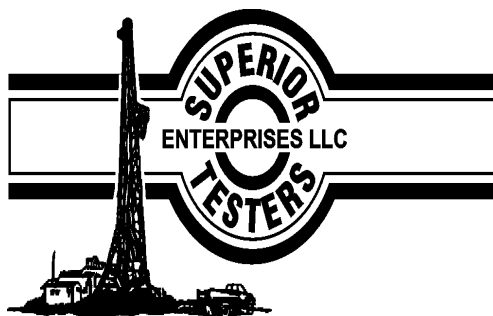




DRILL STEM TEST REPORT

Prepared For: **RJM Company**

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

ATTN: Jim Musgrove

Hammeke #1

13/19s/12w/Barton

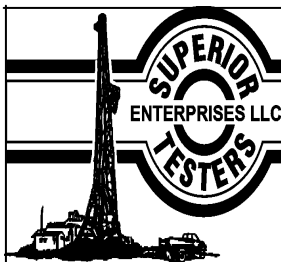
Start Date: 2013.07.22 @ 18:13:00

End Date: 2013.07.23 @ 00:42:23

Job Ticket #: 18418 DST #: 1

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

Printed: 2013.07.22 @ 00:59:52



DRILL STEM TEST REPORT

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

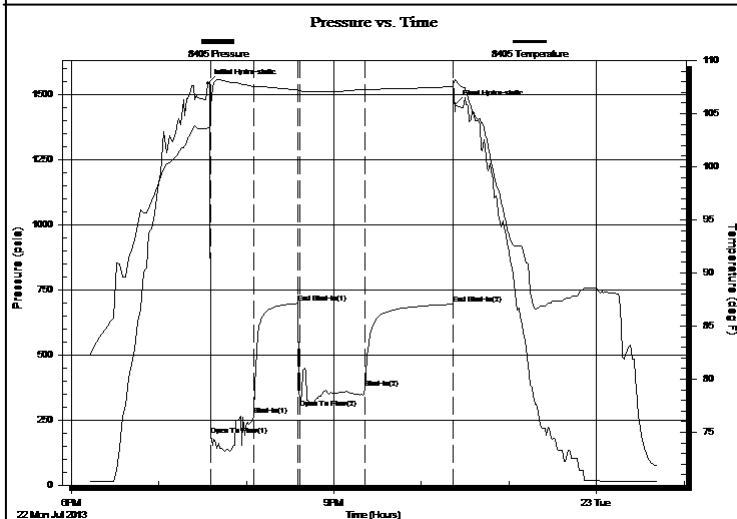
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18418 **DST#: 1**
Test Start: 2013.07.22 @ 18:13:00

GENERAL INFORMATION:

Formation: **LKC "A-B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:35:53
Time Test Ended: 00:42:23
Interval: **3097.00 ft (KB) To 3144.00 ft (KB) (TVD)**
Total Depth: 3144.00 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: 371.47 psia @ 3140.00 ft (KB) Capacity: 5000.00 psia
Start Date: 2013.07.22 End Date: 2013.07.23 Last Calib.: 2013.07.22
Start Time: 18:13:00 End Time: 00:42:23 Time On Btm: 2013.07.22 @ 19:33:53
Time Off Btm: 2013.07.22 @ 22:23:23

TEST COMMENT: 1st Open/ 30 Minutes. Strong blow built to bottom of bucket in 40 Seconds. Gas to surface in 8 minutes.
1st Shut In/ 30 Minutes. Blow back built to bottom of bucket in 15 Minutes.
2nd Open/ 45 Minutes. Strong blow built to bottom of bucket in 40 seconds.
2nd Shut In/ 60 Minutes. Blow back built to 11 inches.



