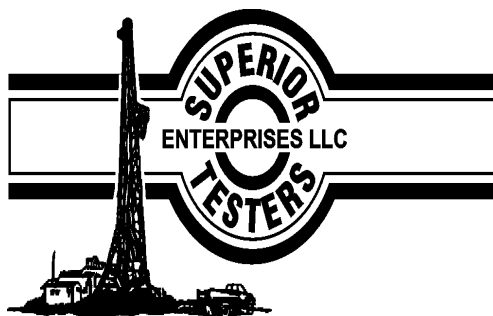




DRILL STEM TEST REPORT

Prepared For: **RJM Company**

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

ATTN: Jim Musgrove

Hammeke #1

13/19s/12w/Barton

Start Date: 2013.07.22 @ 07:44:00

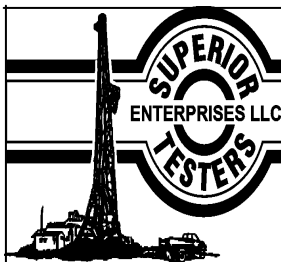
End Date: 2013.07.22 @ 14:51:00

Job Ticket #: 18419 DST #: 2

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

Printed: 2013.07.22 @ 15:02:08

RJM Company
13/19s/12w/Barton
Hammeke #1
DST # 2
LKC "D-F"
2013.07.22



DRILL STEM TEST REPORT

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

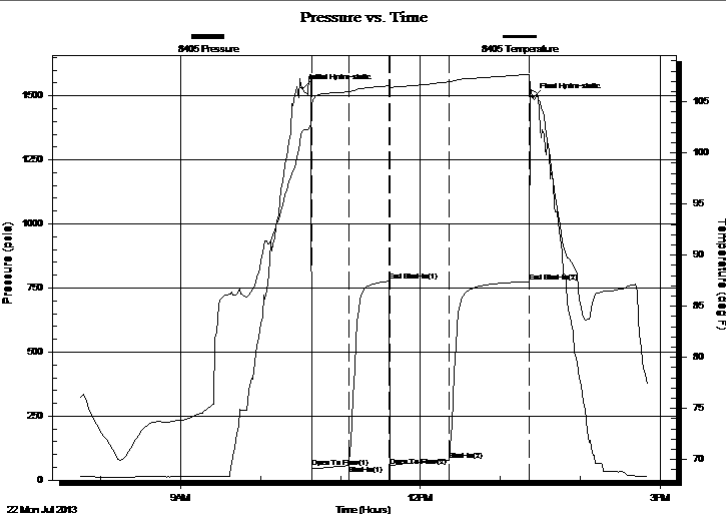
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18419 **DST#: 2**
Test Start: 2013.07.22 @ 07:44:00

GENERAL INFORMATION:

Formation: **LKC "D-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:38:30
Time Test Ended: 14:51:00
Interval: **3153.00 ft (KB) To 3184.00 ft (KB) (TVD)**
Total Depth: 3184.00 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 #: 8405 Inside
Press@RunDepth: 76.84 psia @ 3180.00 ft (KB)
Start Date: 2013.07.22 End Date: 2013.07.22
Start Time: 07:44:00 End Time: 14:51:00
Capacity: 5000.00 psia
Last Calib.: 2013.07.22
Time On Btm: 2013.07.22 @ 10:31:30
Time Off Btm: 2013.07.22 @ 13:24:30

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of a 5 gallon bucket in 2 Minutes.
1st Shut In/ 30 Minutes. Blow back built to 1/2 an inch in a 5 gallon bucket.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes 20 seconds. Gas to surface in 20 Minutes.



PRESSURE SUMMARY

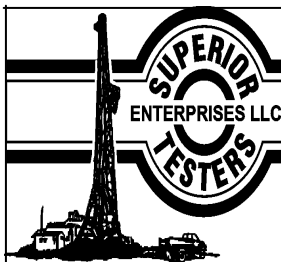
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1528.72	102.17	Initial Hydro-static
7	50.85	104.71	Open To Flow (1)
35	56.34	105.98	Shut-In(1)
65	776.17	106.57	End Shut-In(1)
66	54.38	106.42	Open To Flow (2)
110	76.84	106.95	Shut-In(2)
170	775.26	107.69	End Shut-In(2)
173	1493.18	106.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3184 feet gas.	0.00
30.00	Gassy Oil	0.42
80.00	10% mud, 5% water, 5% gas, 80% oil.	1.12

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	10.30	3.85
Last Gas Rate	0.25	5.20	8.25
Max. Gas Rate	0.13	12.10	4.53



