



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

P.O. Box 256
Claffin ,Kansas67525

ATTN: Wyatt Urban

Concept Commercial #

15-15s-30w

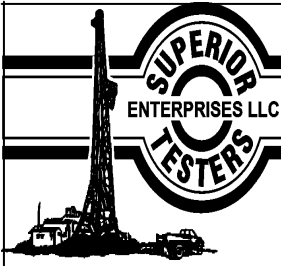
Start Date: 2014.01.07 @ 00:00:00

End Date: 2014.01.07 @ 00:00:00

Job Ticket #: DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2014.01.07 @ 17:55:28



DRILL STEM TEST REPORT

RJM Company
 P.O. Box 256
 Claflin ,Kansas67525
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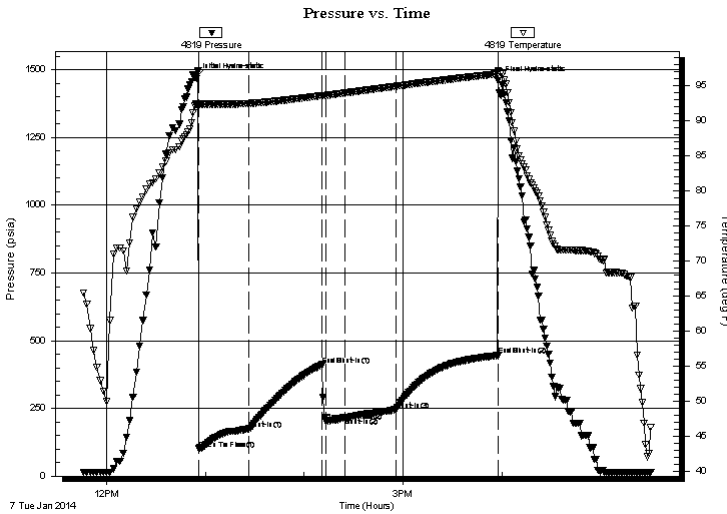
15-15s-30w
Concept Commercial #
 Job Ticket: **DST#: 1**
 Test Start: 2014.01.07 @ 00:00:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3320-59
Interval: 2905.00 ft (KB) To 2974.00 ft (KB) (TVD)
 Reference Elevations: 1839.00 ft (KB)
 Total Depth: 2974.00 ft (KB) (TVD) 1832.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 4819 Inside
 Press@RunDepth: 445.35 psia @ 2970.07 ft (KB) Capacity: 5000.00 psia
 Start Date: 2014.01.07 End Date: 2014.01.07 Last Calib.: 2014.01.07
 Start Time: 11:45:00 End Time: 17:30:30 Time On Btm: 2014.01.07 @ 12:54:00
 Time Off Btm: 2014.01.07 @ 15:58:00

TEST COMMENT: 1st Opening 30 Minutes--Strong blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes
 1st Shut-In 45 Minutes-Good blow back
 2nd Opening 45 Minutes -Strong blow bottom of a 5 gallon bucket in 1 1/2 minutes gas in 11 minutes
 2nd Shut-In 60 Minutes- Fair blow back



PRESSURE SUMMARY

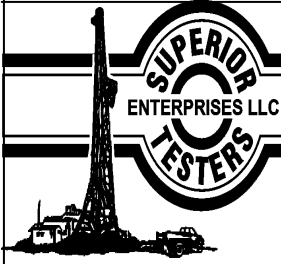
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1471.66	92.34	Initial Hydro-static
2	100.61	92.15	Open To Flow (1)
32	173.83	92.48	Shut-In(1)
77	411.44	93.63	End Shut-In(1)
80	202.22	93.64	Open To Flow (2)
91	215.97	93.98	Shut-In(2)
122	244.82	94.93	Shut-In(3)
184	445.35	96.71	End Shut-In(2)
184	1459.68	97.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface	0.00
40.00	slightly oi and gas cut mud	0.56
0.00	5%Gas 15%Oil 80%Mud	0.00
60.00	slightly oil and gas cut mud	0.84
0.00	20%Gas 20%Oil 60%Mud	0.00
60.00	Gassy oil cut mud	0.84

