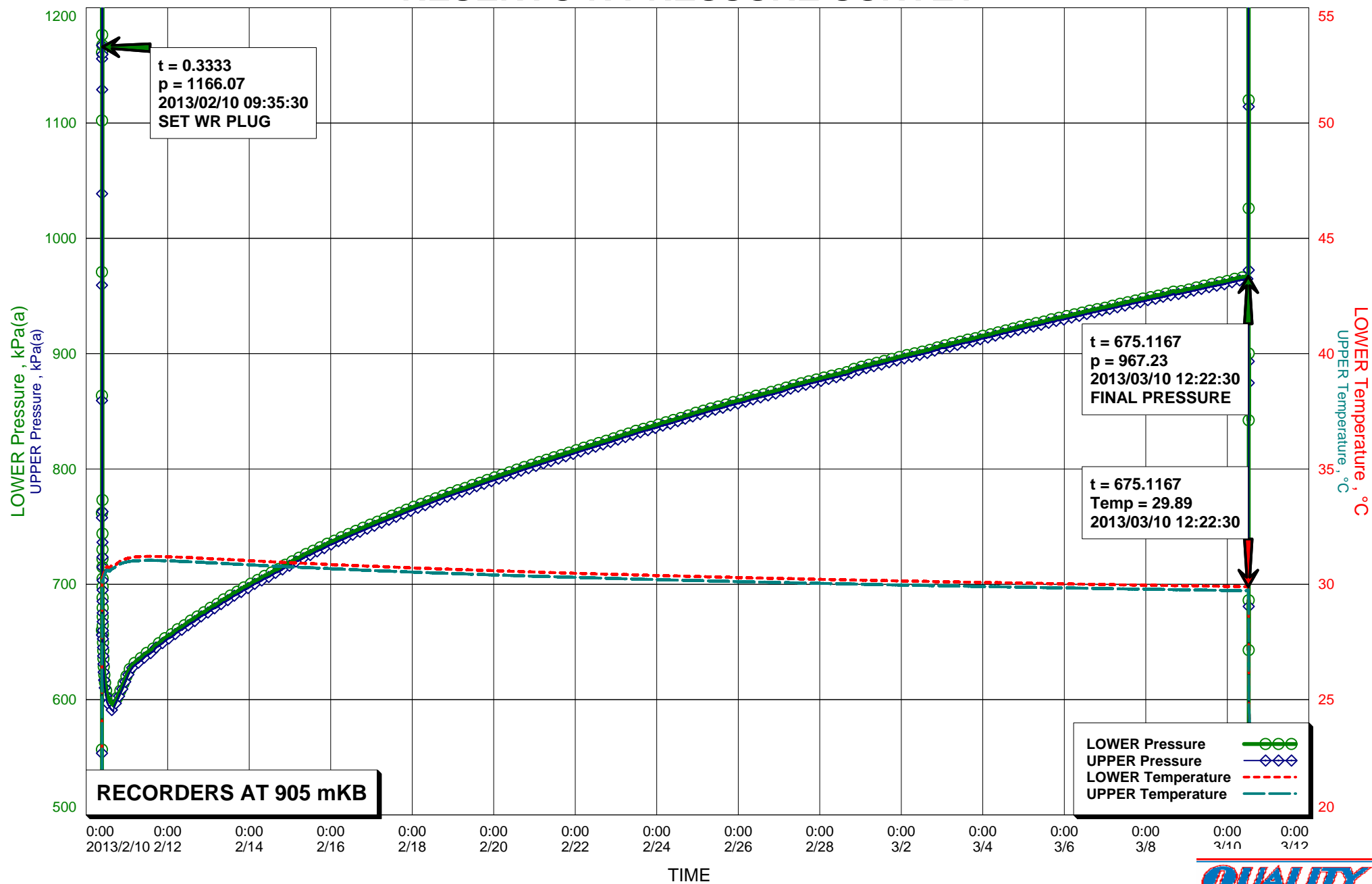
RECORDERS RUN BELOW A TRYTON WR PLUG, TO BE SET ABOVE THE BAKKEN PERFS



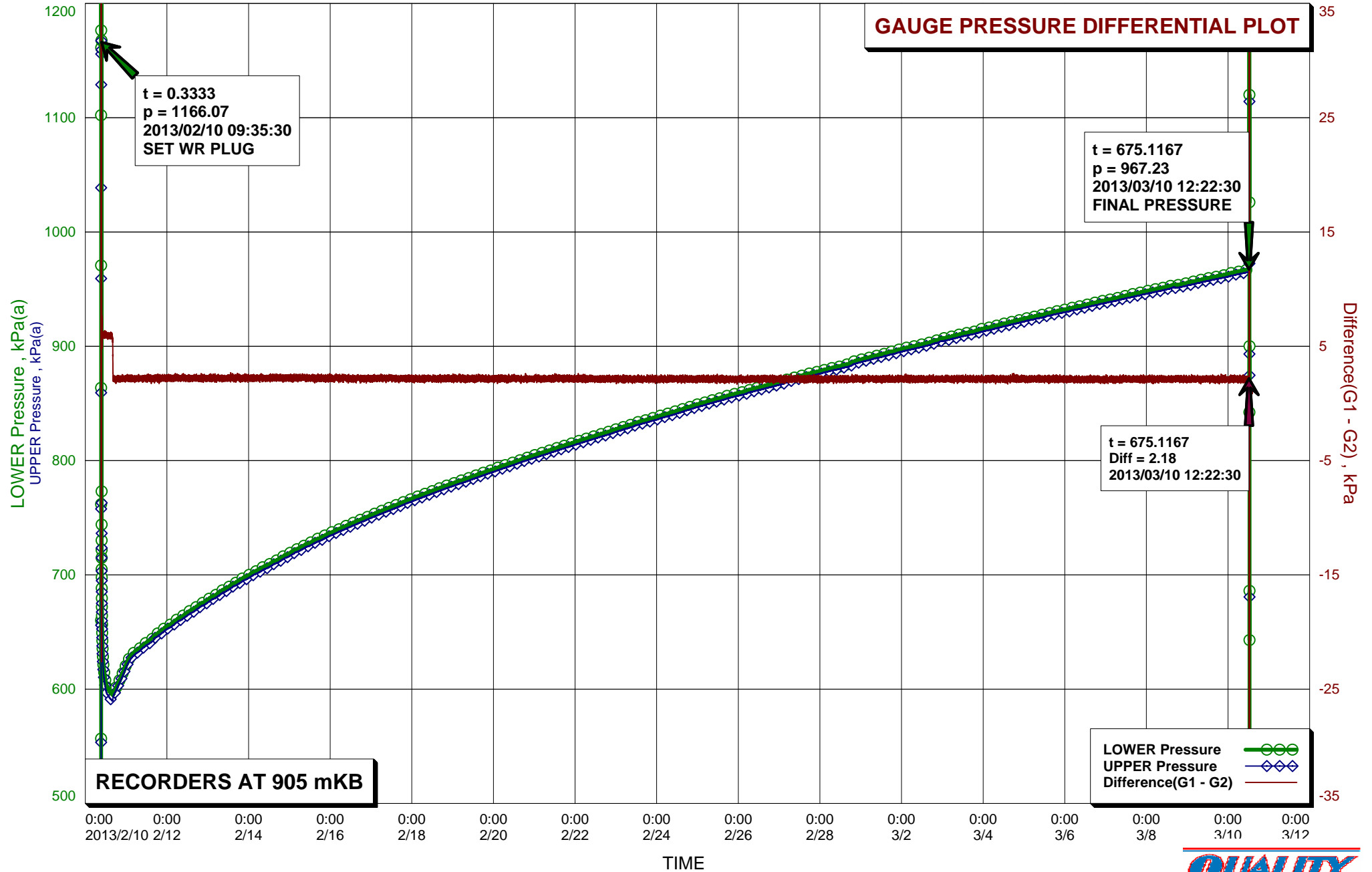
RESERVOIR PRESSURE SURVEY



RESERVOIR PRESSURE SURVEY



RESERVOIR PRESSURE SURVEY



Recorder Information

Company Name	TUNDRA OIL & GAS PARTNERSHIP
Unique Well ID	102/07-22-009-29W1/0
Well Name	TUNDRA DALY PROV. 7-22-9-29
Formation	BAKKEN
Start Test Date	2013/02/10
Final Test Date	2013/03/10

Gauge 1

Gauge Name	LOWER	Gauge Type	ELECTRONIC
Gauge Serial Number	40540	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	905.00 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2011/10/24	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/02/10	Gauge Start Time	09:15:30
Gauge Stop Date	2013/03/10	Gauge Stop Time	14:15:00
Date Gauge On Bottom	2013/02/10	Time Gauge On Bottom	09:31:00
Date Gauge Off Bottom	2013/03/10	Time Gauge Off Bottom	12:22:30

