



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

P.O. Box 256
Claffin ks, 67525-0256

ATTN: Jim Musgrove

Kevin Wirth #1

25/16s/14w/Barton

Start Date: 2014.01.22 @ 16:55:00

End Date: 2014.01.22 @ 23:50:30

Job Ticket #: 18233 DST #: 3

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

Printed: 2014.01.23 @ 00:03:57

RJM Company
25/16s/14w/Barton
Kevin Wirth #1
DST # 3
Tarkeo Sand
2014.01.22



DRILL STEM TEST REPORT

RJM Company

25/16s/14w/Barton

P.O. Box 256
Clafin ks, 67525-0256

Kevin Wirth #1

Job Ticket: 18233

DST#: 3

ATTN: Jim Musgrove

Test Start: 2014.01.22 @ 16:55:00

GENERAL INFORMATION:

Formation: **Tarkeo Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:18:00

Time Test Ended: 23:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3325/50/Great Bend

Interval: 3384.00 ft (KB) To 3457.00 ft (KB) (TVD)

Reference Elevations: 1977.00 ft (KB)

Total Depth: 3457.00 ft (KB) (TVD)

1968.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 6663

Inside

Press @ Run Depth: 89.94 psia @ 3452.96 ft (KB)

Capacity: 5000.00 psia

Start Date: 2014.01.22

End Date:

2014.01.22

Last Calib.:

2014.01.22

Start Time: 16:55:00

End Time:

23:50:30

Time On Btm:

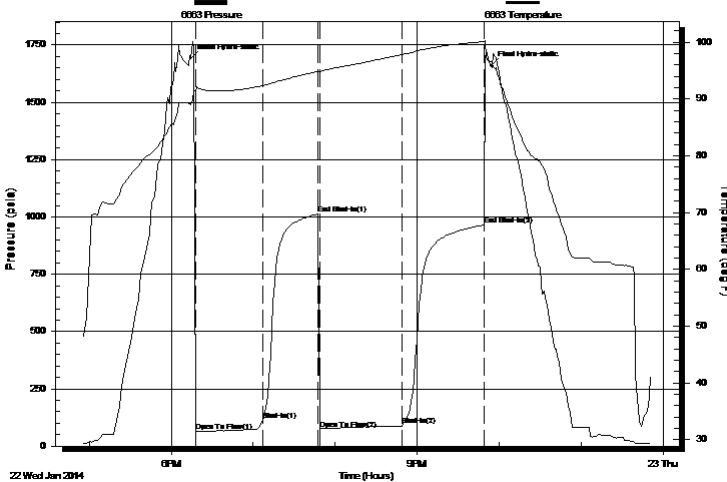
2014.01.22 @ 18:14:30

Time Off Btm:

2014.01.22 @ 21:54:00

TEST COMMENT: 1st Open/ 45 Minutes. Weak blow built to 7.5 inches into 5 gallon bucket of deisel.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 60 Minutes. Weak blow built to 8 inches into 5 gallon bucket of deisel.
2nd Shut In/ 60 Minutes. No blow back.

Pressure vs. Time



PRESSURE SUMMARY

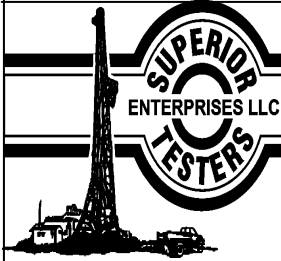
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1692.52	89.08	Initial Hydro-static
4	62.98	91.17	Open To Flow (1)
53	113.41	92.37	Shut-In(1)
93	1012.74	94.85	End Shut-In(1)
94	74.72	94.81	Open To Flow (2)
155	89.94	97.84	Shut-In(2)
215	965.05	100.10	End Shut-In(2)
220	1658.37	96.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Clean Oil.	0.14
55.00	40% Oil, 60% Mud	0.77
0.00	Oil gravity 42 corrected	0.00

Gas Rates

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



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 P.O. Box 256
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 ATTN: Jim Musgrove