PRESSURE SUMMARY

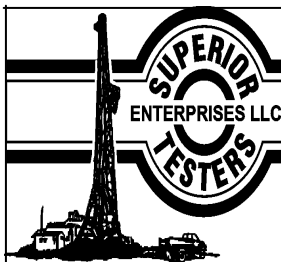
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1544.13	103.69	Initial Hydro-static
2	192.11	105.76	Open To Flow (1)
32	270.44	107.55	Shut-In(1)
62	698.77	107.24	End Shut-In(1)
63	296.11	107.13	Open To Flow (2)
108	371.47	107.26	Shut-In(2)
168	695.39	107.55	End Shut-In(2)
170	1464.13	108.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3144 feet gas	0.00
63.00	10% Oil, 90% mud.	0.88
63.00	40% mud, 10% water, 20% oil, 30% gas	0.88
63.00	40% mud, 20% oil, 40% gas.	0.88
63.00	20% mud, 20% oil, 60% gas	0.88
63.00	100% gas	0.88

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.75	6.28	98.09
Last Gas Rate	0.50	4.40	29.68
Max. Gas Rate	0.75	6.28	98.09



DRILL STEM TEST REPORT

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

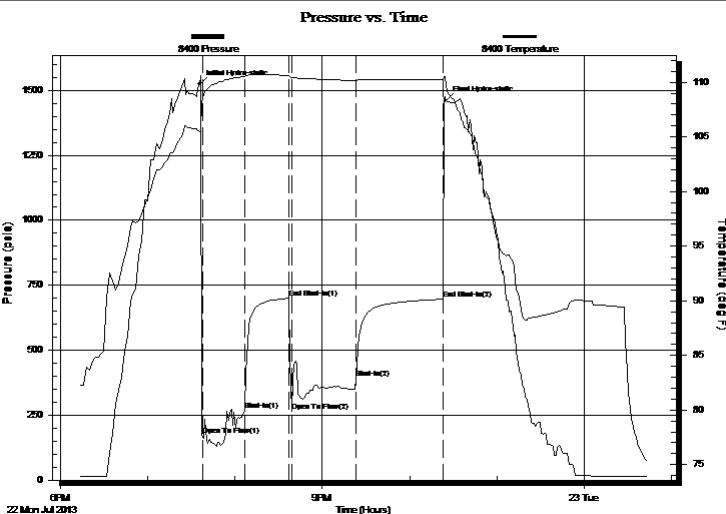
13/19s/12w/Barton
Hammeke #1
Job Ticket: 18418 **DST#: 1**
Test Start: 2013.07.22 @ 18:13:00

GENERAL INFORMATION:

Formation: **LKC "A-B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:35:53
Time Test Ended: 00:42:23
Interval: **3097.00 ft (KB) To 3144.00 ft (KB) (TVD)**
Total Depth: 3144.00 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: 696.26 psia @ 3141.00 ft (KB)
Start Date: 2013.07.22 End Date: 2013.07.23
Start Time: 18:13:00 End Time: 00:43:30
Capacity: 5000.00 psia
Last Calib.: 2013.07.22
Time On Btm: 2013.07.22 @ 19:35:30
Time Off Btm: 2013.07.22 @ 22:25:00

TEST COMMENT: 1st Open/ 30 Minutes. Strong blow built to bottom of bucket in 40 Seconds. Gas to surface in 8 minutes.
1st Shut In/ 30 Minutes. Blow back built to bottom of bucket in 15 Minutes.
2nd Open/ 45 Minutes. Strong blow built to bottom of bucket in 40 seconds.
2nd Shut In/ 60 Minutes. Blow back built to 11 inches.