Gauge 2

Gauge Name	UPPER	Gauge Type	ELECTRONIC
Gauge Serial Number	40542	Gauge Manufacturer	REAL TIME MEASUREMENTS
Run Depth (Log KB)	904.70 m	Gauge Model	KC2 STRAIN
Date of Last Calibration	2011/10/24	Maximum Recorder Range	20680.00 kPa
Gauge Start Date	2013/02/10	Gauge Start Time	09:15:30
Gauge Stop Date	2013/03/10	Gauge Stop Time	14:15:00
Date Gauge On Bottom	2013/02/10	Time Gauge On Bottom	09:31:00
Date Gauge Off Bottom	2013/03/10	Time Gauge Off Bottom	12:22:30

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
1	2013/02/10	09:15:30	0.0000	313.63	19.38	0.0000	310.77	14.88
2	2013/02/10	09:15:30	0.0000	RIH, ACTIVATE RECORDERS S/N: 40540(L) & 40542(U)				
3	2013/02/10	09:16:00	0.0083	395.65	20.90	0.0083	392.86	17.13
4	2013/02/10	09:31:00	0.2583	1233.25	30.30	0.2583	1227.34	30.14
5	2013/02/10	09:31:00	0.2583	RECORDERS AT 905.0 mKB				
6	2013/02/10	09:31:30	0.2667	1229.95	30.30	0.2667	1217.84	30.14
7	2013/02/10	09:35:30	0.3333	1166.07	30.29	0.3333	1160.21	30.12
8	2013/02/10	09:35:30	0.3333	SET WR PLUG				
9	2013/02/10	09:36:00	0.3417	773.08	30.27	0.3417	763.01	30.09
10	2013/02/10	13:15:30	4.0000	600.60	30.73	4.0000	594.86	30.59
11	2013/02/10	17:15:30	8.0000	598.57	30.84	8.0000	596.56	30.76
12	2013/02/10	21:15:30	12.0000	611.25	31.05	12.0000	609.15	30.91
13	2013/02/11	01:15:30	16.0000	625.21	31.14	16.0000	622.95	30.99
14	2013/02/11	05:15:30	20.0000	632.57	31.19	20.0000	630.40	31.02
15	2013/02/11	09:15:30	24.0000	637.33	31.20	24.0000	635.17	31.03
16	2013/02/11	13:15:30	28.0000	641.57	31.21	28.0000	639.53	31.03
17	2013/02/11	17:15:30	32.0000	647.27	31.21	32.0000	644.97	31.03
18	2013/02/11	21:15:30	36.0000	651.36	31.20	36.0000	649.24	31.02
19	2013/02/12	01:15:30	40.0000	655.71	31.19	40.0000	653.57	31.02
20	2013/02/12	05:15:30	44.0000	660.02	31.18	44.0000	657.85	31.00
21	2013/02/12	09:15:30	48.0000	663.66	31.17	48.0000	661.42	30.98
22	2013/02/12	13:15:30	52.0000	668.00	31.16	52.0000	665.74	30.98
23	2013/02/12	17:15:30	56.0000	671.70	31.14	56.0000	669.45	30.96
24	2013/02/12	21:15:30	60.0000	675.59	31.13	60.0000	673.30	30.95
25	2013/02/13	01:15:30	64.0000	679.52	31.11	64.0000	677.16	30.92
26	2013/02/13	05:15:30	68.0000	682.63	31.09	68.0000	680.50	30.92
27	2013/02/13	09:15:30	72.0000	686.73	31.08	72.0000	684.71	30.90
28	2013/02/13	13:15:30	76.0000	690.24	31.06	76.0000	687.90	30.88
29	2013/02/13	17:15:30	80.0000	693.71	31.05	80.0000	691.53	30.87
30	2013/02/13	21:15:30	84.0000	697.48	31.03	84.0000	695.32	30.85
31	2013/02/14	01:15:30	88.0000	700.60	31.02	88.0000	698.39	30.84
32	2013/02/14	05:15:30	92.0000	703.93	31.00	92.0000	701.53	30.82
33	2013/02/14	09:15:30	96.0000	707.34	30.99	96.0000	705.11	30.81
34	2013/02/14	13:15:30	100.0000	710.08	30.97	100.0000	707.86	30.80
35	2013/02/14	17:15:30	104.0000	712.95	30.96	104.0000	710.74	30.78
36	2013/02/14	21:15:30	108.0000	716.68	30.94	108.0000	714.44	30.76
37	2013/02/15	01:15:30	112.0000	719.92	30.94	112.0000	717.55	30.75
38	2013/02/15	05:15:30	116.0000	722.88	30.92	116.0000	720.51	30.74
39	2013/02/15	09:15:30	120.0000	726.03	30.91	120.0000	723.81	30.72
40	2013/02/15	13:15:30	124.0000	728.53	30.90	124.0000	726.52	30.71

