



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 @ 00:45:00

End Date: 2012.11.28 @ 05:40:30

Job Ticket #: 16979 DST #: 3

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

Printed: 2012.11.28 @ 05:53:28

RJM Company
9-22-14 Stafford
Patty Rose #1
DST # 3
Simpson Sand
2012.11.28



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 ATTN: Kurt

9-22-14 Stafford
Patty Rose #1
 Job Ticket: 16979 **DST#: 3**
 Test Start: 2012.11.28 @ 00:45:00

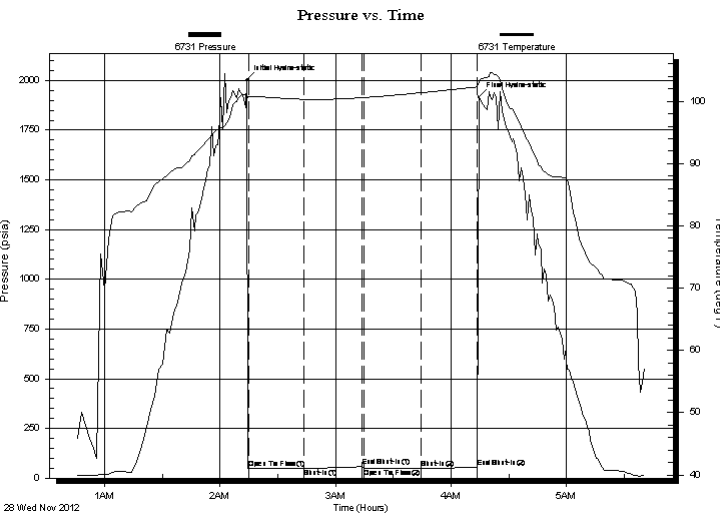
GENERAL INFORMATION:

Formation: **Simpson Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:15:00
 Time Test Ended: 05:40:30
 Interval: **3811.00 ft (KB) To 3853.00 ft (KB) (TVD)**
 Total Depth: 3853.00 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: 49.24 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.28 End Date: 2012.11.28 Last Calib.: 2012.11.28
 Start Time: 00:45:00 End Time: 05:40:30 Time On Btm: 2012.11.28 @ 02:14:00
 Time Off Btm: 2012.11.28 @ 04:14:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1/2 inch into bucket w ater died off
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2002.47	101.03	Initial Hydro-static
1	47.48	100.73	Open To Flow (1)
30	49.83	100.33	Shut-In(1)
60	57.12	100.58	End Shut-In(1)
61	48.35	100.59	Open To Flow (2)
91	49.24	101.39	Shut-In(2)
120	54.48	102.31	End Shut-In(2)
121	1918.39	103.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

Gas Rates

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



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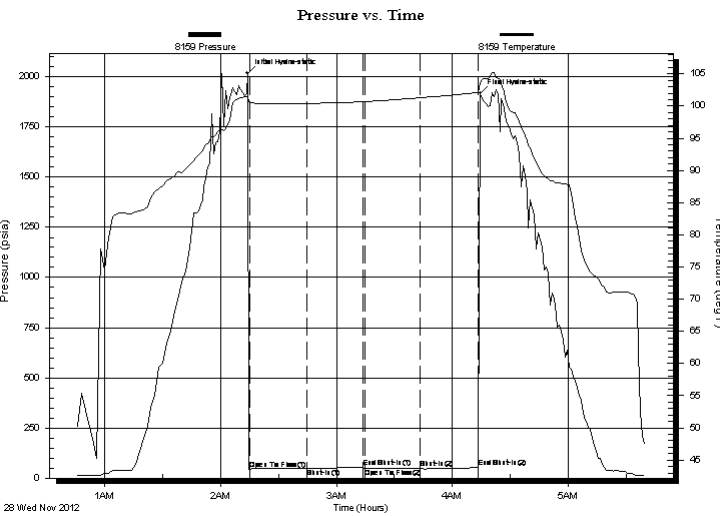
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 Total Depth: 3853.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-40
 Reference Elevations: 1951.00 ft (KB)
 1944.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 52.35 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.28 End Date: 2012.11.28 Last Calib.: 2012.11.28
 Start Time: 00:45:00 End Time: 05:40:00 Time On Btm: 2012.11.28 @ 02:14:00
 Time Off Btm: 2012.11.28 @ 04:14:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1/2 inch into bucket w ater died off
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2018.09	101.54	Initial Hydro-static
1	45.37	100.66	Open To Flow (1)
31	48.01	100.42	Shut-In(1)
60	55.36	100.67	End Shut-In(1)
61	46.92	100.68	Open To Flow (2)
89	48.14	101.27	Shut-In(2)
120	52.35	102.09	End Shut-In(2)
121	1916.95	103.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

Gas Rates

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



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TOOL DIAGRAM

RJM Company
 Po Box 256 Claflin KS 67525+0256
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Tool Information

Drill Pipe:	Length: 3821.00 ft	Diameter: 3.80 inches	Volume: 53.60 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: 45000.00 lb
			<u>Total Volume: 53.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3811.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	62.00 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			3796.00	
Hydraulic Tool	5.00			3801.00	
Packer	5.00			3806.00	20.00 Bottom Of Top Packer
Packer	5.00			3811.00	
Anchor	37.00			3848.00	
Recorder	1.00	6731	Inside	3849.00	
Recorder	1.00	8159	Outside	3850.00	
Bullnose	3.00			3853.00	42.00 Bottom Packers & Anchor

Total Tool Length: 62.00



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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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

