



DRILL STEM TEST REPORT

Prepared For: **Bengalia Land and Cattle Company**

PO Box 521008
Tulsa, Oklahoma
74152+1008

ATTN:

Myles McGehee #1-7

7/25S/30W/Gray

Start Date: 2014.06.02 @ 17:51:00

End Date: 2014.06.03 @ 04:22:00

Job Ticket #: 18267 DST #: 2

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

Printed: 2014.06.03 @ 04:36:29



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ATTN:

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Job Ticket: 18267 **DST#: 2**
Test Start: 2014.06.02 @ 17:51:00

GENERAL INFORMATION:

Formation: **Morrow/Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:59:30

Time Test Ended: 04:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Scott City/110

Interval: 4770.00 ft (KB) To 4873.00 ft (KB) (TVD)

Total Depth: 4873.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Fair

Reference Elevations: 2837.00 ft (KB)

2827.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6749

Inside

Press@RunDepth: 123.07 psig @ 4869.23 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.06.02

End Date: 2014.06.03

Last Calib.: 2014.06.03

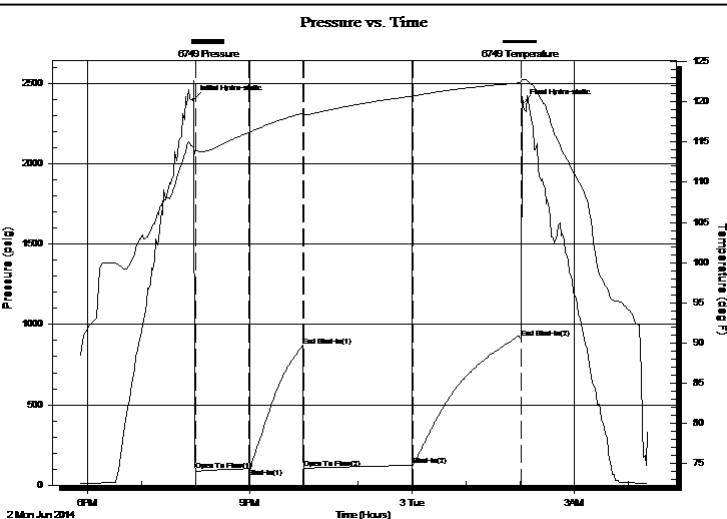
Start Time: 17:51:00

End Time: 04:22:00

Time On Btm: 2014.06.02 @ 19:57:00

Time Off Btm: 2014.06.03 @ 02:03:00

TEST COMMENT: 1ST Open 60 Minutes/Good blow/Blow built to bottom of bucket in 8 minutes
1ST Shut In 60 Minutes/No blow back
2ND Open 120 Minutes/Strong blow/Blow built to bottom of bucket in 1 minute then slow ed to slow build
2ND Shut In 120 Minutes/Surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2395.36	114.29	Initial Hydro-static
3	89.28	114.13	Open To Flow (1)
63	102.02	116.19	Shut-In(1)
122	868.55	118.56	End Shut-In(1)
123	103.35	118.38	Open To Flow (2)
244	123.07	120.71	Shut-In(2)
364	916.18	122.36	End Shut-In(2)
366	2376.49	122.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2230 feet of gas in pipe	0.00
45.00	Clean gassy Oil/Gas 40% Oil 60%	0.63
65.00	Gas cut Oily Mud/Gas 5% Oil 20% Mud	7:0.91

Gas Rates

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



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Unit No: 3325 Scott City/110

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Reference Elevations: 2837.00 ft (KB)

Total Depth: 4873.00 ft (KB) (TVD)

2827.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8938 Outside

Press@RunDepth: 915.55 psig @ 4870.23 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.06.02

End Date:

2014.06.03

Last Calib.:

2014.06.03

Start Time:

17:51:00

End Time:

04:21:30

Time On Btm:

2014.06.02 @ 19:56:30

Time Off Btm:

