



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: 2012.11.27 @ 01:39:08

End Date: 2012.11.27 @ 08:10:38

Job Ticket #: 16978 DST #: 2

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

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 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16978 **DST#: 2**
 Test Start: 2012.11.27 @ 01:39:08

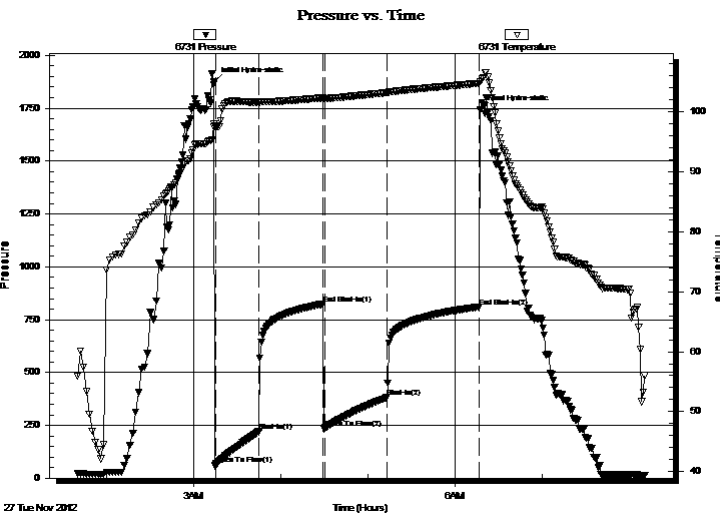
GENERAL INFORMATION:

Formation: **Lansing K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:15:08
 Time Test Ended: 08:10:38
 Interval: **3648.00 ft (KB) To 3680.00 ft (KB) (TVD)**
 Total Depth: 3680.00 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 @ Run Depth: 381.51 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.27 End Date: 2012.11.27 Last Calib.: 2012.11.27
 Start Time: 01:40:08 End Time: 08:10:38 Time On Btm: 2012.11.27 @ 03:14:08
 Time Off Btm: 2012.11.27 @ 06:17:38

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 7 minutes
 1st Shut-in 45 Minutes-Weak surface blow 1/2 inch
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 10 minutes
 2nd Shut-in 60 Minutes-Blow back 1 inch



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1877.94	98.02	Initial Hydro-static
1	63.79	97.60	Open To Flow (1)
31	222.40	101.56	Shut-In(1)
75	824.24	102.34	End Shut-In(1)
76	235.74	102.21	Open To Flow (2)
119	381.51	103.20	Shut-In(2)
183	809.89	104.75	End Shut-In(2)
184	1743.50	105.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	oil	0.06
840.00	w ater 10%mud 90%w ater	11.78
0.00	Gravityoil 55	0.00
0.00	chlorides 75,000 resistivity .3@ 55 deg	0.00

Gas Rates

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



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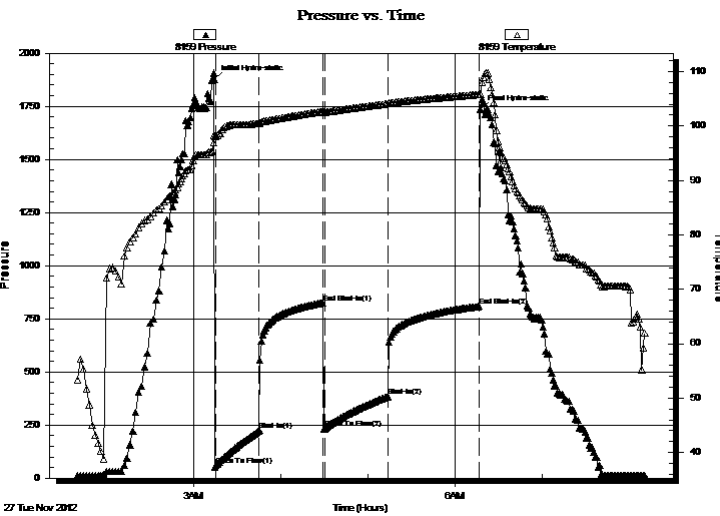
GENERAL INFORMATION:

Formation: **Lansing K**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 03:15:08 Tester: Jared Scheck
 Time Test Ended: 08:10:38 Unit No: 3320-Great Bend-40
 Interval: **3648.00 ft (KB) To 3680.00 ft (KB) (TVD)** Reference Elevations: 1951.00 ft (KB)
 Total Depth: 3680.00 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 @ Run Depth: 808.65 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.27 End Date: 2012.11.27 Last Calib.: 2012.11.27
 Start Time: 01:40:00 End Time: 08:11:00 Time On Btm: 2012.11.27 @ 03:14:00
 Time Off Btm: 2012.11.27 @ 06:17:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 7 minutes
 1st Shut-in 45 Minutes-Weak surface blow 1/2 inch
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 10 minutes
 2nd Shut-in 60 Minutes-Blow back 1 inch



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1876.17	98.29	Initial Hydro-static
1	59.01	98.13	Open To Flow (1)
31	224.23	100.54	Shut-In(1)
75	825.21	102.69	End Shut-In(1)
76	232.68	102.55	Open To Flow (2)
120	384.17	104.07	Shut-In(2)
183	808.65	105.78	End Shut-In(2)
184	1735.40	105.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	oil	0.06
840.00	w ater 10%mud 90%w ater	11.78
0.00	Gravityoil 55	0.00
0.00	chlorides 75,000 resistgivity .3@ 55 deg	0.00

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3632.00 ft	Diameter: 3.80 inches	Volume: 50.95 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: 50.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3648.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 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
Shut-In Tool	5.00			3633.00	
Hydraulic Tool	5.00			3638.00	
Packer	5.00			3643.00	20.00 Bottom Of Top Packer
Packer	5.00			3648.00	
Anchor	27.00			3675.00	
Recorder	1.00	6731	Inside	3676.00	
Recorder	1.00	8159	Outside	3677.00	
Bullnose	3.00			3680.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



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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: 8.79 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
4.00	oil	0.056
840.00	w ater 10%mud 90%w ater	11.783
0.00	Gravityoil 55	0.000
0.00	chlorides 75,000 resistgivity .3@ 55 deg	0.000

Total Length: 844.00 ft Total Volume: 11.839 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

