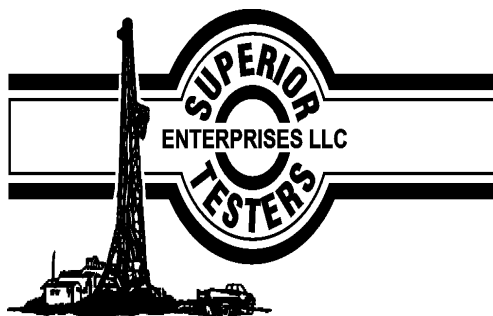




DRILL STEM TEST REPORT

Prepared For: **RJM Company**

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

ATTN: Jim Musgrove

Hammeke #1

13/19s/12w/Barton

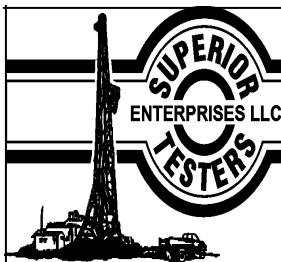
Start Date: 2013.07.23 @ 04:04:00

End Date: 2013.07.23 @ 10:31:30

Job Ticket #: 18420 DST #: 3

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

Printed: 2013.07.23 @ 10:56:57



DRILL STEM TEST REPORT

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

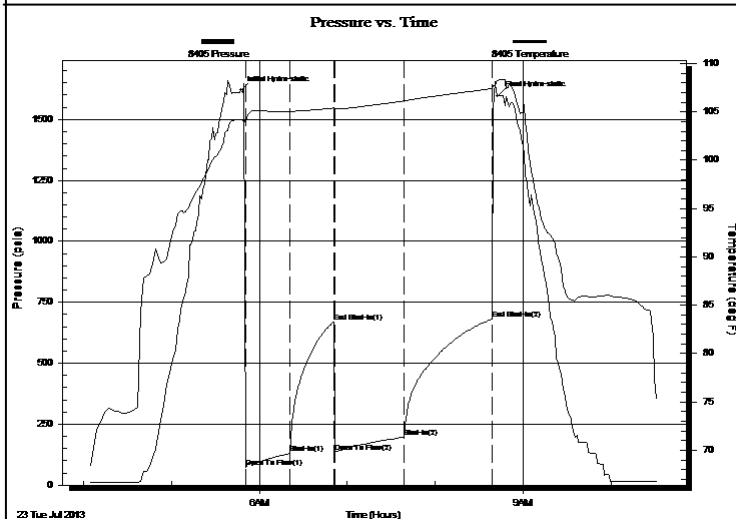
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18420 **DST#: 3**
Test Start: 2013.07.23 @ 04:04:00

GENERAL INFORMATION:

Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:50:30
Time Test Ended: 10:31:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Interval: **3254.00 ft (KB) To 3326.00 ft (KB) (TVD)**
Reference Elevations: 1824.00 ft (KB)
Total Depth: 3326.00 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: 197.25 psia @ 3322.53 ft (KB) Capacity: 5000.00 psia
Start Date: 2013.07.23 End Date: 2013.07.23 Last Calib.: 2013.07.23
Start Time: 04:04:00 End Time: 10:31:30 Time On Btm: 2013.07.23 @ 05:47:30
Time Off Btm: 2013.07.23 @ 08:42:30

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to bottom of 5 gallon bucket in 18 minutes.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 45 Minutes. Fair blow built to 11 inches in 5 gallon bucket.
2nd Shut In/ 60 Minutes. No blow back.



PRESSURE SUMMARY

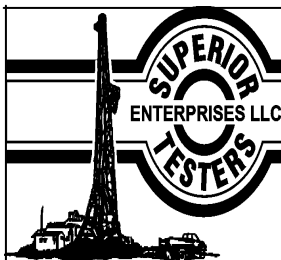
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1619.10	104.15	Initial Hydro-static
3	72.23	103.91	Open To Flow (1)
33	129.83	105.01	Shut-In(1)
63	669.18	105.39	End Shut-In(1)
64	134.52	105.30	Open To Flow (2)
111	197.25	106.12	Shut-In(2)
172	682.11	107.41	End Shut-In(2)
175	1597.45	108.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
1.00	Clean Oil	0.01
30.00	25% Water, 75% Mud	0.42
63.00	45% water, 55% mud	0.88
63.00	10% mud, 90% water	0.88
63.00	5% mud, 95% water	0.88

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: 18420 **DST#: 3**
Test Start: 2013.07.23 @ 04:04:00

GENERAL INFORMATION:

