



DRILL STEM TEST REPORT

Prepared For: **RJM Company**

Po Box 256 Claflin KS 67525+0256

ATTN: Kurt

Patty Rose #1

9-22-14 Stafford

Start Date: 2012.11.28 @ 13:25:00

End Date: 2012.11.28 @ 19:33:30

Job Ticket #: 16980 DST #: 4

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

Printed: 2012.11.28 @ 19:53:19



DRILL STEM TEST REPORT

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16980 **DST#: 4**
 Test Start: 2012.11.28 @ 13:25:00

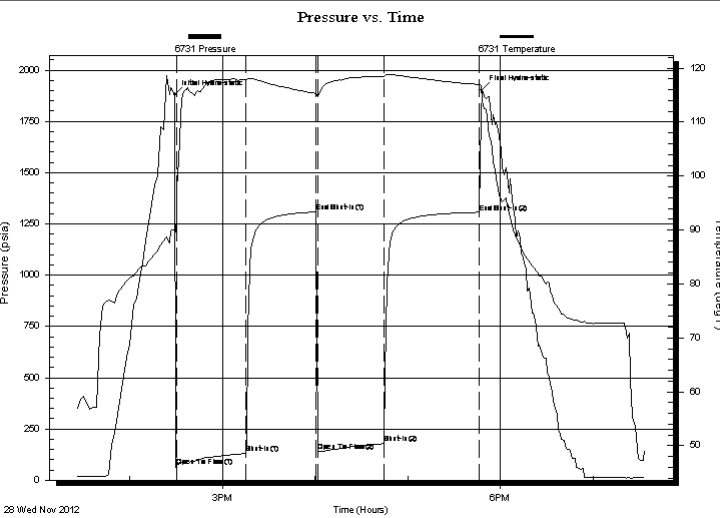
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:30:00
 Time Test Ended: 19:33:30
Interval: 3810.00 ft (KB) To 3871.00 ft (KB) (TVD)
 Total Depth: 3871.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Reference Elevations: 1951.00 ft (KB)
 1944.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 6731

Press@RunDepth: 179.45 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.28 End Date: 2012.11.28 Last Calib.: 2012.11.28
 Start Time: 13:25:00 End Time: 19:33:30 Time On Btm: 2012.11.28 @ 14:29:00
 Time Off Btm: 2012.11.28 @ 17:48:00

TEST COMMENT: 1st Opening 45 Minutes-Weak blow built bottom of bucket in 26 minutes
 1st Shut-in 45 Minutes-1/4 inch blow back
 2nd Opening 45 Minutes-Weak blow built bottom of bucket in 39 minutes
 2nd Shut-in 60 Minutes-1/4 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1880.68	89.98	Initial Hydro-static
1	67.78	92.23	Open To Flow (1)
46	131.30	117.87	Shut-In(1)
92	1307.88	115.33	End Shut-In(1)
93	138.59	114.67	Open To Flow (2)
136	179.45	118.51	Shut-In(2)
198	1306.37	116.95	End Shut-In(2)
199	1904.03	113.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Clean oil 100%	1.82
120.00	oil mud 20%oil 80%mud	1.68
0.00	Gravity oil 50	0.00

Gas Rates

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



DRILL STEM TEST REPORT

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16980 **DST#: 4**
 Test Start: 2012.11.28 @ 13:25:00

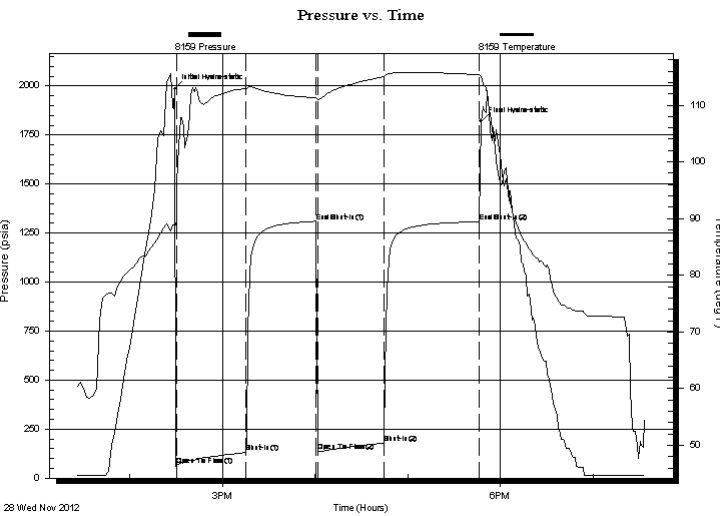
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 14:30:00 Tester: Jared Scheck
 Time Test Ended: 19:33:30 Unit No: 3320-Great Bend-40
 Interval: **3810.00 ft (KB) To 3871.00 ft (KB) (TVD)** Reference Elevations: 1951.00 ft (KB)
 Total Depth: 3871.00 ft (KB) (TVD) 1944.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 1307.62 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.28 End Date: 2012.11.28 Last Calib.: 2012.11.28
 Start Time: 13:25:00 End Time: 19:34:00 Time On Btm: 2012.11.28 @ 14:29:00
 Time Off Btm: 2012.11.28 @ 17:47:30

TEST COMMENT: 1st Opening 45 Minutes-Weak blow built bottom of bucket in 26 minutes
 1st Shut-in 45 Minutes-1/4 inch blow back
 2nd Opening 45 Minutes-Weak blow built bottom of bucket in 39 minutes
 2nd Shut-in 60 Minutes-1/4 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1985.87	89.00	Initial Hydro-static
1	64.76	89.74	Open To Flow (1)
46	131.83	112.91	Shut-In(1)
92	1309.36	111.31	End Shut-In(1)
93	136.14	110.95	Open To Flow (2)
136	179.97	115.04	Shut-In(2)
198	1307.62	115.41	End Shut-In(2)
199	1818.11	115.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Clean oil 100%	1.82
120.00	oil mud 20%oil 80%mud	1.68
0.00	Gravity oil 50	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RJM Company
 Po Box 256 Claflin KS 67525+0256
 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16980 **DST#: 4**
 Test Start: 2012.11.28 @ 13:25:00

Tool Information

Drill Pipe:	Length: 3820.00 ft	Diameter: 3.80 inches	Volume: 53.58 bbl	Tool Weight: 1000.00 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: 70000.00 lb
			<u>Total Volume: 53.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3810.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Ruined packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3795.00	
Hydraulic Tool	5.00			3800.00	
Packer	5.00			3805.00	20.00 Bottom Of Top Packer
Packer	5.00			3810.00	
Anchor	5.00			3815.00	
Change Over Sub	0.75			3815.75	
Drill Pipe	31.50			3847.25	
Change Over Sub	0.75			3848.00	
Anchor	18.00			3866.00	
Recorder	1.00	6731	Inside	3867.00	
Recorder	1.00	8159	Outside	3868.00	
Bullnose	3.00			3871.00	61.00 Bottom Packers & Anchor

Total Tool Length: 81.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RJM Company

9-22-14 Stafford

Po Box 256 Claflin KS 67525+0256

Patty Rose #1

Job Ticket: 16980

DST#: 4

ATTN: Kurt

Test Start: 2012.11.28 @ 13:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 80.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	Clean oil 100%	1.824
120.00	oil mud 20%oil 80%mud	1.683
0.00	Gravity oil 50	0.000

Total Length: 250.00 ft Total Volume: 3.507 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: ruined packer