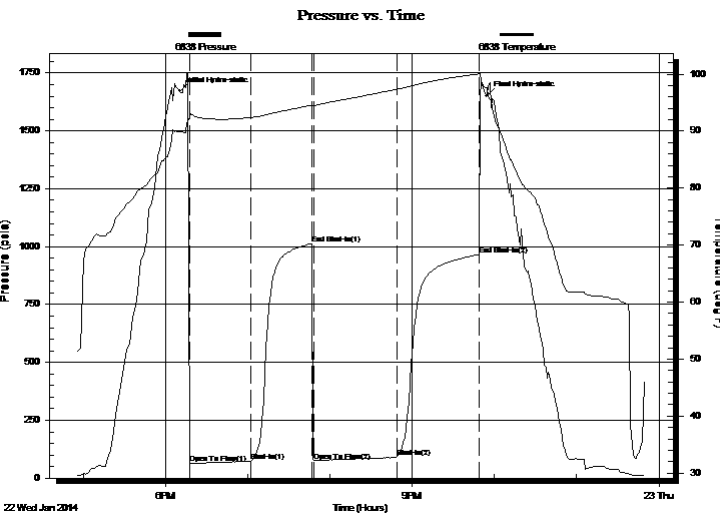
25/16s/14w/Barton
Kevin Wirth #1
 Job Ticket: 18233 **DST#: 3**
 Test Start: 2014.01.22 @ 16:55:00

GENERAL INFORMATION:

Formation: **Tarkeo Sand**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 18:18:00 Tester: Shane Konzem
 Time Test Ended: 23:50:30 Unit No: 3325/50/Great Bend
 Interval: **3384.00 ft (KB) To 3457.00 ft (KB) (TVD)** Reference Elevations: 1977.00 ft (KB)
 Total Depth: 3457.00 ft (KB) (TVD) 1968.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

Serial #: 6838 Outside
 Press @ Run Depth: 965.45 psia @ 3453.96 ft (KB) Capacity: 5000.00 psia
 Start Date: 2014.01.22 End Date: 2014.01.22 Last Calib.: 2014.01.23
 Start Time: 16:55:00 End Time: 23:50:00 Time On Btm: 2014.01.22 @ 18:10:30
 Time Off Btm: 2014.01.22 @ 21:54:30

TEST COMMENT: 1st Open/ 45 Minutes. Weak blow built to 7.5 inches into 5 gallon bucket of deisel.
 1st Shut In/ 45 Minutes. No blow back.
 2nd Open/ 60 Minutes. Weak blow built to 8 inches into 5 gallon bucket of deisel.
 2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1670.74	89.94	Initial Hydro-static
7	62.78	92.58	Open To Flow (1)
52	72.92	92.40	Shut-In(1)
97	1013.27	94.58	End Shut-In(1)
98	74.63	94.51	Open To Flow (2)
158	89.52	97.34	Shut-In(2)
219	965.45	100.04	End Shut-In(2)
224	1650.75	97.60	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	100% Clean Oil.	0.14
55.00	40% Oil, 60% Mud	0.77
0.00	Oil gravity 42 corrected	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company

25/16s/14w/Barton

P.O. Box 256
Clafin ks, 67525-0256

Kevin Wirth #1

Job Ticket: 18233

DST#: 3

ATTN: Jim Musgrove

Test Start: 2014.01.22 @ 16:55:00

Tool Information

Drill Pipe:	Length: 3380.00 ft	Diameter: 3.80 inches	Volume: 47.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 47.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3384.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.96 ft			
Tool Length:	92.96 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3369.00	
Hydraulic Tool	5.00			3374.00	
Packer	5.00			3379.00	20.00 Bottom Of Top Packer
Packer	5.00			3384.00	
Change Over Sub	0.75			3384.75	
Drill Pipe	31.46			3416.21	
Change Over Sub	0.75			3416.96	
Anchor	35.00			3451.96	
Recorder	1.00	6663	Inside	3452.96	
Recorder	1.00	6838	Outside	3453.96	
Bullnose	3.00			3456.96	72.96 Bottom Packers & Anchor

Total Tool Length: 92.96



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FLUID SUMMARY

RJM Company

25/16s/14w/Barton

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Kevin Wirth #1

Job Ticket: 18233

DST#: 3

ATTN: Jim Musgrove

Test Start: 2014.01.22 @ 16:55:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 48.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 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
10.00	100% Clean Oil.	0.140
55.00	40% Oil, 60% Mud	0.772
0.00	Oil gravity 42 corrected	0.000

Total Length: 65.00 ft Total Volume: 0.912 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