LOWER Serial Number: 40540 Start Date: 2013/02/10 09:15:30 Run Depth: 905.00

UPPER Serial Number: 40542 Start Date: 2013/02/10 09:15:30 Run Depth: 904.70

Print Filter: Print every 4 hour

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
41	2013/02/15	17:15:30	128.0000	731.59	30.88	128.0000	729.38	30.70
42	2013/02/15	21:15:30	132.0000	734.44	30.86	132.0000	732.22	30.69
43	2013/02/16	01:15:30	136.0000	737.21	30.85	136.0000	735.08	30.68
44	2013/02/16	05:15:30	140.0000	739.88	30.84	140.0000	737.82	30.66
45	2013/02/16	09:15:30	144.0000	742.51	30.82	144.0000	740.44	30.65
46	2013/02/16	13:15:30	148.0000	745.09	30.81	148.0000	742.97	30.63
47	2013/02/16	17:15:30	152.0000	747.64	30.80	152.0000	745.64	30.62
48	2013/02/16	21:15:30	156.0000	750.13	30.79	156.0000	748.13	30.61
49	2013/02/17	01:15:30	160.0000	752.53	30.78	160.0000	750.46	30.59
50	2013/02/17	05:15:30	164.0000	755.28	30.76	164.0000	753.01	30.58
51	2013/02/17	09:15:30	168.0000	757.59	30.76	168.0000	755.33	30.57
52	2013/02/17	13:15:30	172.0000	760.07	30.74	172.0000	757.76	30.56
53	2013/02/17	17:15:30	176.0000	762.34	30.73	176.0000	760.16	30.55
54	2013/02/17	21:15:30	180.0000	764.90	30.72	180.0000	762.68	30.54
55	2013/02/18	01:15:30	184.0000	767.30	30.71	184.0000	765.01	30.52
56	2013/02/18	05:15:30	188.0000	769.46	30.70	188.0000	767.21	30.51
57	2013/02/18	09:15:30	192.0000	771.63	30.69	192.0000	769.50	30.50
58	2013/02/18	13:15:30	196.0000	773.84	30.68	196.0000	771.82	30.49
59	2013/02/18	17:15:30	200.0000	776.37	30.67	200.0000	774.07	30.48
60	2013/02/18	21:15:30	204.0000	778.19	30.66	204.0000	776.22	30.47
61	2013/02/19	01:15:30	208.0000	780.35	30.65	208.0000	778.30	30.47
62	2013/02/19	05:15:30	212.0000	782.45	30.63	212.0000	780.21	30.45
63	2013/02/19	09:15:30	216.0000	784.56	30.62	216.0000	782.45	30.44
64	2013/02/19	13:15:30	220.0000	786.43	30.62	220.0000	784.44	30.43
65	2013/02/19	17:15:30	224.0000	788.85	30.60	224.0000	786.61	30.42
66	2013/02/19	21:15:30	228.0000	790.99	30.60	228.0000	788.88	30.41
67	2013/02/20	01:15:30	232.0000	792.83	30.59	232.0000	790.78	30.41
68	2013/02/20	05:15:30	236.0000	794.96	30.57	236.0000	792.97	30.39
69	2013/02/20	09:15:30	240.0000	797.24	30.57	240.0000	794.83	30.38
70	2013/02/20	13:15:30	244.0000	799.05	30.56	244.0000	796.81	30.38
71	2013/02/20	17:15:30	248.0000	801.36	30.55	248.0000	799.28	30.37
72	2013/02/20	21:15:30	252.0000	803.24	30.54	252.0000	801.01	30.36
73	2013/02/21	01:15:30	256.0000	805.16	30.53	256.0000	802.88	30.35
74	2013/02/21	05:15:30	260.0000	806.74	30.52	260.0000	804.83	30.34
75	2013/02/21	09:15:30	264.0000	808.86	30.51	264.0000	806.67	30.33
76	2013/02/21	13:15:30	268.0000	810.85	30.50	268.0000	808.63	30.32
77	2013/02/21	17:15:30	272.0000	812.78	30.49	272.0000	810.54	30.31
78	2013/02/21	21:15:30	276.0000	814.41	30.48	276.0000	812.44	30.30
79	2013/02/22	01:15:30	280.0000	816.49	30.47	280.0000	814.34	30.29
80	2013/02/22	05:15:30	284.0000	818.31	30.47	284.0000	816.36	30.29

