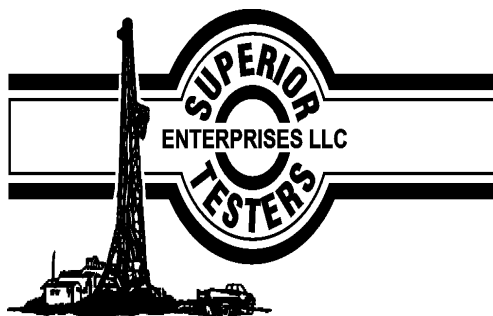




DRILL STEM TEST REPORT

Prepared For: **RJM Company**

P.O.Box 256
Claflin Ks, 67525-0256

ATTN: Jim Musgrove

Hammeke #1

13/19s/12w/Barton

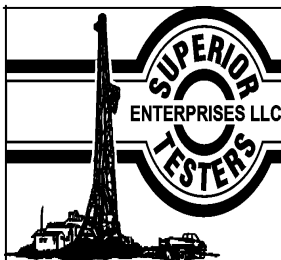
Start Date: 2013.07.24 @ 21:50:00

End Date: 2013.07.25 @ 02:56:30

Job Ticket #: 18421 DST #: 4

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

Printed: 2013.07.24 @ 02:32:24



DRILL STEM TEST REPORT

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

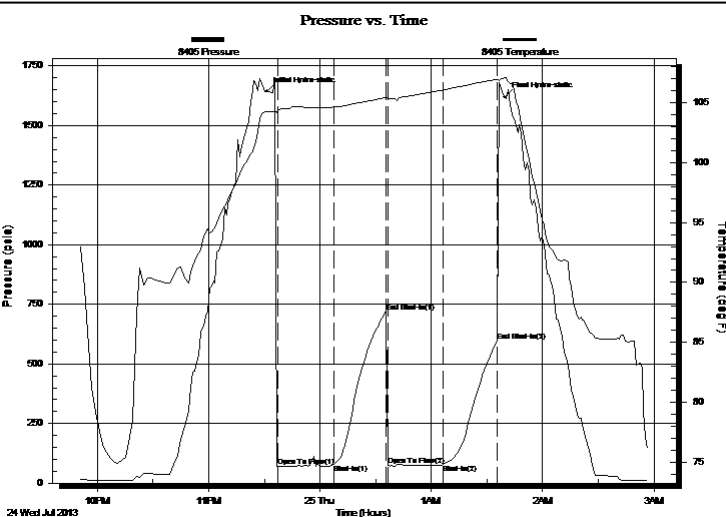
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18421 **DST#: 4**
Test Start: 2013.07.24 @ 21:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:37:00
Time Test Ended: 02:56:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Interval: **3336.00 ft (KB) To 3412.00 ft (KB) (TVD)**
Reference Elevations: 1824.00 ft (KB)
Total Depth: 3412.00 ft (KB) (TVD) 1815.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 9.00 ft

Serial #: 8405 Inside
Press@RunDepth: 78.81 psia @ 3408.17 ft (KB) Capacity: 5000.00 psia
Start Date: 2013.07.24 End Date: 2013.07.25 Last Calib.: 2013.07.24
Start Time: 21:50:00 End Time: 02:56:30 Time On Btm: 2013.07.24 @ 23:31:30
Time Off Btm: 2013.07.25 @ 01:39:30

TEST COMMENT: 1st Open/ 30 Minutes. Weak surface blow . Died after 1 minute.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow , flushed tool and gained a weak surface blow that died in 27 minutes.
2nd Shut In/ 30 Minutes. No blow .



PRESSURE SUMMARY

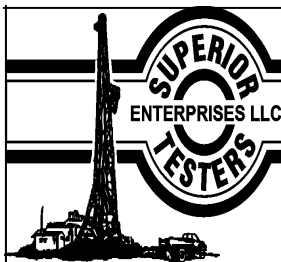
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1642.78	104.28	Initial Hydro-static
6	70.36	104.37	Open To Flow (1)
36	79.44	104.65	Shut-In(1)
64	719.77	105.42	End Shut-In(1)
65	73.26	105.31	Open To Flow (2)
95	78.81	106.08	Shut-In(2)
124	594.94	106.97	End Shut-In(2)
128	1619.21	107.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas.	0.00
2.00	Clean oil	0.03
29.00	10% Oil, 90% mud.	0.41