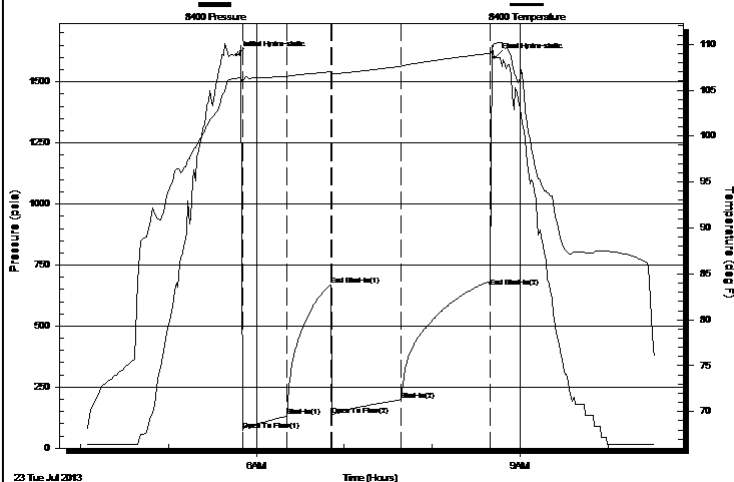
Formation: **LKC "H-K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:50:30
Time Test Ended: 10:31:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 3330/30/Great Bend
Interval: **3254.00 ft (KB) To 3326.00 ft (KB) (TVD)**
Reference Elevations: 1824.00 ft (KB)
Total Depth: 3326.00 ft (KB) (TVD)
1815.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor
KB to GR/CF: 9.00 ft

Serial #: 8400 Outside

Press@RunDepth: 660.59 psia @ 3323.53 ft (KB)
Capacity: 5000.00 psia
Start Date: 2013.07.23 End Date: 2013.07.23 Last Calib.: 2013.07.23
Start Time: 04:04:00 End Time: 10:31:30 Time On Btm: 2013.07.23 @ 05:46:30
Time Off Btm: 2013.07.23 @ 08:42:30

TEST COMMENT: 1st Open/ 30 Minutes. Fair blow built to bottom of 5 gallon bucket in 18 minutes.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 45 Minutes. Fair blow built to 11 inches in 5 gallon bucket.
2nd Shut In/ 60 Minutes. No blow back.

Pressure vs. Time



PRESSURE SUMMARY

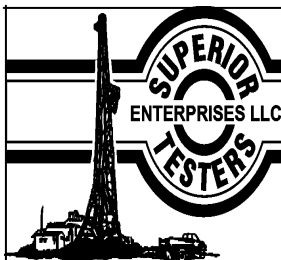
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1609.12	106.29	Initial Hydro-static
4	72.90	105.97	Open To Flow (1)
34	130.00	106.46	Shut-In(1)
64	669.30	107.01	End Shut-In(1)
65	135.02	106.81	Open To Flow (2)
113	198.34	107.59	Shut-In(2)
173	660.59	109.01	End Shut-In(2)
176	1599.79	110.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
1.00	Clean Oil	0.01
30.00	25% Water, 75% Mud	0.42
63.00	45% water, 55% mud	0.88
63.00	10% mud, 90% water	0.88
63.00	5% mud, 95% water	0.88

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: 18420

DST#: 3

ATTN: Jim Musgrove

Test Start: 2013.07.23 @ 04:04:00

Tool Information

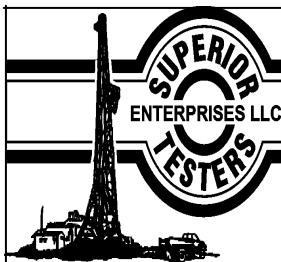
Drill Pipe:	Length:	3265.00 ft	Diameter:	3.80 inches	Volume:	45.80 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	48000.00 lb
					Total Volume:	45.80 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		32.00 ft					String Weight: Initial	34000.00 lb
Depth to Top Packer:		3254.00 ft					Final	37000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		72.53 ft						
Tool Length:		93.53 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			3234.00		
Shut-In Tool	5.00			3239.00		
Hydroic Tool	5.00			3244.00		
Packer	5.00			3249.00	21.00	Bottom Of Top Packer
Packer	5.00			3254.00		
Perforations	5.00			3259.00		
Change Over Sub	0.75			3259.75		
Drill Pipe	32.03			3291.78		
Change Over Sub	0.75			3292.53		
Perforations	29.00			3321.53		
Recorder	1.00	8405	Inside	3322.53		
Recorder	1.00	8400	Outside	3323.53		
Bullnose	3.00			3326.53	72.53	Bottom Packers & Anchor

Total Tool Length: 93.53



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

13/19s/12w/Barton

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

Hammeke #1

Job Ticket: 18420

DST#: 3

ATTN: Jim Musgrove

Test Start: 2013.07.23 @ 04:04:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 9.60 in³