PRESSURE SUMMARY

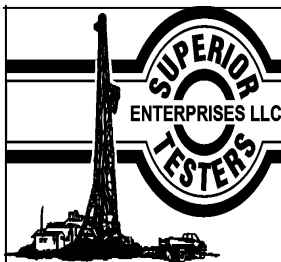
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1523.58	105.50	Initial Hydro-static
2	173.46	108.11	Open To Flow (1)
31	267.61	110.50	Shut-In(1)
62	699.69	110.59	End Shut-In(1)
64	265.47	110.38	Open To Flow (2)
108	393.17	110.17	Shut-In(2)
168	696.26	110.27	End Shut-In(2)
170	1459.31	109.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	3144 feet gas	0.00
63.00	10% Oil, 90% mud.	0.88
63.00	40% mud, 10% water, 20% oil, 30% gas	0.88
63.00	40% mud, 20% oil, 40% gas.	0.88
63.00	20% mud, 20% oil, 60% gas	0.88
63.00	100% gas	0.88

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.75	6.28	98.09
Last Gas Rate	0.50	4.40	29.68
Max. Gas Rate	0.75	6.28	98.09



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company

13/19s/12w/Barton

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

Hammeke #1

Job Ticket: 18418

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 18:13:00

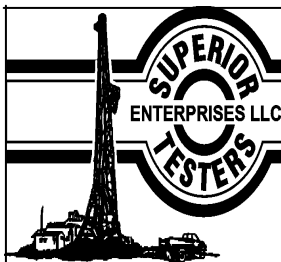
Tool Information

Drill Pipe:	Length:	3099.00 ft	Diameter:	3.80 inches	Volume:	43.47 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:	43.47 bbl	Tool Chased	6.00 ft
Drill Pipe Above KB:	31.00 ft							
Depth to Top Packer:	3097.00 ft							
Depth to Bottom Packer:	ft							
Interval between Packers:	47.00 ft							
Tool Length:	76.00 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			3069.00	
Shut-In Tool	5.00			3074.00	
Hydroic Tool	5.00			3079.00	
Jars	6.00			3085.00	
Safety Joint	2.00			3087.00	
Packer	5.00			3092.00	29.00 Bottom Of Top Packer
Packer	5.00			3097.00	
Perforations	42.00			3139.00	
Recorder	1.00	8405	Inside	3140.00	
Recorder	1.00	8400	Outside	3141.00	
Bullnose	3.00			3144.00	47.00 Bottom Packers & Anchor

Total Tool Length: 76.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

13/19s/12w/Barton

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

Hammeke #1

Job Ticket: 18418

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 18:13:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 8.80 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 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	3144 feet gas	0.000
63.00	10% Oil, 90% mud.	0.884
63.00	40% mud, 10% water, 20% oil, 30% gas	0.884
63.00	40% mud, 20% oil, 40% gas.	0.884
63.00	20% mud, 20% oil, 60% gas	0.884
63.00	100% gas	0.884
63.00	20% mud, 30% oil, 50% gas	0.884
67.00	30% mud, 30% oil, 40% gas	0.940

Total Length: 445.00 ft

Total Volume: 6.244 bbl

Num Fluid Samples: 0

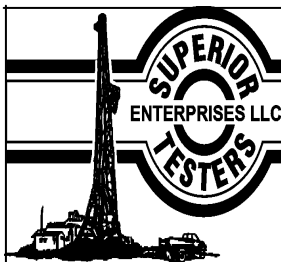
Num Gas Bombs: 0

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: 18418

DST#: 1

ATTN: Jim Musgrove

Test Start: 2013.07.22 @ 18:13:00

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)
1	10	0.75	6.28	98.09
1	15	0.75	6.28	98.09
1	20	0.75	6.28	98.09
1	25	0.75	5.70	89.03
1	30	0.75	5.50	85.91
3	5	0.75	4.45	69.51
3	10	0.75	4.45	69.51
3	15	0.75	4.45	69.51
3	20	0.50	4.40	29.68
3	25	0.50	5.20	35.08
3	30	0.50	4.40	29.68
3	35	0.50	4.60	31.03
3	40	0.50	4.40	29.68
3	45	0.50	4.40	29.68

