



DRILL STEM TEST REPORT

Prepared For: **Captiva**

2717 Canal Blvd. Suite C
Hays Kansas 67601

ATTN: Charlie Sturdavant

7/22S/16W Pawnee

Eakin Unit # 1-7

Start Date: 2011.11.23 @ 19:23:00

End Date: 2011.11.24 @ 02:57:35

Job Ticket #: 16023 DST #: 6

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

Printed: 2011.01.25 @ 03:30:15

Captiva | Eakin Unit # 1-7 | 7/22S/16W Pawnee | DST # 6 | ARBUCKLE | 2011.11.23



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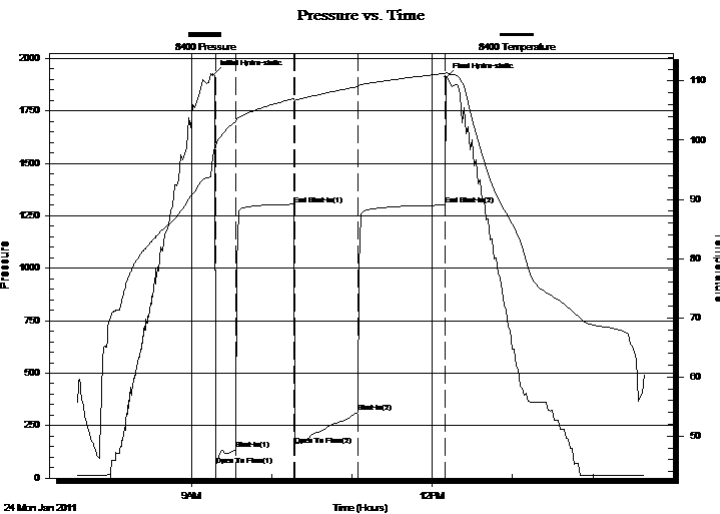
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GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:34:05
 Time Test Ended: 02:57:35
 Interval: **3910.00 ft (KB) To 3918.00 ft (KB) (TVD)**
 Total Depth: 3918.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3345-GREAT BEND-50
 Reference Elevations: 2018.00 ft (KB)
 2007.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 1300.66 psia @ 3915.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.24 End Date: 2011.01.24 Last Calib.: 2011.01.25
 Start Time: 07:35:00 End Time: 14:39:00 Time On Btm: 2011.01.24 @ 09:16:30
 Time Off Btm: 2011.01.24 @ 12:10:00

TEST COMMENT: 15/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 45/INITIAL SHUT IN:BOTTOOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 60/FINAL SHUT IN:BOTTOOM OF BUCKET BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1920.94	97.83	Initial Hydro-static
2	60.09	98.81	Open To Flow (1)
17	136.28	103.10	Shut-In(1)
60	1304.82	107.00	End Shut-In(1)
61	159.03	106.72	Open To Flow (2)
108	313.27	109.03	Shut-In(2)
173	1300.66	111.31	End Shut-In(2)
174	1910.08	111.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Oil Cut Muddy Water	0.59
0.00	5%Gas 10%Oil 30%Mud 55%Water	0.00
60.00	Oil and Gas cut muddy w ater	0.30
0.00	10%Gas 10%Oil 30%Mud 50%Water	0.00
60.00	Clean gassy oil 15% gas 85%Oil	0.30
550.00	Clean Gassy Oil 10%Gas 90% Oil	7.54

Gas Rates

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



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3629.00 ft	Diameter: 3.80 inches	Volume: 50.91 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: 259.00 ft	Diameter: 2.25 inches	Volume: 1.27 bbl	Weight to Pull Loose:	105000.0 lb
			<u>Total Volume: 52.18 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	3910.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	8.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: chased tool 6 feet to bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3882.00	
Shut-In Tool	5.00			3887.00	
Hydraulic Tool	5.00			3892.00	
Jars	6.00			3898.00	
Safety Joint	2.00			3900.00	
Packer	5.00			3905.00	29.00 Bottom Of Top Packer
Packer	5.00			3910.00	
Perforations	3.00			3913.00	
Recorder	1.00	8405	Inside	3914.00	
Recorder	1.00	8400	Outside	3915.00	
Bullnose	3.00			3918.00	8.00 Bottom Packers & Anchor

Total Tool Length: 37.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 47 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psia	
Salinity: 7400.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Oil Cut Muddy Water	0.590
0.00	5%Gas 10%Oil 30%Mud 55%Water	0.000
60.00	Oil and Gas cut muddy water	0.295
0.00	10%Gas 10%Oil 30%Mud 50%Water	0.000
60.00	Clean gassy oil 15% gas 85%Oil	0.295
550.00	Clean Gassy Oil 10%Gas 90% Oil	7.542
0.00	2880 Gas in the pipe	0.000
0.00	Chlorides 18000	0.000
0.00	Resistivity .2 @ 78000	0.000
0.00	Gravity 47 Corrected	0.000

Total Length: 790.00 ft Total Volume: 8.722 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: chased tool 6 feet to boottom

Pressure vs. Time

