



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: 2011.01.23 @ 14:45:00

End Date: 2011.01.23 @ 22:19:35

Job Ticket #: 16022 DST #: 5

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

Printed: 2011.01.23 @ 22:46:38

Captiva Eakin Unit # 1-7 7/22S/16W Pawnee DST # 5 ARBCKLE 2011.01.23



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Captiva
 2717 Canal Blvd. Suite C
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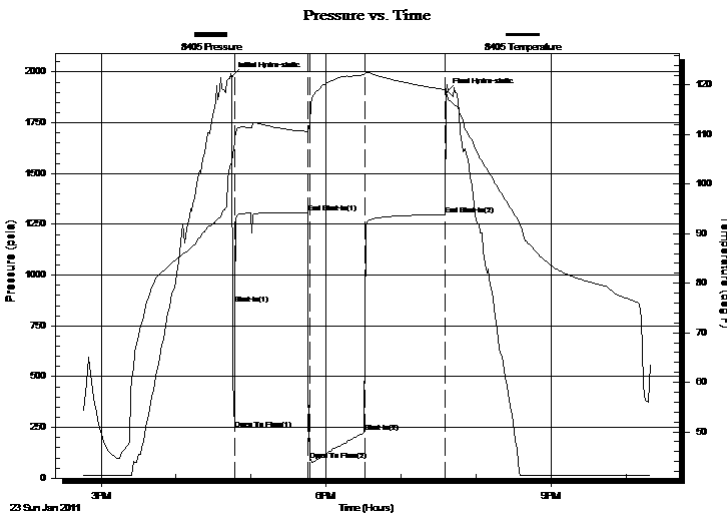
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 Test Start: 2011.01.23 @ 14:45:00

GENERAL INFORMATION:

Formation: **ARBCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:46:35
 Time Test Ended: 22:19:35
 Interval: **3897.00 ft (KB) To 3906.00 ft (KB) (TVD)**
 Total Depth: 3906.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-GREAT BEND-50
 Reference Elevations: 2018.00 ft (KB)
 2007.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 224.23 psia @ 3902.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.23 End Date: 2011.01.23 Last Calib.: 2011.01.23
 Start Time: 14:45:00 End Time: 22:19:35 Time On Btm: 2011.01.23 @ 16:44:35
 Time Off Btm: 2011.01.23 @ 19:36:05

TEST COMMENT: 15/INITIAL OPEN:WEAK BLOW BUILT 2 1/4 INCHES INTO BUCKET WATER DIED OFF AFTER 8 MINUTES
 45/INITIAL SHUT IN :NO BLOW BACK
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET WATER IN 2 MINUTES
 60/FINAL SHUT IN:BLOW BACK BOTTOM OF BUCKET



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1977.50	104.27	Initial Hydro-static
2	242.44	108.37	Open To Flow (1)
3	857.88	109.55	Shut-In(1)
61	1306.46	110.63	End Shut-In(1)
62	88.09	112.30	Open To Flow (2)
106	224.23	122.08	Shut-In(2)
171	1298.11	119.08	End Shut-In(2)
172	1897.72	118.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SLIGHTLEY GASSEY MUD CUT OIL	0.30
0.00	2%GAS 10%MUD 88%OIL	0.00
420.00	CLEAN GASSY OIL 15%GAS 85%OIL	4.08
0.00	2280 GAS IN PIPE	0.00

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:	86000.00 lb
			<u>Total Volume: 52.18 bbl</u>	Tool Chased	6.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	3897.00 ft			Final	75500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	38.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: TOOL CHASED 6 FEET TO BOTTOM / 15 STANDS OUT OF HOLE HIT GAS/

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3869.00	
Shut-In Tool	5.00			3874.00	
Hydraulic Tool	5.00			3879.00	
Jars	6.00			3885.00	
Safety Joint	2.00			3887.00	
Packer	5.00			3892.00	29.00 Bottom Of Top Packer
Packer	5.00			3897.00	
Perforations	4.00			3901.00	
Recorder	1.00	8405	Inside	3902.00	
Recorder	1.00	8400	Outside	3903.00	
Bullnose	3.00			3906.00	9.00 Bottom Packers & Anchor

Total Tool Length: 38.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 48 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.80 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
60.00	SLIGHTLEY GASSEY MUD CUT OIL	0.295
0.00	2%GAS 10%MUD 88%OIL	0.000
420.00	CLEAN GASSY OIL 15%GAS 85%OIL	4.079
0.00	2280 GAS IN PIPE	0.000