LOWER Serial Number: 40540 Start Date: 2013/02/10 09:15:30 Run Depth: 905.00

UPPER Serial Number: 40542 Start Date: 2013/02/10 09:15:30 Run Depth: 904.70

Print Filter: Print every 4 hour

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
81	2013/02/22	09:15:30	288.0000	820.39	30.46	288.0000	818.19	30.28
82	2013/02/22	13:15:30	292.0000	822.17	30.45	292.0000	820.07	30.27
83	2013/02/22	17:15:30	296.0000	823.94	30.44	296.0000	821.63	30.26
84	2013/02/22	21:15:30	300.0000	825.90	30.43	300.0000	823.65	30.26
85	2013/02/23	01:15:30	304.0000	827.70	30.43	304.0000	825.45	30.24
86	2013/02/23	05:15:30	308.0000	829.81	30.42	308.0000	827.53	30.24
87	2013/02/23	09:15:30	312.0000	831.41	30.42	312.0000	829.22	30.23
88	2013/02/23	13:15:30	316.0000	833.51	30.40	316.0000	831.26	30.22
89	2013/02/23	17:15:30	320.0000	835.03	30.39	320.0000	833.06	30.21
90	2013/02/23	21:15:30	324.0000	836.89	30.38	324.0000	834.73	30.21
91	2013/02/24	01:15:30	328.0000	838.62	30.37	328.0000	836.40	30.20
92	2013/02/24	05:15:30	332.0000	840.39	30.37	332.0000	838.18	30.19
93	2013/02/24	09:15:30	336.0000	842.07	30.37	336.0000	839.93	30.18
94	2013/02/24	13:15:30	340.0000	844.00	30.36	340.0000	841.76	30.18
95	2013/02/24	17:15:30	344.0000	845.92	30.35	344.0000	843.82	30.17
96	2013/02/24	21:15:30	348.0000	847.80	30.34	348.0000	845.52	30.16
97	2013/02/25	01:15:30	352.0000	849.62	30.33	352.0000	847.36	30.16
98	2013/02/25	05:15:30	356.0000	851.25	30.33	356.0000	849.12	30.15
99	2013/02/25	09:15:30	360.0000	852.84	30.32	360.0000	850.79	30.15
100	2013/02/25	13:15:30	364.0000	854.52	30.31	364.0000	852.31	30.14
101	2013/02/25	17:15:30	368.0000	856.52	30.31	368.0000	854.22	30.13
102	2013/02/25	21:15:30	372.0000	857.85	30.30	372.0000	855.67	30.12
103	2013/02/26	01:15:30	376.0000	859.32	30.29	376.0000	857.18	30.11
104	2013/02/26	05:15:30	380.0000	861.14	30.28	380.0000	859.02	30.11
105	2013/02/26	09:15:30	384.0000	862.92	30.28	384.0000	860.72	30.10
106	2013/02/26	13:15:30	388.0000	864.12	30.27	388.0000	862.05	30.09
107	2013/02/26	17:15:30	392.0000	865.67	30.26	392.0000	863.63	30.09
108	2013/02/26	21:15:30	396.0000	867.39	30.26	396.0000	865.13	30.08
109	2013/02/27	01:15:30	400.0000	868.73	30.26	400.0000	866.81	30.08
110	2013/02/27	05:15:30	404.0000	871.09	30.25	404.0000	868.84	30.07
111	2013/02/27	09:15:30	408.0000	872.57	30.24	408.0000	870.67	30.07
112	2013/02/27	13:15:30	412.0000	874.10	30.23	412.0000	872.11	30.06
113	2013/02/27	17:15:30	416.0000	875.76	30.22	416.0000	873.74	30.05
114	2013/02/27	21:15:30	420.0000	877.21	30.22	420.0000	875.10	30.04
115	2013/02/28	01:15:30	424.0000	878.77	30.21	424.0000	876.49	30.04
116	2013/02/28	05:15:30	428.0000	880.05	30.21	428.0000	878.16	30.03
117	2013/02/28	09:15:30	432.0000	881.63	30.20	432.0000	879.54	30.03
118	2013/02/28	13:15:30	436.0000	883.29	30.19	436.0000	880.96	30.02
119	2013/02/28	17:15:30	440.0000	884.49	30.19	440.0000	882.25	30.02
120	2013/02/28	21:15:30	444.0000	887.12	30.18	444.0000	884.97	30.01

