



DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

2717 Canal Blvd Hays KS 67601

ATTN: Jeremy Schwartzs

Reif Trust #1-23

23-18-14 Barton

Start Date: 2014.05.19 @ 13:55:00

End Date: 2014.05.20 @ 00:25:00

Job Ticket #: 19241 DST #: 1

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

Printed: 2014.05.20 @ 01:50:13



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 Test Start: 2014.05.19 @ 13:55:00

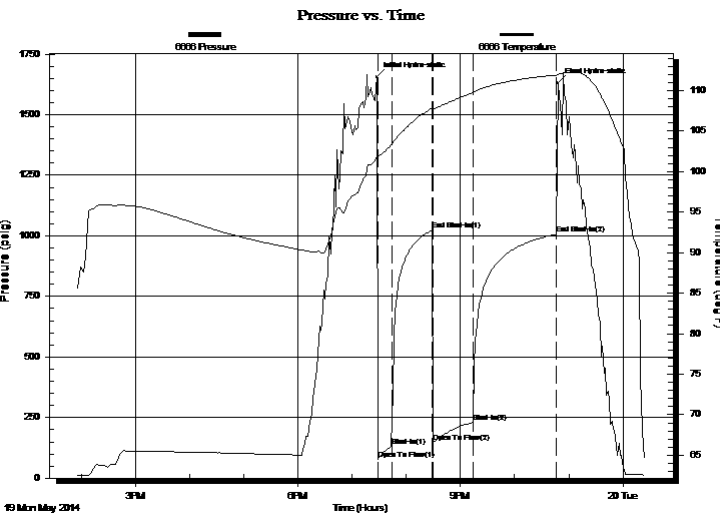
GENERAL INFORMATION:

Formation: **Lansing " A - F "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:29:00
 Time Test Ended: 00:25:00
 Interval: **3166.00 ft (KB) To 3240.00 ft (KB) (TVD)**
 Total Depth: 3240.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3335-Great Bend-
 Reference Elevations: 1914.00 ft (KB)
 1901.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6666

Press@RunDepth: 229.51 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.05.19 End Date: 2014.05.20 Last Calib.: 2014.05.20
 Start Time: 13:55:00 End Time: 00:25:00 Time On Btm: 2014.05.19 @ 19:27:30
 Time Off Btm: 2014.05.19 @ 22:48:00

TEST COMMENT: 1st Opening 15 Minutes-Weak blow built 3 inches from bottom of bucket in 15 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 1 inch from bottom of bucket in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.49	102.03	Initial Hydro-static
2	79.61	101.92	Open To Flow (1)
17	133.13	103.36	Shut-In(1)
62	1023.99	107.85	End Shut-In(1)
63	145.94	107.72	Open To Flow (2)
106	229.51	109.71	Shut-In(2)
199	1006.03	111.90	End Shut-In(2)
201	1630.11	112.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	mud w water 10 % mud 90%w ater	1.48
30.00	spot oil mud 1%oil 99%mud	0.15
0.00	chlorides 68,000	0.00

Gas Rates

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



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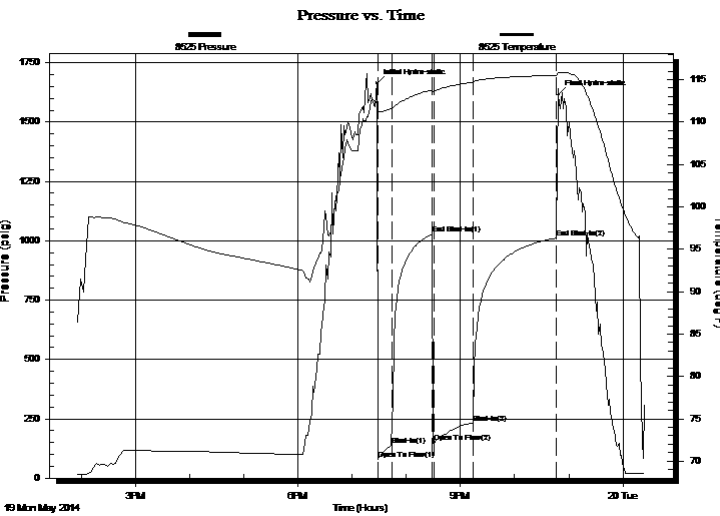
GENERAL INFORMATION:

Formation: **Lansing " A - F "**
 Deviated: No Whipstock: ft (KB)
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 Time Test Ended: 00:25:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3335-Great Bend-
 Interval: **3166.00 ft (KB) To 3240.00 ft (KB) (TVD)**
 Reference Elevations: 1914.00 ft (KB)
 Total Depth: 3240.00 ft (KB) (TVD) 1901.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 8525

Press@RunDepth: 1012.31 psig @ ft (KB) Capacity: 5000.00 psig
 Start Date: 2014.05.19 End Date: 2014.05.20 Last Calib.: 2014.05.20
 Start Time: 13:55:00 End Time: 00:25:00 Time On Btm: 2014.05.19 @ 19:27:30
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 2nd Opening 45 Minutes-Weak blow built 1 inch from bottom of bucket in 45 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1662.73	112.02	Initial Hydro-static
1	78.21	111.39	Open To Flow (1)
17	137.96	111.63	Shut-In(1)
62	1029.09	113.78	End Shut-In(1)
63	149.50	113.62	Open To Flow (2)
106	231.49	114.70	Shut-In(2)
199	1012.31	115.51	End Shut-In(2)
201	1615.12	115.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	mud w water 10 % mud 90%w water	1.48
30.00	spot oil mud 1%oil 99%mud	0.15
0.00	chlorides 68,000	0.00

