



DRILL STEM TEST REPORT

Prepared For: **F.G Holl**

9431 East Central Suite 100
Wichita Kansas 67206

ATTN: Frank Greenbaum

Lenkner 1-29

29-30s-13w-Barber

Start Date: 2011.12.31 @ 01:45:00

End Date: 2011.12.31 @ 06:31:00

Job Ticket #: 17246 DST #: 2

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

Printed: 2011.12.31 @ 09:30:03

F.G Holl
29-30s-13w-Barber
Lenkner 1-29
DST # 2
Indian Cave
2011.12.31



DRILL STEM TEST REPORT

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 Wichita Kansas 67206
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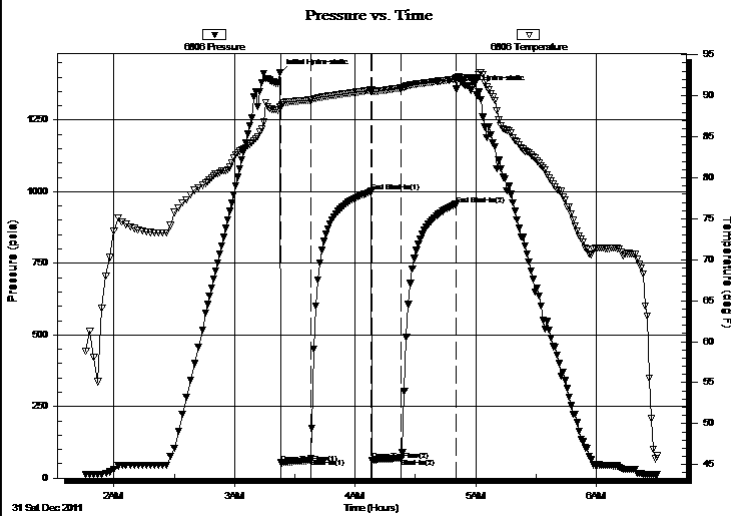
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17246 **DST#: 2**
 Test Start: 2011.12.31 @ 01:45:00

GENERAL INFORMATION:

Formation: **Indian Cave**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:23:00
 Time Test Ended: 06:31:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315 GB-70
 Interval: **2910.00 ft (KB) To 2964.00 ft (KB) (TVD)**
 Reference Elevations: 1921.00 ft (KB)
 Total Depth: 2964.00 ft (KB) (TVD) 1913.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 6806 Inside
 Press @ RunDepth: 69.94 psia @ 2960.38 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.12.31 End Date: 2011.12.31 Last Calib.: 2011.12.31
 Start Time: 01:45:00 End Time: 06:31:00 Time On Btm: 2011.12.31 @ 03:22:30
 Time Off Btm: 2011.12.31 @ 04:50:30

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 2 inches into bucket
 1st Shut in 30 minutes No blow back
 2nd Open 15 minutes Weak blow blew 1.5 inches
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1413.85	88.64	Initial Hydro-static
1	53.26	88.63	Open To Flow (1)
16	70.13	89.51	Shut-In(1)
46	1000.88	90.70	End Shut-In(1)
46	63.16	90.50	Open To Flow (2)
61	69.94	90.98	Shut-In(2)
88	955.52	92.03	End Shut-In(2)
88	1358.02	92.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100%	0.49

Gas Rates

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



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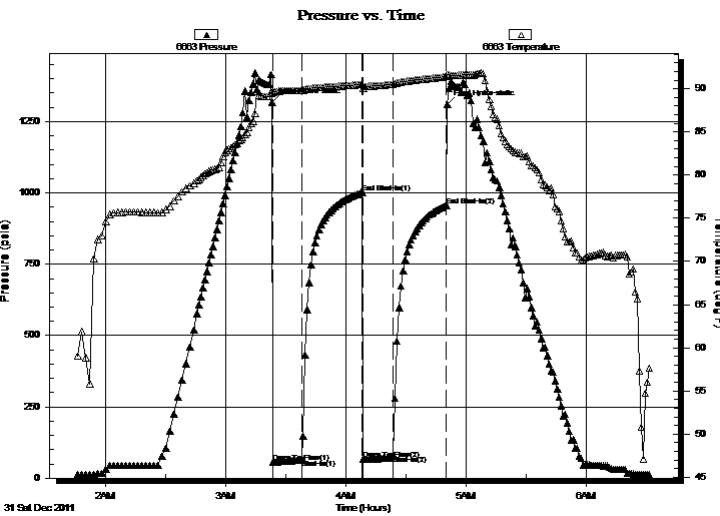
29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17246 **DST#: 2**
 Test Start: 2011.12.31 @ 01:45:00

GENERAL INFORMATION:

Formation: Indian Cave	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Dustin Ellis
Time Tool Opened: 03:23:00	Unit No: 3315 GB-70
Time Test Ended: 06:31:00	Reference Elevations: 1921.00 ft (KB)
Interval: 2910.00 ft (KB) To 2964.00 ft (KB) (TVD)	1913.00 ft (CF)
Total Depth: 2964.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

Serial #: 6663	Outside	Capacity: 5000.00 psia
Press @ RunDepth: 956.38 psia @ 2961.38 ft (KB)	Last Calib.: 2011.12.31	
Start Date: 2011.12.31	End Date: 2011.12.31	Time On Btm: 2011.12.31 @ 03:23:00
Start Time: 01:45:00	End Time: 06:31:30	Time Off Btm: 2011.12.31 @ 04:50:30

TEST COMMENT: 1st Open 15 minutes Weak building blow built to 2 inches into bucket
 1st Shut in 30 minutes No blow back
 2nd Open 15 minutes Weak blow blew 1.5 inches
 2nd Shut in 30 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1316.77	89.78	Initial Hydro-static
1	55.87	89.57	Open To Flow (1)
15	65.40	89.81	Shut-In(1)
46	1001.86	90.49	End Shut-In(1)
46	64.88	90.07	Open To Flow (2)
61	80.16	90.50	Shut-In(2)
87	956.38	91.38	End Shut-In(2)
88	1309.16	91.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100%	0.49

Gas Rates

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



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TOOL DIAGRAM

F.G Holl
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29-30s-13w-Barber
Lenkner 1-29
 Job Ticket: 17246 **DST#: 2**
 Test Start: 2011.12.31 @ 01:45:00

Tool Information

Drill Pipe:	Length: 2896.00 ft	Diameter: 3.80 inches	Volume: 40.62 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:	51000.00 lb
			<u>Total Volume: 40.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	2910.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.38 ft				
Tool Length:	82.38 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			2887.00	
Hydraulic Tool	5.00			2892.00	
Jars	6.00			2898.00	
Safety Joint	2.00			2900.00	
Packer	5.00			2905.00	28.00 Bottom Of Top Packer
Packer	5.00			2910.00	
Perforations	0.00			2910.00	
Change Over Sub	0.75			2910.75	
Drill Pipe	30.88			2941.63	
Change Over Sub	0.75			2942.38	
Perforations	17.00			2959.38	
Recorder	1.00	6806	Inside	2960.38	
Recorder	1.00	6663	Outside	2961.38	
Bull Plug	3.00			2964.38	54.38 Bottom Packers & Anchor

Total Tool Length: 82.38



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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: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Mud 100%	0.491

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

