



DRILL STEM TEST REPORT

Prepared For: **LB Exploration**

2135 2nd RD. Holyrood
Kansas 67450

ATTN: Steven Petermann

Wolkins 15 #1

15-33s-13w-Barber

Start Date: 2012.04.08 @ 01:05:00

End Date: 2012.04.08 @ 10:25:00

Job Ticket #: 17282 DST #: 3

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

Printed: 2012.04.08 @ 22:37:16

LB Exploration
15-33s-13w-Barber
Wolkins 15 #1
DST # 3
Mississippi
2012.04.08



DRILL STEM TEST REPORT

LB Exploration

15-33s-13w-Barber

2135 2nd RD. Holyrood
Kansas 67450

Wolkins 15 #1

Job Ticket: 17282

DST#: 3

ATTN: Steven Petermann

Test Start: 2012.04.08 @ 01:05:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:59:00

Time Test Ended: 10:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Pratt-80

Interval: 4486.00 ft (KB) To 4548.00 ft (KB) (TVD)

Reference Elevations: 1612.00 ft (KB)

Total Depth: 4548.00 ft (KB) (TVD)

1598.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 14.00 ft

Serial #: 8400 Inside

Press @ RunDepth: 81.87 psia @ 4544.34 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.04.08

End Date: 2012.04.08

Last Calib.: 2012.04.08

Start Time: 01:05:00

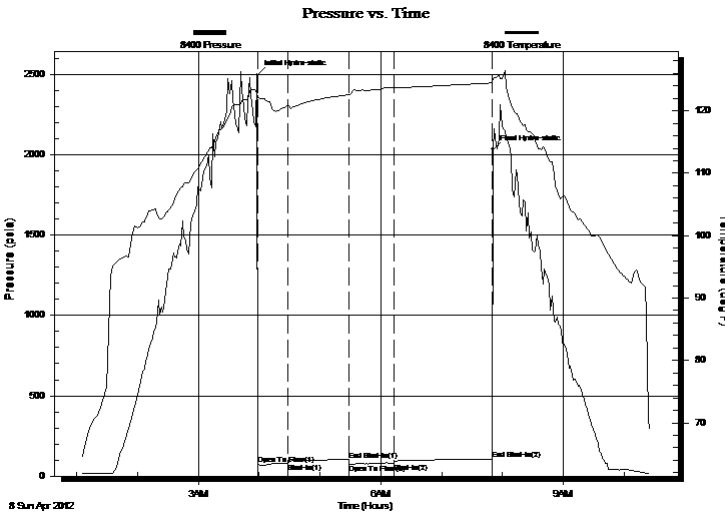
End Time: 10:25:00

Time On Btm: 2012.04.08 @ 03:58:30

Time Off Btm: 2012.04.08 @ 07:50:30

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 3 minutes
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Strong blow blew bottom bucket 1 minute.
2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2497.56	122.91	Initial Hydro-static
1	72.41	122.18	Open To Flow (1)
30	82.02	120.84	Shut-In(1)
90	101.44	122.57	End Shut-In(1)
90	75.07	122.57	Open To Flow (2)
134	81.87	123.71	Shut-In(2)
232	102.49	124.48	End Shut-In(2)
232	2032.07	125.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	Drilling mud 100%	0.90

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	3.70	24.96
Last Gas Rate	0.38	5.50	20.15
Max. Gas Rate	0.38	5.50	20.15



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Wolkins 15 #1

Job Ticket: 17282

DST#: 3

ATTN: Steven Petermann

Test Start: 2012.04.08 @ 01:05:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:59:00

Time Test Ended: 10:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Pratt-80

Interval: 4486.00 ft (KB) To 4548.00 ft (KB) (TVD)

Reference Elevations: 1612.00 ft (KB)

Total Depth: 4548.00 ft (KB) (TVD)

1598.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 14.00 ft

Serial #: 6663 Outside

Press @ RunDepth: 104.80 psia @ 4545.34 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.04.08

End Date: 2012.04.08

Last Calib.: 2012.04.08

Start Time: 01:05:31

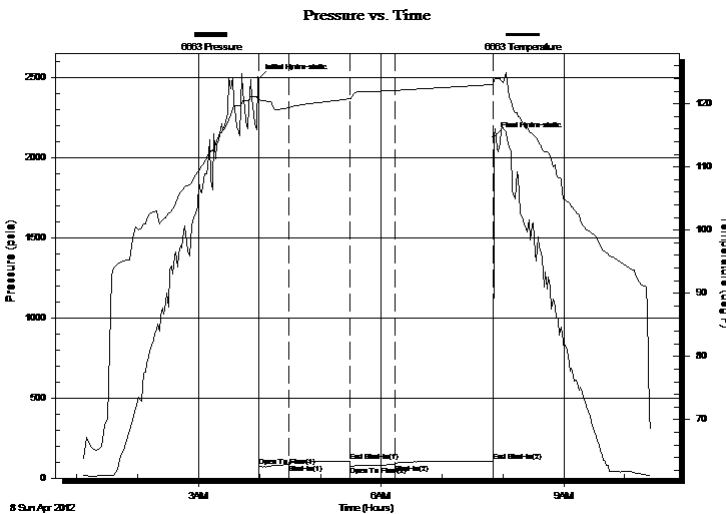
End Time: 10:25:31

Time On Btm: 2012.04.08 @ 03:59:01

Time Off Btm: 2012.04.08 @ 07:51:01

TEST COMMENT: 1st Open 30 minutes Strong building blow blew bottom bucket 3 minutes
1st Shut in 60 minutes No blow back
2nd Open 45 minutes Strong blow blew bottom bucket 1 minute.
2nd Shut in 90 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2495.70	121.37	Initial Hydro-static
1	73.99	120.77	Open To Flow (1)
30	83.71	119.36	Shut-In(1)
90	103.31	120.77	End Shut-In(1)
90	73.43	120.76	Open To Flow (2)
134	83.69	122.11	Shut-In(2)
232	104.80	123.05	End Shut-In(2)
232	2131.25	123.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	Drilling mud 100%	0.90

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	3.70	24.96
Last Gas Rate	0.38	5.50	20.15
Max. Gas Rate	0.38	5.50	20.15



DRILL STEM TEST REPORT

TOOL DIAGRAM

LB Exploration

15-33s-13w-Barber

2135 2nd RD. Holyrood
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DST#: 3

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Test Start: 2012.04.08 @ 01:05:00

Tool Information

Drill Pipe:	Length: 4471.00 ft	Diameter: 3.80 inches	Volume: 62.72 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: 80000.00 lb
			Total Volume: 62.72 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4486.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.34 ft			
Tool Length:	90.34 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			4463.00	
Hydraulic Tool	5.00			4468.00	
Jars	6.00			4474.00	
Safety Joint	2.00			4476.00	
Packer	5.00			4481.00	28.00 Bottom Of Top Packer
Packer	5.00			4486.00	
Perforations	5.00			4491.00	
Change Over Sub	0.75			4491.75	
Drill Pipe	31.84			4523.59	
Change Over Sub	0.75			4524.34	
Perforations	19.00			4543.34	
Recorder	1.00	8400	Inside	4544.34	
Recorder	1.00	6663	Outside	4545.34	
Bull Plug	3.00			4548.34	62.34 Bottom Packers & Anchor

Total Tool Length: 90.34



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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: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	Drilling mud 100%	0.898

Total Length: 64.00 ft Total Volume: 0.898 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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GAS RATES

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Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	10	0.50	3.70	24.96
1	10	0.50	3.70	24.96
1	10	0.50	3.70	24.96
2	20	0.38	5.50	20.15

Pressure vs. Time