Serial #: 8405

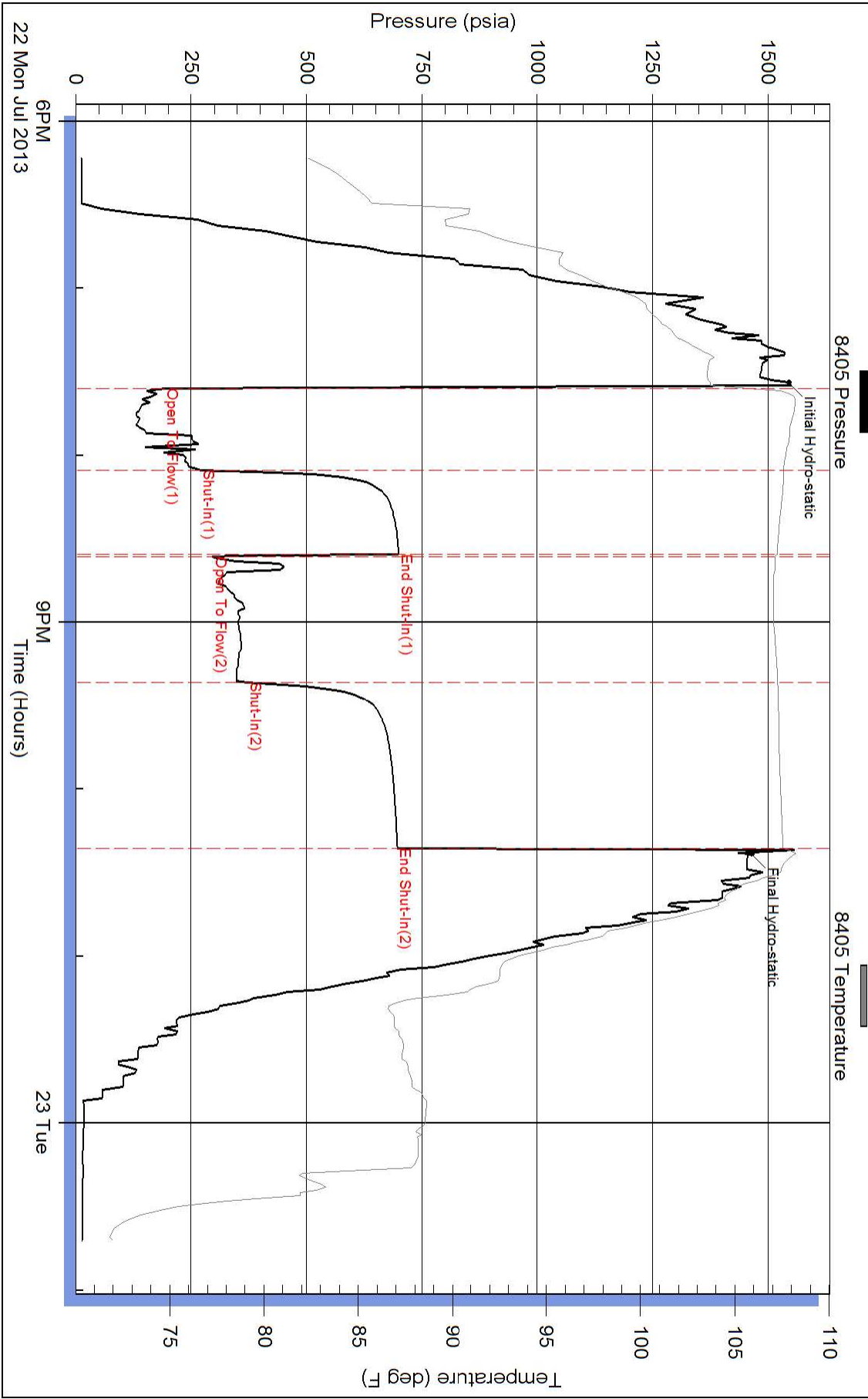
Inside

RJM Company

Hammeke #1

DST Test Number: 1

Pressure vs. Time



Serial #: 8400

Outside RJM Company

Hammeke #1

DST Test Number: 1