2014.06.03 @ 02:02:30

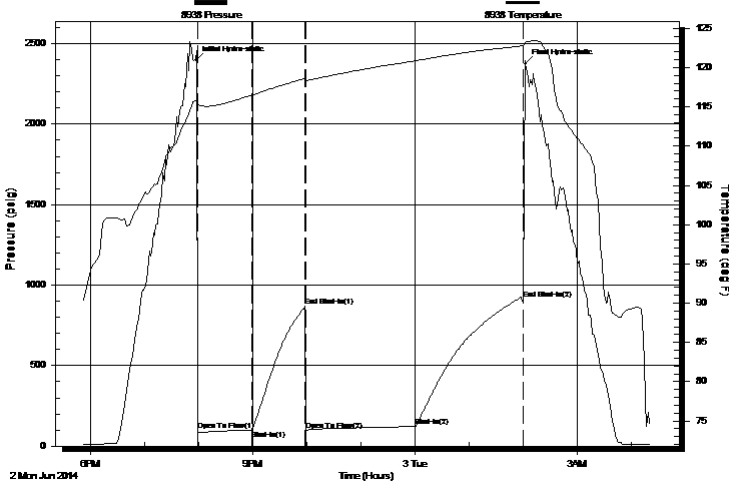
TEST COMMENT: 1ST Open 60 Minutes/Good blow/Blow built to bottom of bucket in 8 minutes

1ST Shut In 60 Minutes/No blow back

2ND Open 120 Minutes/Strong blow/Blow built to bottom of bucket in 1 minute then slow ed to slow build

2ND Shut In 120 Minutes/Surface blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2395.42	115.76	Initial Hydro-static
2	98.69	114.76	Open To Flow (1)
62	100.65	116.47	Shut-In(1)
122	868.05	118.60	End Shut-In(1)
123	100.33	118.40	Open To Flow (2)
244	122.28	120.85	Shut-In(2)
364	915.55	122.77	End Shut-In(2)
366	2374.65	123.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2230 feet of gas in pipe	0.00
45.00	Clean gassy Oil/Gas 40% Oil 60%	0.63
65.00	Gas cut Oily Mud/Gas 5% Oil 20% Mud	7:0.91

Gas Rates

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



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TOOL DIAGRAM

Bengalia Land and Cattle Company

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DST#: 2

Test Start: 2014.06.02 @ 17:51:00

Tool Information

Drill Pipe:	Length: 4750.00 ft	Diameter: 3.80 inches	Volume: 66.63 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	105000.0 lb
			<u>Total Volume: 66.63 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	84000.00 lb
Depth to Top Packer:	4770.00 ft			Final	85000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	103.23 ft				
Tool Length:	131.23 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Shale packer used

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4747.00	
Hydraulic tool	5.00			4752.00	
Jars	6.00			4758.00	
Safety Joint	2.00			4760.00	
Top Packer	5.00			4765.00	
Packer	5.00			4770.00	28.00 Bottom Of Top Packer
Anchor	6.00			4776.00	
Change Over Sub	0.75			4776.75	
Drill Pipe	61.73			4838.48	
Change Over Sub	0.75			4839.23	
Anchor	29.00			4868.23	
Recorder	1.00	6749	Inside	4869.23	
Recorder	1.00	8938	Outside	4870.23	
Bullnose	3.00			4873.23	103.23 Anchor Tool

Total Tool Length: 131.23



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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: 45.00 sec/qt
Water Loss: 8.80 in³
Resistivity: ohm.m
Salinity: 4800.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2230 feet of gas in pipe	0.000
45.00	Clean gassy Oil/Gas 40% Oil 60%	0.631
65.00	Gas cut Oily Mud/Gas 5% Oil 20% Mud 75%	0.912

