



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: 2012.04.09 @ 11:36:00

End Date: 2012.04.09 @ 18:38:00

Job Ticket #: 17283 DST #: 4

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

Printed: 2012.04.10 @ 06:50:37

LB Exploration
15-33s-13w-Barber
Wolkins 15 #1
DST # 4
Woodfork/Viola
2012.04.09



DRILL STEM TEST REPORT

LB Exploration

15-33s-13w-Barber

2135 2nd RD. Holyrood
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Wolkins 15 #1

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DST#: 4

ATTN: Steven Petermann

Test Start: 2012.04.09 @ 11:36:00

GENERAL INFORMATION:

Formation: **Woodfork/Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:29:00

Time Test Ended: 18:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315-Pratt-80

Interval: 4788.00 ft (KB) To 4830.00 ft (KB) (TVD)

Reference Elevations: 1612.00 ft (KB)

Total Depth: 4830.00 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 @ Run Depth: 54.31 psia @ 4826.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.04.09

End Date: 2012.04.09

Last Calib.: 2012.04.10

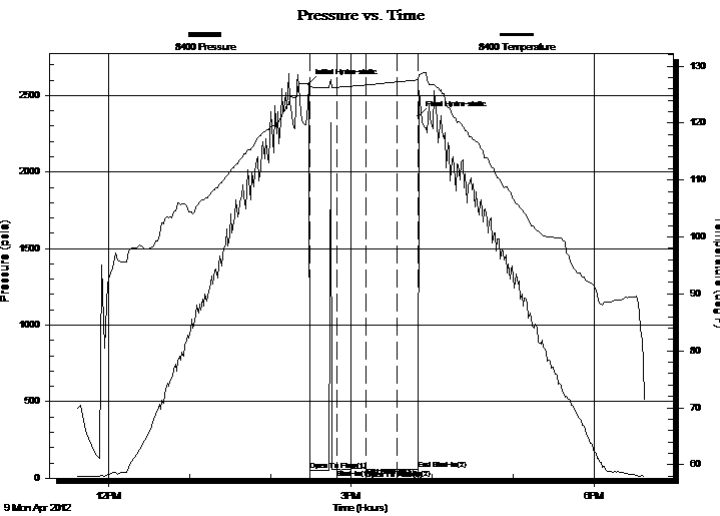
Start Time: 11:36:00

End Time: 18:38:00

Time On Btm: 2012.04.09 @ 14:28:30

Time Off Btm: 2012.04.09 @ 15:50:00

TEST COMMENT: 1st Open 20 minutes Very weak surge then died off. flushed tool no help
1st Shut in 20 minutes No blow back
2nd Open 20 minutes Dead
2nd Shut in 20 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2575.78	127.06	Initial Hydro-static
1	53.51	126.31	Open To Flow (1)
21	54.57	126.30	Shut-In(1)
42	68.66	126.69	End Shut-In(1)
43	53.62	126.69	Open To Flow (2)
65	54.31	127.22	Shut-In(2)
81	59.77	127.59	End Shut-In(2)
82	2366.32	128.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drilling mud 100%	0.03

Gas Rates

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



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Reference Elevations: 1612.00 ft (KB)

Total Depth: 4830.00 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: 62.20 psia @ 4827.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.04.09

End Date: 2012.04.09

Last Calib.: 2012.04.10

Start Time: 11:36:00

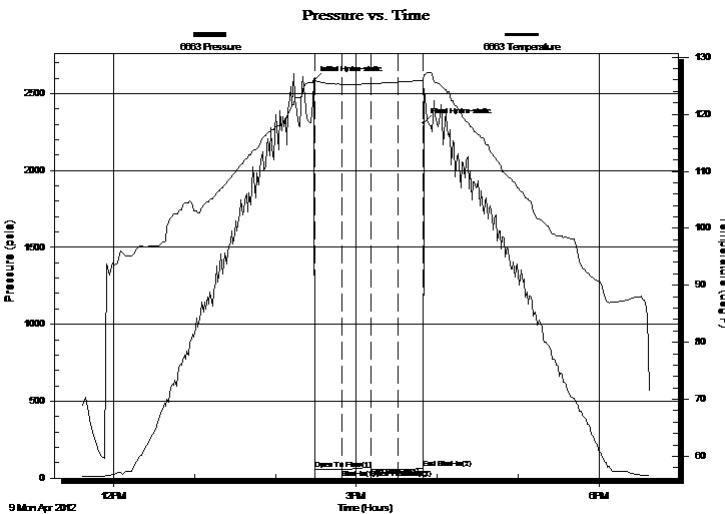
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TEST COMMENT: 1st Open 20 minutes Very weak surge then died off. flushed tool no help
1st Shut in 20 minutes No blow back
2nd Open 20 minutes Dead
2nd Shut in 20 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2582.32	126.25	Initial Hydro-static
1	55.27	125.75	Open To Flow (1)
21	56.57	125.26	Shut-In(1)
42	71.49	125.36	End Shut-In(1)
43	55.48	125.36	Open To Flow (2)
63	55.79	125.63	Shut-In(2)
81	62.20	125.94	End Shut-In(2)
82	2308.40	126.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drilling mud 100%	0.03