Resistivity: ohm.m

Salinity: 5000.00 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
1.00	Clean Oil	0.014
30.00	25% Water, 75% Mud	0.421
63.00	45% water, 55% mud	0.884
63.00	10% mud, 90% water	0.884
63.00	5% mud, 95% water	0.884
63.00	10% mud, 90% water	0.884
0.00	Chloride recov. 28000 ppm	0.000
0.00	resist recov .22 at 50 degrees.	0.000

Total Length: 283.00 ft

Total Volume: 3.971 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

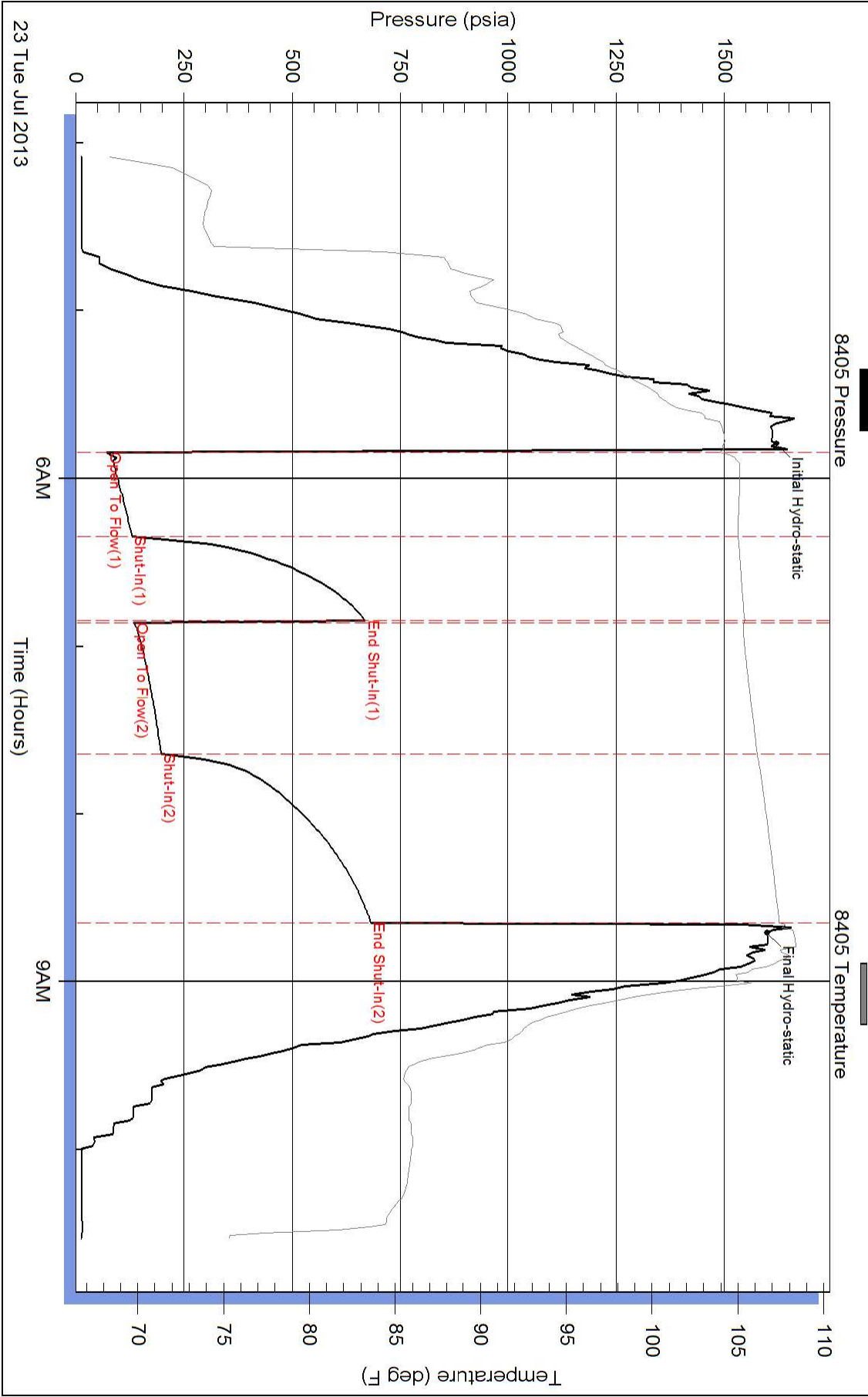
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Serial #: 8400

Outside RJM Company

Hammeke #1

DST Test Number: 3