LOWER Serial Number: 40540 Start Date: 2013/02/10 09:15:30 Run Depth: 905.00

UPPER Serial Number: 40542 Start Date: 2013/02/10 09:15:30 Run Depth: 904.70

Print Filter: Print every 4 hour

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
121	2013/03/01	01:15:30	448.0000	888.53	30.18	448.0000	886.49	30.00
122	2013/03/01	05:15:30	452.0000	890.08	30.17	452.0000	887.88	29.99
123	2013/03/01	09:15:30	456.0000	891.83	30.17	456.0000	889.72	29.99
124	2013/03/01	13:15:30	460.0000	893.23	30.16	460.0000	891.01	29.98
125	2013/03/01	17:15:30	464.0000	894.77	30.16	464.0000	892.84	29.98
126	2013/03/01	21:15:30	468.0000	896.31	30.14	468.0000	893.97	29.97
127	2013/03/02	01:15:30	472.0000	897.86	30.14	472.0000	895.71	29.96
128	2013/03/02	05:15:30	476.0000	899.30	30.14	476.0000	897.05	29.96
129	2013/03/02	09:15:30	480.0000	900.81	30.14	480.0000	898.52	29.96
130	2013/03/02	13:15:30	484.0000	902.00	30.13	484.0000	899.83	29.95
131	2013/03/02	17:15:30	488.0000	903.33	30.12	488.0000	901.27	29.94
132	2013/03/02	21:15:30	492.0000	905.29	30.11	492.0000	903.21	29.94
133	2013/03/03	01:15:30	496.0000	906.99	30.11	496.0000	904.79	29.93
134	2013/03/03	05:15:30	500.0000	908.43	30.11	500.0000	906.19	29.93
135	2013/03/03	09:15:30	504.0000	909.75	30.10	504.0000	907.67	29.93
136	2013/03/03	13:15:30	508.0000	911.25	30.09	508.0000	909.20	29.91
137	2013/03/03	17:15:30	512.0000	912.47	30.09	512.0000	910.28	29.91
138	2013/03/03	21:15:30	516.0000	914.06	30.09	516.0000	911.90	29.91
139	2013/03/04	01:15:30	520.0000	915.59	30.08	520.0000	913.55	29.90
140	2013/03/04	05:15:30	524.0000	916.86	30.07	524.0000	914.65	29.89
141	2013/03/04	09:15:30	528.0000	918.29	30.07	528.0000	916.38	29.90
142	2013/03/04	13:15:30	532.0000	919.89	30.06	532.0000	917.69	29.89
143	2013/03/04	17:15:30	536.0000	921.30	30.06	536.0000	919.35	29.88
144	2013/03/04	21:15:30	540.0000	922.77	30.05	540.0000	920.81	29.88
145	2013/03/05	01:15:30	544.0000	924.54	30.05	544.0000	922.17	29.87
146	2013/03/05	05:15:30	548.0000	925.59	30.04	548.0000	923.36	29.86
147	2013/03/05	09:15:30	552.0000	926.90	30.04	552.0000	924.70	29.86
148	2013/03/05	13:15:30	556.0000	928.42	30.03	556.0000	926.27	29.85
149	2013/03/05	17:15:30	560.0000	929.82	30.03	560.0000	927.51	29.85
150	2013/03/05	21:15:30	564.0000	931.13	30.02	564.0000	928.86	29.85
151	2013/03/06	01:15:30	568.0000	932.34	30.02	568.0000	930.36	29.84
152	2013/03/06	05:15:30	572.0000	933.83	30.01	572.0000	931.68	29.84
153	2013/03/06	09:15:30	576.0000	935.11	30.01	576.0000	932.89	29.84
154	2013/03/06	13:15:30	580.0000	936.34	30.00	580.0000	934.28	29.83
155	2013/03/06	17:15:30	584.0000	937.78	30.00	584.0000	935.77	29.83
156	2013/03/06	21:15:30	588.0000	939.13	29.99	588.0000	937.07	29.81
157	2013/03/07	01:15:30	592.0000	940.58	29.99	592.0000	938.41	29.82
158	2013/03/07	05:15:30	596.0000	941.64	29.98	596.0000	939.56	29.81
159	2013/03/07	09:15:30	600.0000	943.03	29.97	600.0000	941.21	29.80
160	2013/03/07	13:15:30	604.0000	944.43	29.97	604.0000	942.36	29.80