DRILL STEM TEST REPORT

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

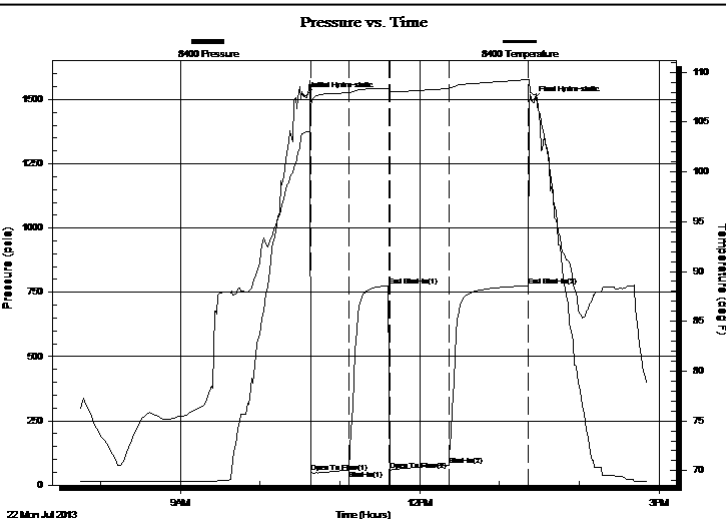
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18419 **DST#: 2**
Test Start: 2013.07.22 @ 07:44:00

GENERAL INFORMATION:

Formation: **LKC "D-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:38:30
Time Test Ended: 14:51:00
Interval: **3153.00 ft (KB) To 3184.00 ft (KB) (TVD)**
Total Depth: 3184.00 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: 775.48 psia @ 3181.00 ft (KB)
Start Date: 2013.07.22 End Date: 2013.07.22
Start Time: 07:44:00 End Time: 14:51:30
Capacity: 5000.00 psia
Last Calib.: 2013.07.22
Time On Btm: 2013.07.22 @ 10:33:30
Time Off Btm: 2013.07.22 @ 13:24:30

TEST COMMENT: 1st Open/ 30 Minutes. Good blow built to bottom of a 5 gallon bucket in 2 Minutes.
1st Shut In/ 30 Minutes. Blow back built to 1/2 an inch in a 5 gallon bucket.
2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 2 minutes 20 seconds. Gas to surface in 20 Minutes.



PRESSURE SUMMARY

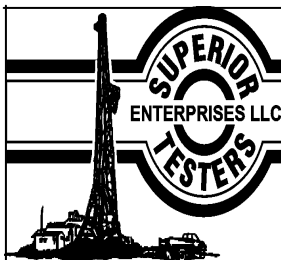
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1511.66	103.95	Initial Hydro-static
5	50.73	106.73	Open To Flow (1)
33	58.07	107.92	Shut-In(1)
63	776.81	108.39	End Shut-In(1)
64	56.02	108.11	Open To Flow (2)
109	78.30	108.36	Shut-In(2)
169	775.48	109.26	End Shut-In(2)
171	1496.90	107.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3184 feet gas.	0.00
30.00	Gassy Oil	0.42
80.00	10% mud, 5% water, 5% gas, 80% oil.	1.12

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	10.30	3.85
Last Gas Rate	0.25	5.20	8.25
Max. Gas Rate	0.13	12.10	4.53



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company

13/19s/12w/Barton

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

Hammeke #1

Job Ticket: 18419

DST#: 2

ATTN: Jim Musgrove

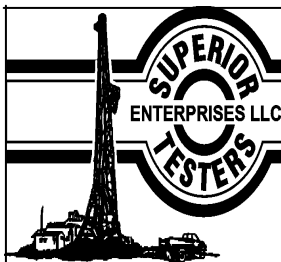
Test Start: 2013.07.22 @ 07:44:00

Tool Information

Drill Pipe:	Length:	3142.00 ft	Diameter:	3.80 inches	Volume:	44.07 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:	54000.00 lb
					Total Volume:	44.07 bbl	Tool Chased	4.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight: Initial	32000.00 lb
Depth to Top Packer:		3153.00 ft					Final	34000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		31.00 ft						
Tool Length:		52.00 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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Change Over Sub	1.00			3133.00	
Shut-In Tool	5.00			3138.00	
Hydroic Tool	5.00			3143.00	
Packer	5.00			3148.00	21.00 Bottom Of Top Packer
Packer	5.00			3153.00	
Perforations	26.00			3179.00	
Recorder	1.00	8405	Inside	3180.00	
Recorder	1.00	8400	Outside	3181.00	
Bullnose	3.00			3184.00	31.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

13/19s/12w/Barton

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

Hammeke #1

Job Ticket: 18419

DST#: 2

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 07:44:00

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	3184 feet gas.	0.000
30.00	Gassy Oil	0.421
80.00	10% mud, 5% water, 5% gas, 80% oil.	1.122

Total Length: 110.00 ft

Total Volume: 1.543 bbl

Num Fluid Samples: 0

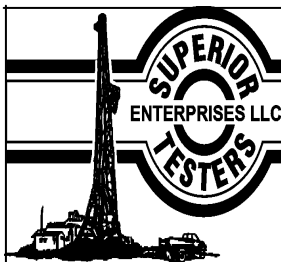
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

GAS RATES

RJM Company

13/19s/12w/Barton

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

Hammeke #1

Job Ticket: 18419

DST#: 2

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 07:44:00

Gas Rates Information

Temperature: 59 (deg F)

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
3	20	0.13	10.30	3.85
3	20	0.13	10.30	3.85
3	25	0.13	10.30	3.85
3	30	0.13	10.80	4.04
3	35	0.13	12.10	4.53
3	40	0.25	5.20	8.25

Pressure vs. Time

