



DRILL STEM TEST REPORT

Prepared For: **Scotts Production LLC**

P.O. Box 136
110 N. Memory Trail
Roxbury Ks, 67476-0136

ATTN: Frank Mize

Jolene Stein #6

33/16s/1w/Saline

Start Date: 2013.08.06 @ 06:45:00

End Date: 2013.08.06 @ 12:59:30

Job Ticket #: 18423 DST #: 1

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

Printed: 2013.08.06 @ 13:22:38



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Test Start: 2013.08.06 @ 06:45:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:41:30

Time Test Ended: 12:59:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/220/ Great Bend

Interval: 2518.00 ft (KB) To 2614.00 ft (KB) (TVD)

Reference Elevations: 1280.00 ft (KB)

Total Depth: 2614.00 ft (KB) (TVD)

1273.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8405

Inside

Press @ Run Depth: 120.07 psia @ 2577.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.06

End Date: 2013.08.06

Last Calib.: 2013.08.06

Start Time: 06:45:00

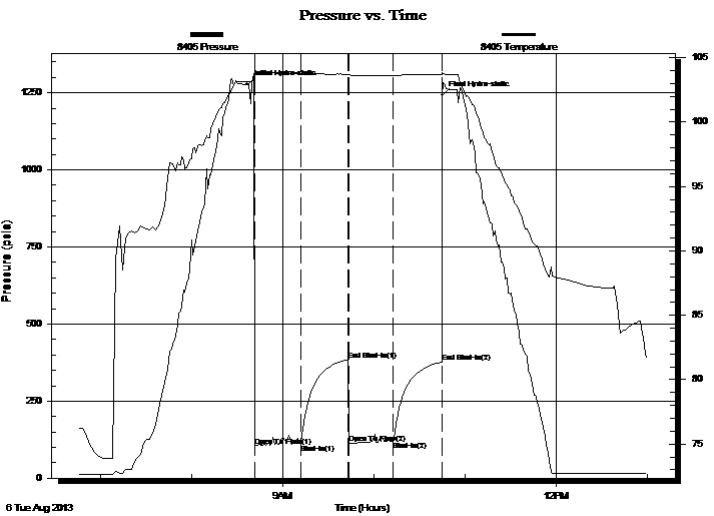
End Time: 12:59:30

Time On Btm: 2013.08.06 @ 08:36:30

Time Off Btm: 2013.08.06 @ 10:45:00

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 2 1/2 inches in 5 gallon bucket.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow did not flush tool per geo.
2nd Shut In/ 30 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1276.83	103.17	Initial Hydro-static
5	104.91	103.69	Open To Flow (1)
35	110.79	103.73	Shut-In(1)
66	381.69	103.73	End Shut-In(1)
67	113.05	103.66	Open To Flow (2)
96	120.07	103.62	Shut-In(2)
128	376.69	103.67	End Shut-In(2)
129	1241.33	103.83	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
90.00	100% mud.	0.44

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



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Reference Elevations: 1280.00 ft (KB)

Total Depth: 2614.00 ft (KB) (TVD)

1273.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8400 Outside

Press @ RunDepth: 378.07 psia @ 2578.50 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.06

End Date: 2013.08.06

Last Calib.: 2013.08.06

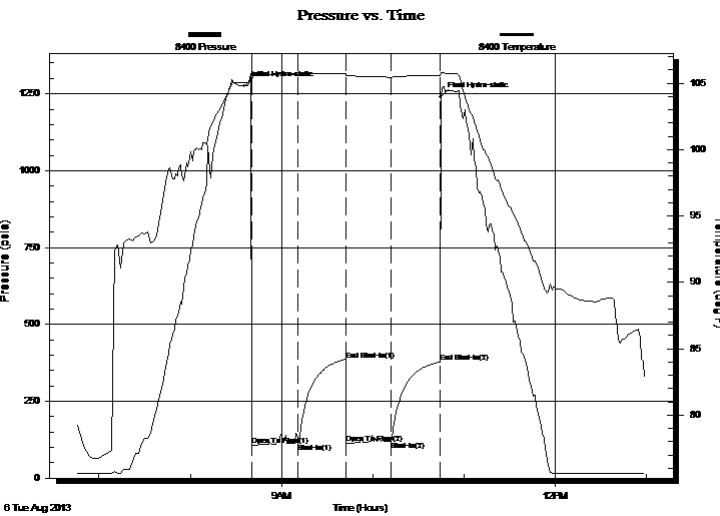
Start Time: 06:45:00

End Time: 12:59:00

Time On Btm: 2013.08.06 @ 08:35:30

Time Off Btm: 2013.08.06 @ 10:44:30

TEST COMMENT: 1st Open/ 30 Minutes. Weak blow built to 2 1/2 inches in 5 gallon bucket.
1st Shut In/ 30 Minutes. No blow back.
2nd Open/ 30 Minutes. No blow did not flush tool per geo.
2nd Shut In/ 30 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1276.54	105.07	Initial Hydro-static
5	106.50	105.35	Open To Flow (1)
36	113.26	105.63	Shut-In(1)
67	384.69	105.72	End Shut-In(1)
67	114.55	105.61	Open To Flow (2)
97	120.44	105.46	Shut-In(2)
129	378.07	105.56	End Shut-In(2)
129	1239.85	105.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
90.00	100% mud.	0.44

Gas Rates

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



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TOOL DIAGRAM

Scotts Production LLC

33/16s/1w/Saline

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DST#: 1

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Tool Information

Drill Pipe:	Length: 2352.00 ft	Diameter: 2.25 inches	Volume: 11.57 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: 157.00 ft	Diameter: 2.25 inches	Volume: 0.77 bbl	Weight to Pull Loose: 62000.00 lb
			Total Volume: 12.34 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	2518.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.50 ft			
Tool Length:	94.50 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2490.00	
Shut-In Tool	5.00			2495.00	
Hydroic Tool	5.00			2500.00	
Jars	6.00			2506.00	
Safety Joint	2.00			2508.00	
Packer	5.00			2513.00	29.00 Bottom Of Top Packer
Packer	5.00			2518.00	
Perforations	6.00			2524.00	
Change Over Sub	0.75			2524.75	
Drill Pipe	27.00			2551.75	
Change Over Sub	0.75			2552.50	
Perforations	24.00			2576.50	
Recorder	1.00	8405	Inside	2577.50	
Recorder	1.00	8400	Outside	2578.50	
Bullnose	5.00			2583.50	65.50 Bottom Packers & Anchor

Total Tool Length: 94.50



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 42.00 sec/qt
Water Loss: 9.60 in³
Resistivity: ohm.m
Salinity: 900.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
90.00	100% mud.	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