LOWER Serial Number: 40540 Start Date: 2013/02/10 09:15:30 Run Depth: 905.00

UPPER Serial Number: 40542 Start Date: 2013/02/10 09:15:30 Run Depth: 904.70

Print Filter: Print every 4 hour

RESERVOIR PRESSURE SURVEY

	LOWER Date yyyy/mm/dd	LOWER Clk Time hh:mm:ss	LOWER Time hr	LOWER Pres. kPa(a)	LOWER Temp. °C	UPPER Time hr	UPPER Pres. kPa(a)	UPPER Temp. °C
161	2013/03/07	17:15:30	608.0000	945.91	29.97	608.0000	943.64	29.79
162	2013/03/07	21:15:30	612.0000	947.31	29.96	612.0000	945.18	29.79
163	2013/03/08	01:15:30	616.0000	948.29	29.96	616.0000	946.35	29.79
164	2013/03/08	05:15:30	620.0000	949.62	29.96	620.0000	947.60	29.78
165	2013/03/08	09:15:30	624.0000	950.87	29.95	624.0000	948.84	29.78
166	2013/03/08	13:15:30	628.0000	952.17	29.95	628.0000	950.00	29.77
167	2013/03/08	17:15:30	632.0000	953.27	29.94	632.0000	951.17	29.77
168	2013/03/08	21:15:30	636.0000	954.21	29.94	636.0000	952.30	29.76
169	2013/03/09	01:15:30	640.0000	955.63	29.94	640.0000	953.64	29.76
170	2013/03/09	05:15:30	644.0000	957.08	29.93	644.0000	954.86	29.75
171	2013/03/09	09:15:30	648.0000	958.38	29.93	648.0000	956.51	29.75
172	2013/03/09	13:15:30	652.0000	959.65	29.92	652.0000	957.66	29.74
173	2013/03/09	17:15:30	656.0000	960.86	29.92	656.0000	958.69	29.74
174	2013/03/09	21:15:30	660.0000	962.25	29.91	660.0000	959.97	29.73
175	2013/03/10	01:15:30	664.0000	963.49	29.91	664.0000	961.23	29.73
176	2013/03/10	05:15:30	668.0000	965.10	29.91	668.0000	962.87	29.73
177	2013/03/10	09:15:30	672.0000	966.18	29.90	672.0000	964.08	29.73
178	2013/03/10	12:22:30	675.1167	967.23	29.89	675.1167	965.05	29.72
179	2013/03/10	12:22:30	675.1167	FINAL PRESSURE, UNSETTING PLUG				
180	2013/03/10	12:23:00	675.1250	967.08	29.90	675.1250	2055.91	29.77
181	2013/03/10	12:34:00	675.3083	1763.86	29.07	675.3083	1632.88	28.86
182	2013/03/10	12:34:00	675.3083	PULL WR PLUG AND RECORDERS FROM WELL WITH TBG				
183	2013/03/10	12:34:30	675.3167	1384.26	28.98	675.3167	1542.19	28.69
184	2013/03/10	13:15:30	676.0000	112.59	23.33	676.0000	111.21	23.54
185	2013/03/10	14:15:00	676.9917	105.59	-4.84	676.9917	104.44	-4.44
186	2013/03/10	14:15:00	676.9917	RECORDERS @ SURFACE				

LOWER Serial Number: 40540 Start Date: 2013/02/10 09:15:30 Run Depth: 905.00

UPPER Serial Number: 40542 Start Date: 2013/02/10 09:15:30 Run Depth: 904.70

Print Filter: Print every 4 hour



DATE: February 10 - March 10, 2013	COMPANY: Tundra Oil & Gas Partnership
WELLNAME: Tundra Daly Prov. 7-22-09-29WPM	ADDRESS: Virden, MB
LOCATION: 7-22-9-29WPM	UWI: 102/07-22-09-29W1/00
FIELD: Daly Prov.	FORMATION: Bakken / Lodgepole
CO HQ REP: Craig Lane	PHONE: (204)748-4409
FIELD REP: Brent Flannery	PHONE: (204)851-5013
REPORTS TO (NAME & EMAIL ADDRESS): Craig Lane - craig.lane@tundraoilandgas.com	

STATUS: oil well (work over)		TEST TYPE: build up
ESTIMATED H2S CONTENT: <10 ppm		ESTIMATED CO2 CONTENT: n/a
PRODUCING THROUGH: tubing		SHUT IN TIME/DATE: Bakken: 09:35 February 10, 2013 Lodgepole: 12:12 February 10, 2013
KOP: n/a	TVD: 940.0 mKB	LICENCE #: 5169
PBTD: 931.9 mKB	TD: 940.0 mKB	WELL TYPE: vertical
CASING SIZE: 114.3 mm	CSG WEIGHT: 14.14 kg/m	CSG DEPTH: 940 mKB
TUBING SIZE: none	TBG WEIGHT: n/a	TBG DEPTH: n/a
Elevations KB: 533.7 m	GRD: 529.7 m	CF: 529.7 m