Gas Rates

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



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TOOL DIAGRAM

Shelby Resources L.L.C
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23-18-14 Barton
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Tool Information

Drill Pipe:	Length: 2828.00 ft	Diameter: 3.80 inches	Volume: 39.67 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: 330.00 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 41.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3166.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	102.00 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			3143.00	
Hydraulic Tool	5.00			3148.00	
Jars	6.00			3154.00	
Safety Joint	2.00			3156.00	
Top Packer	5.00			3161.00	
Packer	5.00			3166.00	28.00 Bottom Of Top Packer
Anchor	0.00			3166.00	
Change Over Sub	0.75			3166.75	
Drill Pipe	30.50			3197.25	
Change Over Sub	0.75			3198.00	
Anchor	37.00			3235.00	
Recorder	1.00		Inside	3236.00	
Recorder	1.00		Outside	3237.00	
Bull Plug	3.00			3240.00	74.00 Anchor Tool

Total Tool Length: 102.00



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FLUID SUMMARY

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Mud and Cushion Information

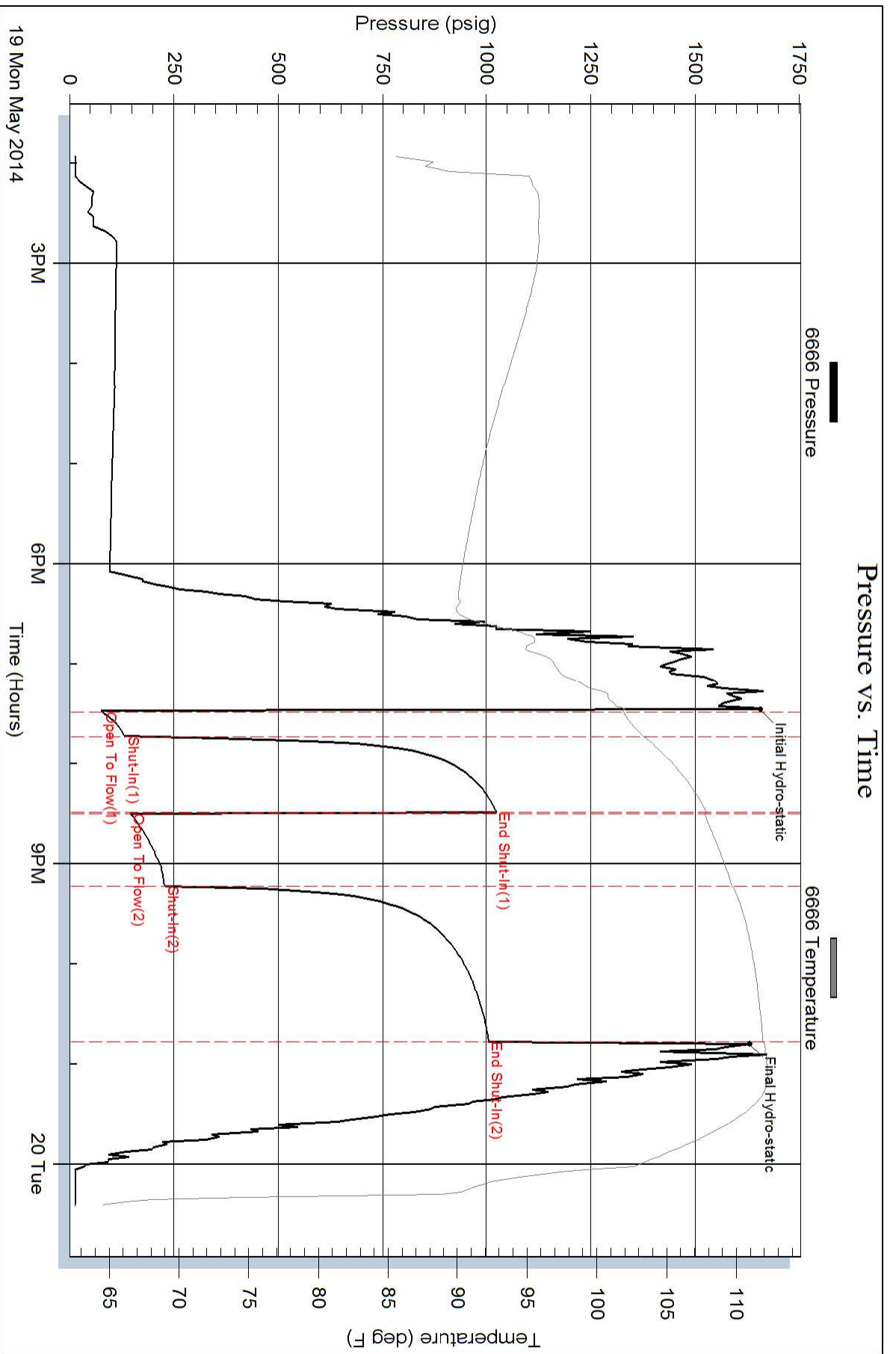
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	mud w ater 10 % mud 90%w ater	1.475
30.00	spot oil mud 1%oil 99%mud	0.148
0.00	chlorides 68,000	0.000

Total Length: 330.00 ft Total Volume: 1.623 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: chlorides 68,000



Pressure vs. Time