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



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 Claflin, Kansas 67525
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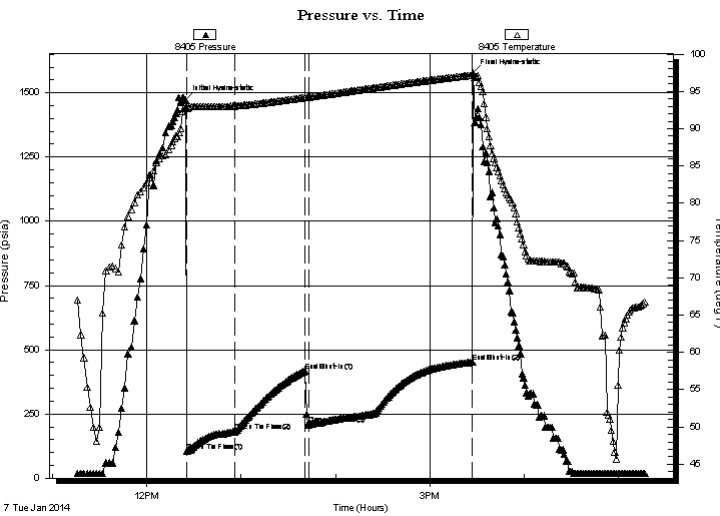
15-15s-30w
Concept Commercial #
 Job Ticket: **DST#: 1**
 Test Start: 2014.01.07 @ 00:00:00

GENERAL INFORMATION:

Formation: **Toronto**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **2905.00 ft (KB) To 2974.00 ft (KB) (TVD)**
 Total Depth: 2974.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Gene Budig
 Unit No: 3320-59
 Reference Elevations: 1839.00 ft (KB)
 1832.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 452.04 psia @ 2971.07 ft (KB) Capacity: 5000.00 psia
 Start Date: 2014.01.07 End Date: 2014.01.07 Last Calib.: 2014.01.07
 Start Time: 11:15:00 End Time: 17:17:00 Time On Btm: 2014.01.07 @ 12:24:30
 Time Off Btm: 2014.01.07 @ 15:27:30

TEST COMMENT: 1st Opening 30 Minutes--Strong blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes
 1st Shut-In 45 Minutes-Good blow back
 2nd Opening 45 Minutes -Strong blow bottom of a 5 gallon bucket in 1 1/2 minutes gas in 11 minutes
 2nd Shut-In 60 Minutes- Fair blow back



PRESSURE SUMMARY

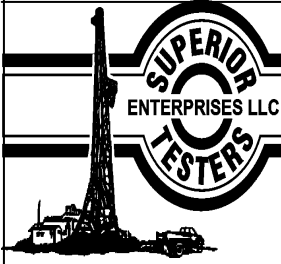
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1472.24	92.81	Initial Hydro-static
2	106.53	92.70	Open To Flow (1)
32	180.84	93.03	Open To Flow (2)
77	417.80	94.18	End Shut-In(1)
79	208.22	94.23	Open To Flow (3)
183	452.04	97.18	End Shut-In(2)
183	1576.87	97.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface	0.00
40.00	slightly oi and gas cut mud	0.56
0.00	5%Gas 15%Oil 80%Mud	0.00
60.00	slightly oil and gas cut mud	0.84
0.00	20%Gas 20%Oil 60%Mud	0.00
60.00	Gassy oil cut mud	0.84

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company

15-15s-30w

P.O. Box 256
Clafin ,Kansas67525

Concept Commercial #

Job Ticket: **DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.01.07 @ 00:00:00

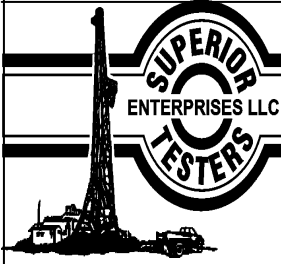
Tool Information

Drill Pipe:	Length: 2887.00 ft	Diameter: 3.80 inches	Volume: 40.50 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 40.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	2905.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.07 ft				
Tool Length:	97.07 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			2882.00	
Hydraulic Tool	5.00			2887.00	
Safety Joint	2.00			2889.00	
Jars	6.00			2895.00	
Packer	5.00			2900.00	28.00 Bottom Of Top Packer
Packer	5.00			2905.00	
Anchor	0.00			2905.00	
Change Over Sub	0.75			2905.75	
Drill Pipe	31.57			2937.32	
Change Over Sub	0.75			2938.07	
Anchor	31.00			2969.07	
Recorder	1.00	4819	Inside	2970.07	
Recorder	1.00	8405	Inside	2971.07	
Bullnose	3.00			2974.07	69.07 Bottom Packers & Anchor

Total Tool Length: 97.07



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

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Job Ticket: **DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.01.07 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 49.00 sec/qt
Water Loss: 8.00 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	Gas to surface	0.000
40.00	slightly oi and gas cut mud	0.561
0.00	5%Gas 15%Oil 80%Mud	0.000
60.00	slightly oil and gas cut mud	0.842
0.00	20%Gas 20%Oil 60%Mud	0.000
60.00	Gassy oil cut mud	0.842
0.00	50%Gas 30%Oil 20%Mud	0.000
120.00	Gassy Slightly mud cut oil	1.683
0.00	60%Gas 35%Oil 5%Mud	0.000
240.00	Slightly mud cut gassy oil	3.367
0.00	35%Gas 63%Oil 2%Mud	0.000

Total Length: 520.00 ft Total Volume: 7.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