PRODUCING INTERVAL

TYPE: Perforations	SIZE: n/a	INTERVAL: Lodgepole: 804.0 - 810.0 mKB Bakken: 909.5 - 913.0 mKB
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RECORDER INFORMATION

TOP S/N: Bakken: 40542 Lodgepole: 40435	FILE NAME: 7-22-9-29w1,6757.hp_bakken 7-22-9-29w1,6757.hp_lodgepole	RANGE: 0 - 20,680 kPa
BOTTOM S/N: Bakken: 40540 Lodgepole: 40439	FILE NAME: 7-22-9-29w1,6757.hp_bakken NO DATA COLLECTED FROM BOTTOM RECORDER	RANGE: 0 - 20,680 kPa
TOP BATTERY S/N: n/a		BOTTOM BATTERY S/N: n/a
CONNECT TIME: Bakken: (40542 & 40540) 09:15 Feb 10/13 Lodgepole: (40435) 12:10 Feb 10/13		DISCONNECT TIME: Bakken: (40542 & 40540) 15:33 Mar 10/13 Lodgepole: (40435) 12:09 Mar 10, 2013

SURFACE TEMP: -6 deg C	LEASE CONDITION: good
WIRELINE OPERATOR: Bart Royan	PHONE: 306-421-9700
WIRELINE ASSISTANT: n/a	
DIRECTIONS: From highway junction #256 & 255 at Cromer: go 6.4km west on hwy #255, 2.4km on road 171W, west 0.6km on road #51N, north into well.	

DWG WELL HEAD PRESSURES:

TUBING (before survey): 0 kPa	CASING (before survey): 0 kPa
TUBING (after survey): 0 kPa	CASING (after survey): 0 kPa

FLUID LEVEL: n/a	RUN DEPTH: Bakken: 905.0 mKB Lodgepole: 802.5 mKB
TIME ON BOTTOM: Bakken: 09:31 Feb 10, 2013 Lodgepole: 12:11 Feb 10, 2013	TIME OFF BOTTOM: Bakken: 13:30 Mar 10, 2013 Lodgepole: 11:17 Mar 10, 2013

GRADIENT STOPS

DEPTH mKB:	none	FROM:	n/a	UNTIL:	n/a
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COMMENTS:

DESCRIPTION OF WORK DONE:

February 10, 2013

09:15 Pressure trigger activated on 3K KC-2 recorder (40542 & 40540) as they ran into the well below a Tryton WR plug to be set above the Bakken Perfs.

09:31 Recorders are over the Bakken perfs.

09:35 WR is set to begin build up.

12:10 Pressure trigger activated on 3K KC-2 recorder (40435) as it was ran into the well below a Tryton WR plug to be set above the Lodgepole Perf.

12:11 Recorders are over the Lodgepole perfs.

12:12 WR is set to begin build up.

March 10, 2013

11:02 WR over Lodgepole Perfs is unset.

11:17 WR and recorders are pulled from the well with tubing by the service rig.

11:26 Recorders are at surface.

12:09 Download data from recorders.

13:23 WR over Bakken Perfs is unset.

13:34 WR and recorders are pulled from the well with tubing by the service rig.

14:22 Recorders are at surface.

15:33 Download data from recorders and do preliminary report.

Daly Unit No. 7

EOR Waterflood Project

Planned Corrosion Control Program **

Source Well

- Continuous downhole corrosion inhibition
- Continuous surface corrosion inhibitor injection
- Downhole scale inhibitor injection
- Corrosion resistant valves and internally coated surface piping

Pipelines

- Source well to 3-4-8-29 Water Plant - Fiberglass
- New High Pressure Pipeline to Unit 6 injection well – 2000 psi high pressure Fiberglass

Facilities

- 3-4-8-29 Water Plant and New Injection Pump Station
 - Plant piping – 600 ANSI schedule 80 pipe, Fiberglass or Internally coated
 - Filtration – Stainless steel
 - Pumping – Ceramic plungers, stainless steel disc valves
 - Tanks – Fiberglass shell, corrosion resistant valves

Injection Wellhead / Surface Piping

- Corrosion resistant valves and internally coated surface piping

Injection Well

- Casing cathodic protection where required
- Wetted surfaces coated downhole packer
- Corrosion inhibited water in the annulus between tubing / casing
- Internally coated tubing surface to packer
- Surface freeze protection of annular fluid
- Corrosion resistant master valve
- Corrosion resistant pipeline valve

Producing Wells

- Casing cathodic protection where required
- Downhole batch corrosion inhibition as required
- Downhole scale inhibitor injection as required

APPENDIX 12

** subject to final design and engineering