

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: 2012.11.26 @ 12:35:00

End Date: 2012.11.26 @ 18:45:00

Job Ticket #: 16977 DST #: 1

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

Printed: 2012.12.01 @ 16:15:40

RJM Company
9-22-14 Stafford
Patty Rose #1
DST # 1
Lansing H,I,J
2012.11.26



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9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16977 **DST#: 1**
 Test Start: 2012.11.26 @ 12:35:00

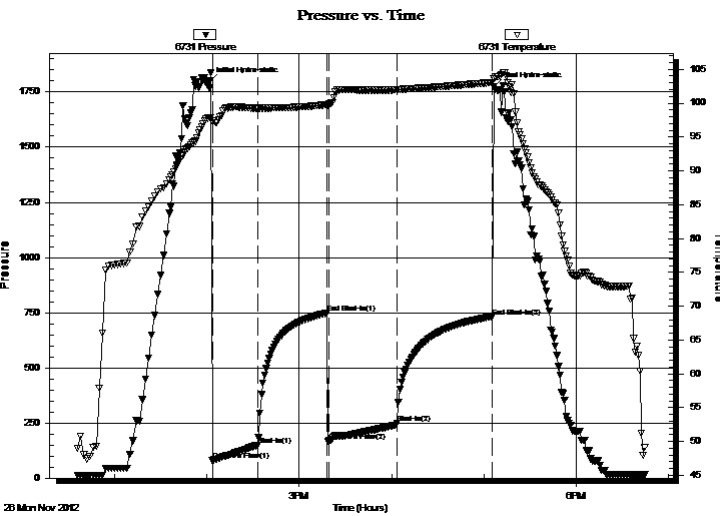
GENERAL INFORMATION:

Formation: **Lansing H,I,J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:03:30
 Time Test Ended: 18:45:00
 Interval: **3588.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 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: 248.40 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.26 End Date: 2012.11.26 Last Calib.: 2012.11.26
 Start Time: 12:36:00 End Time: 18:45:00 Time On Btm: 2012.11.26 @ 14:02:00
 Time Off Btm: 2012.11.26 @ 17:06:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 5 minutes
 1st Shut-in 45 Minutes-4 inch b low back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 10 minutes
 2nd Shut-in 60 Minutes-4 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1799.28	97.83	Initial Hydro-static
2	79.05	97.31	Open To Flow (1)
31	149.51	99.22	Shut-In(1)
76	748.84	99.77	End Shut-In(1)
77	167.06	99.69	Open To Flow (2)
122	248.40	101.97	Shut-In(2)
184	732.70	103.06	End Shut-In(2)
185	1776.18	103.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	10%gas 15%oil 35%w ater 40%mud	2.52
210.00	muddy w ater 50%w ater 50%mud	2.95
0.00	chlorides 70,000 rseistivity .2@65degree	0.00
300.00	gas in pipe	4.21

Gas Rates

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



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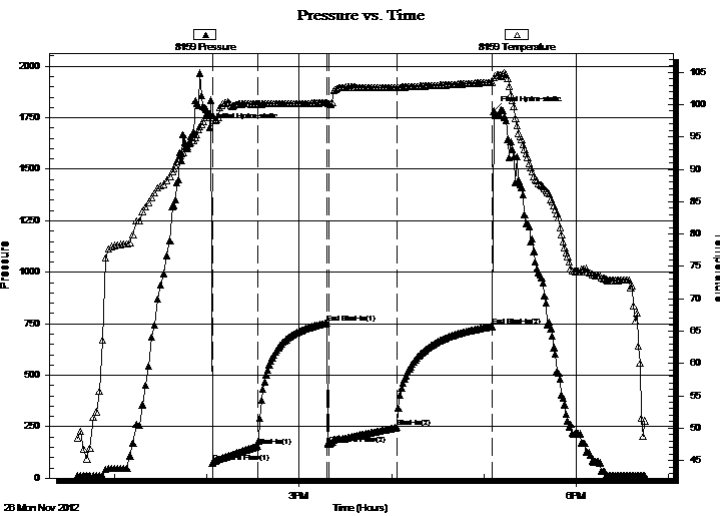
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 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Reference Elevations: 1951.00 ft (KB)
 1944.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press @ Run Depth: 736.98 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.26 End Date: 2012.11.26 Last Calib.: 2012.11.26
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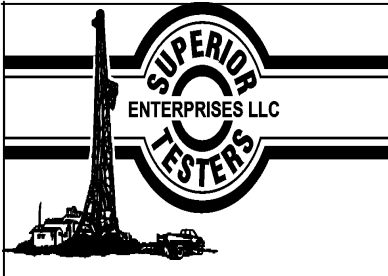
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1702.58	98.41	Initial Hydro-static
2	74.81	98.08	Open To Flow (1)
31	155.56	100.05	Shut-In(1)
76	753.86	100.32	End Shut-In(1)
77	164.94	100.16	Open To Flow (2)
122	246.03	102.63	Shut-In(2)
184	736.98	103.48	End Shut-In(2)
185	1782.58	104.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	10%gas 15%oil 35%w ater 40%mud	2.52
210.00	muddy w ater 50%w ater 50%mud	2.95
0.00	chlorides 70,000 rseistivity .2@65degree	0.00
300.00	gas in pipe	4.21

Gas Rates

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



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TOOL DIAGRAM

RJM Company
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Tool Information

Drill Pipe:	Length: 3599.00 ft	Diameter: 3.80 inches	Volume: 50.48 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: 42000.00 lb
			<u>Total Volume: 50.48 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3588.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3573.00	
Hydraulic Tool	5.00			3578.00	
Packer	5.00			3583.00	20.00 Bottom Of Top Packer
Packer	5.00			3588.00	
Anchor	5.00			3593.00	
Change Over Sub	0.75			3593.75	
Drill Pipe	32.50			3626.25	
Change Over Sub	0.75			3627.00	
Anchor	18.00			3645.00	
Recorder	1.00	6731	Inside	3646.00	
Recorder	1.00	8159	Outside	3647.00	
Bullnose	3.00			3650.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



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FLUID SUMMARY

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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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	10%gas 15%oil 35%water 40%mud	2.525
210.00	muddy water 50%water 50%mud	2.946
0.00	chlorides 70,000 resistivity .2@65degree	0.000
300.00	gas in pipe	4.208

Total Length: 690.00 ft Total Volume: 9.679 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