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

LB Exploration

15-33s-13w-Barber

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DST#: 4

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Test Start: 2012.04.09 @ 11:36:00

Tool Information

Drill Pipe:	Length: 4778.00 ft	Diameter: 3.80 inches	Volume: 67.02 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: 62000.00 lb
			<u>Total Volume: 67.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4788.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 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			4765.00	
Hydraulic Tool	5.00			4770.00	
Jars	6.00			4776.00	
Safety Joint	2.00			4778.00	
Packer	5.00			4783.00	28.00 Bottom Of Top Packer
Packer	5.00			4788.00	
Perforations	37.00			4825.00	
Recorder	1.00	8400	Inside	4826.00	
Recorder	1.00	6663	Outside	4827.00	
Bull Plug	3.00			4830.00	42.00 Bottom Packers & Anchor
Total Tool Length:	70.00				



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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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Drilling mud 100%	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

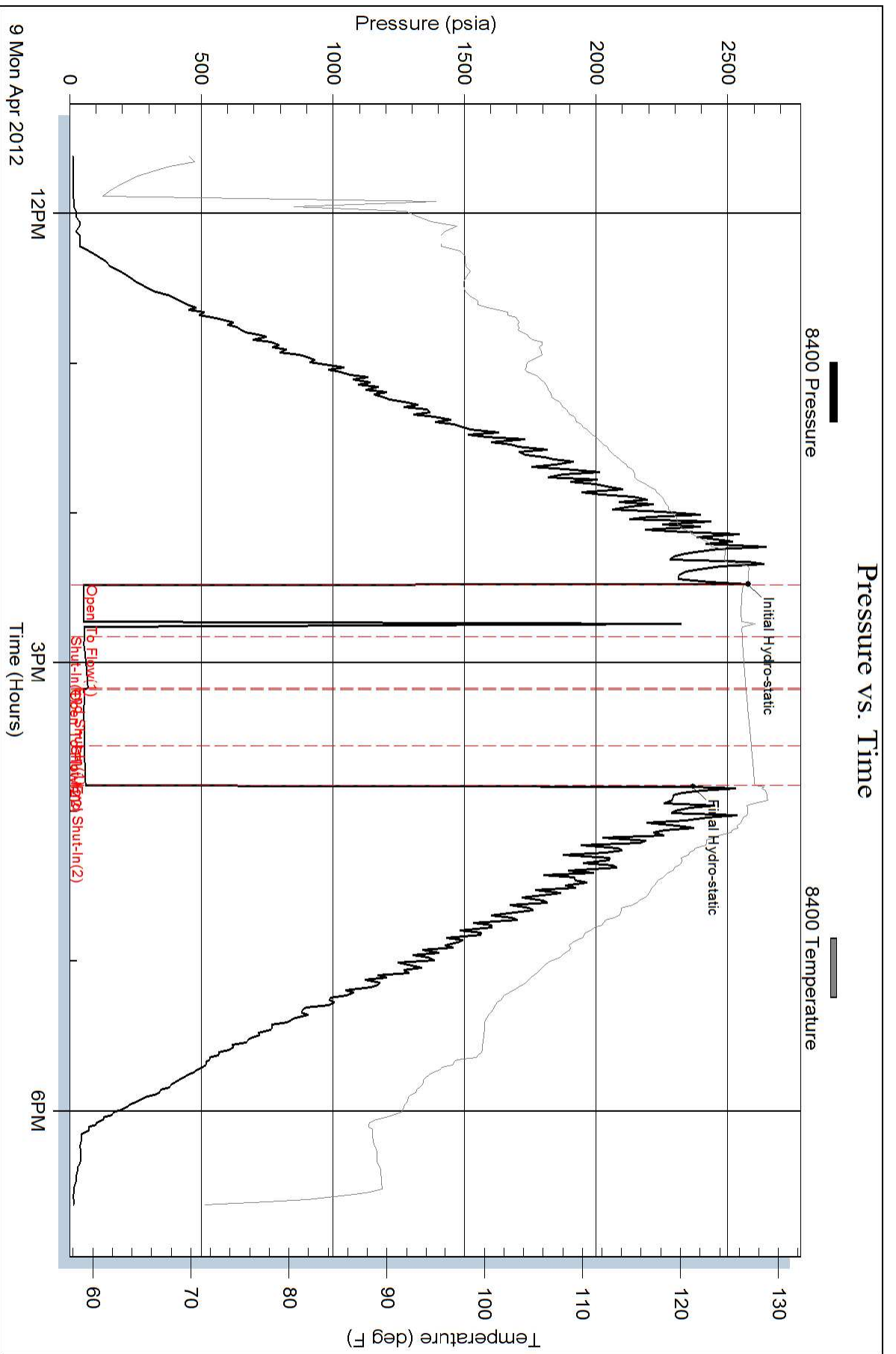
Serial #: 8400

Inside

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Pressure vs. Time