Total Length: 110.00 ft Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

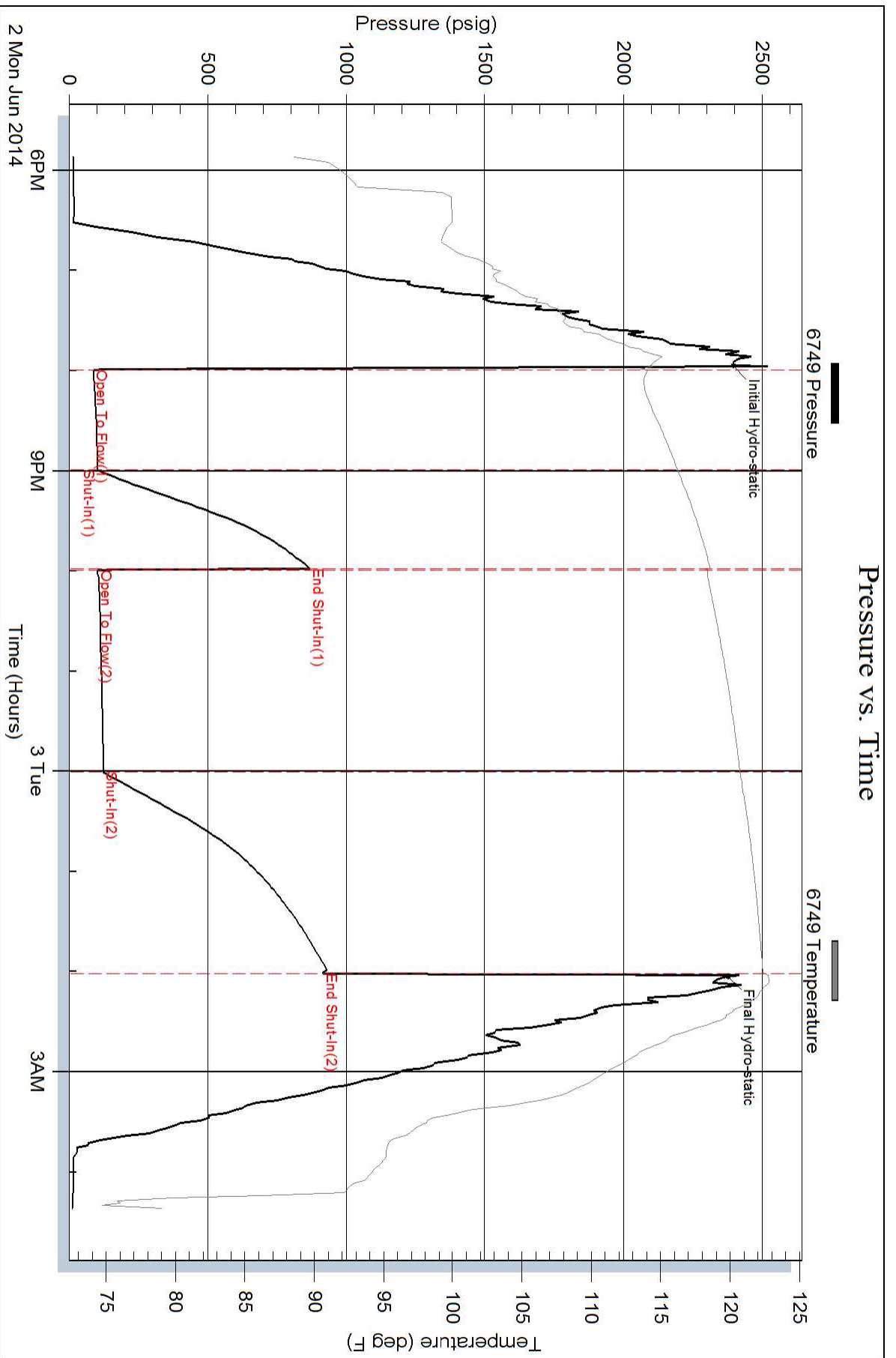
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