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

RJM Company
P.O.Box 256
Claflin Ks, 67525-0256
ATTN: Jim Musgrove

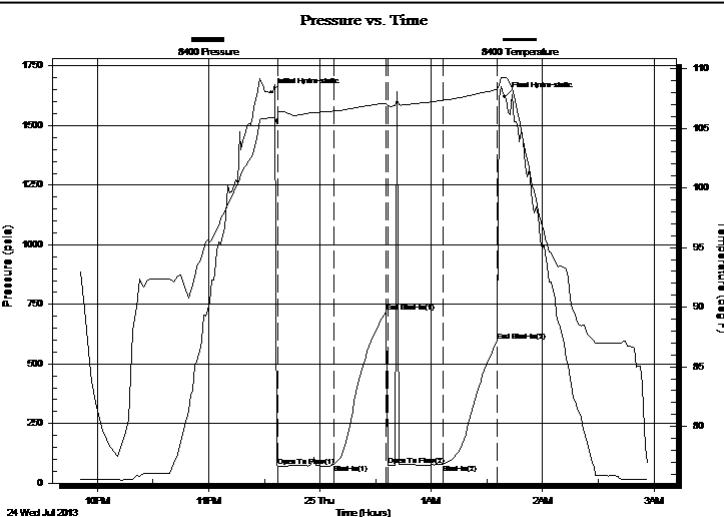
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18421 **DST#: 4**
Test Start: 2013.07.24 @ 21:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:37:00
Time Test Ended: 02:56:30
Interval: **3336.00 ft (KB) To 3412.00 ft (KB) (TVD)**
Total Depth: 3412.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Reference Elevations: 1824.00 ft (KB)
1815.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8400 Outside
Press@RunDepth: 594.01 psia @ 3409.17 ft (KB) Capacity: 5000.00 psia
Start Date: 2013.07.24 End Date: 2013.07.25 Last Calib.: 2013.07.24
Start Time: 21:50:00 End Time: 02:56:30 Time On Btm: 2013.07.24 @ 23:33:30
Time Off Btm: 2013.07.25 @ 01:39:30

TEST COMMENT: 1st Open/ 30 Minutes. Weak surface blow . Died after 1 minute.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow , flushed tool and gained a weak surface blow that died in 27 minutes.
2nd Shut In/ 30 Minutes. No blow .



PRESSURE SUMMARY

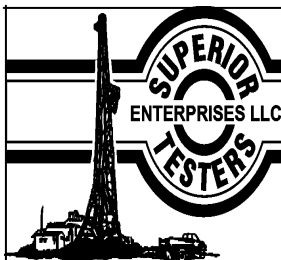
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1640.12	105.87	Initial Hydro-static
4	70.83	106.32	Open To Flow (1)
34	79.64	106.44	Shut-In(1)
62	718.55	107.11	End Shut-In(1)
63	75.27	106.86	Open To Flow (2)
93	79.29	107.35	Shut-In(2)
122	594.01	108.24	End Shut-In(2)
126	1621.75	109.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas.	0.00
2.00	Clean oil	0.03
29.00	10% Oil, 90% mud.	0.41

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18421

DST#: 4

ATTN: Jim Musgrove

Test Start: 2013.07.24 @ 21:50:00

Tool Information

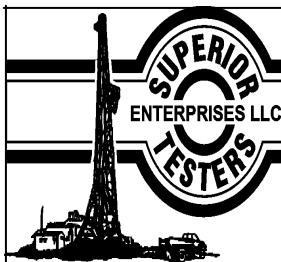
Drill Pipe:	Length:	3334.00 ft	Diameter:	3.80 inches	Volume:	46.77 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	52000.00 lb
					Total Volume:	46.77 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft							
Depth to Top Packer:	3336.00 ft							
Depth to Bottom Packer:	ft							
Interval between Packers:	76.17 ft							
Tool Length:	97.17 ft							
Number of Packers:	2		Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3316.00	
Shut-In Tool	5.00			3321.00	
Hydroic Tool	5.00			3326.00	
Packer	5.00			3331.00	21.00 Bottom Of Top Packer
Packer	5.00			3336.00	
Perforations	5.00			3341.00	
Change Over Sub	0.75			3341.75	
Drill Pipe	31.67			3373.42	
Change Over Sub	0.75			3374.17	
Perforations	33.00			3407.17	
Recorder	1.00	8405	Inside	3408.17	
Recorder	1.00	8400	Outside	3409.17	
Bullnose	3.00			3412.17	76.17 Bottom Packers & Anchor

Total Tool Length: 97.17



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

13/19s/12w/Barton

P.O.Box 256
Claflin Ks, 67525-0256

Hammeke #1

Job Ticket: 18421

DST#: 4

ATTN: Jim Musgrove

Test Start: 2013.07.24 @ 21:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 9.80 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psia

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas.	0.000
2.00	CLea n oil	0.028
29.00	10% Oil, 90% mud.	0.407

Total Length: 31.00 ft

Total Volume: 0.435 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