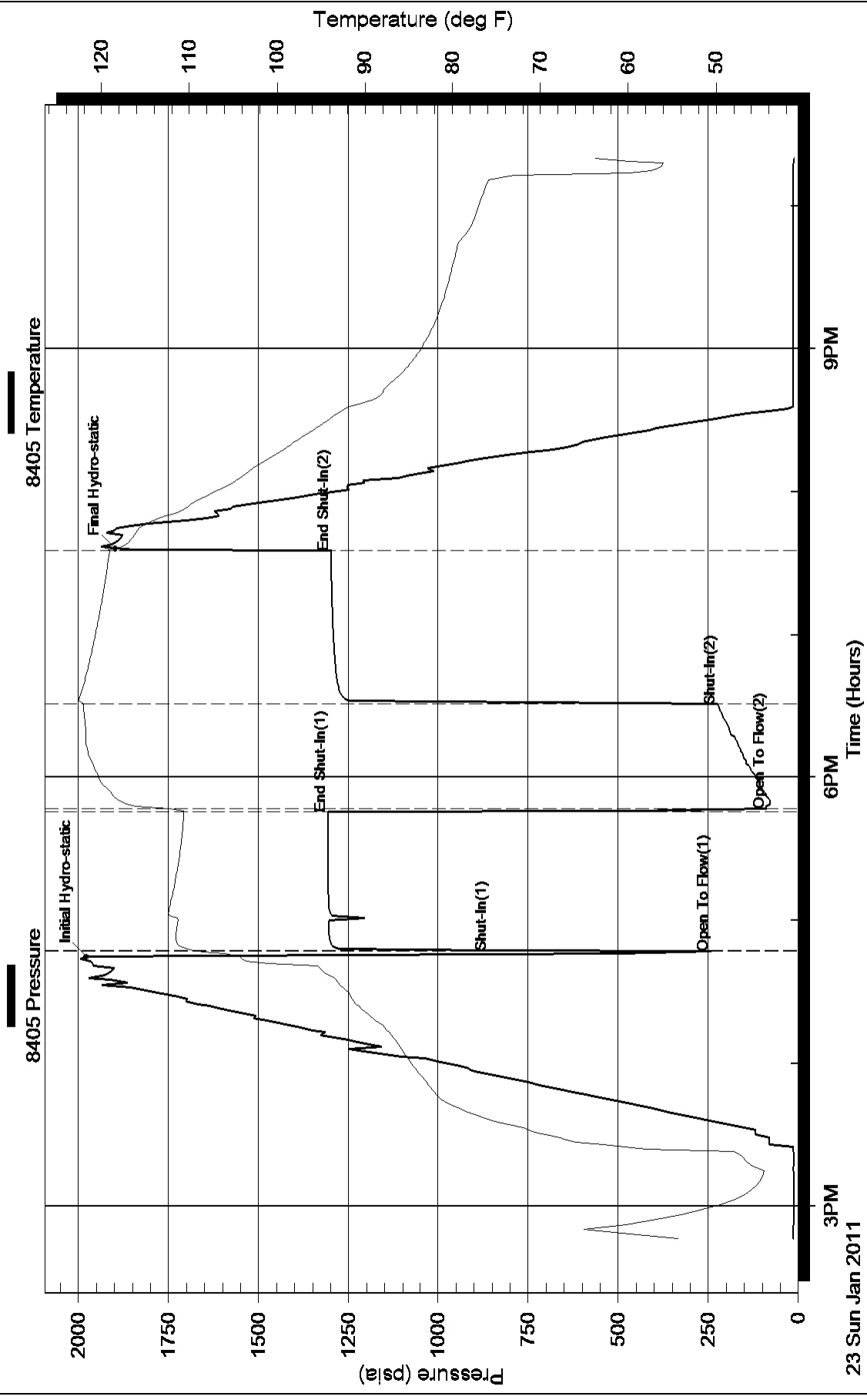
Total Length: 480.00 ft Total Volume: 4.374 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: TOOL CHASED 6 FEET TO BOTTOM / 15 STANDS OUT OF HOLE HIT GAS/ GRAVITY OIL 48

Pressure vs. Time



Serial #: 8400

Outside Captiva

7/22S/16W Pawnee

DST Test Number: 5

Pressure vs. Time

