



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: 2011.01.22 @ 23:25:00

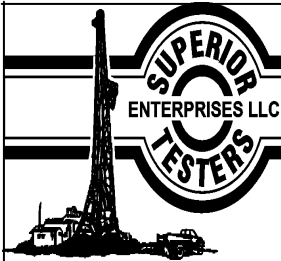
End Date: 2011.01.23 @ 07:12:06

Job Ticket #: 16021 DST #: 4

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

Printed: 2011.01.23 @ 07:30:03

Captiva | Eakin Unit # 1-7 | 7/22S/16W Pawnee | DST # 4 | ARBUCKLE | 2011.01.22



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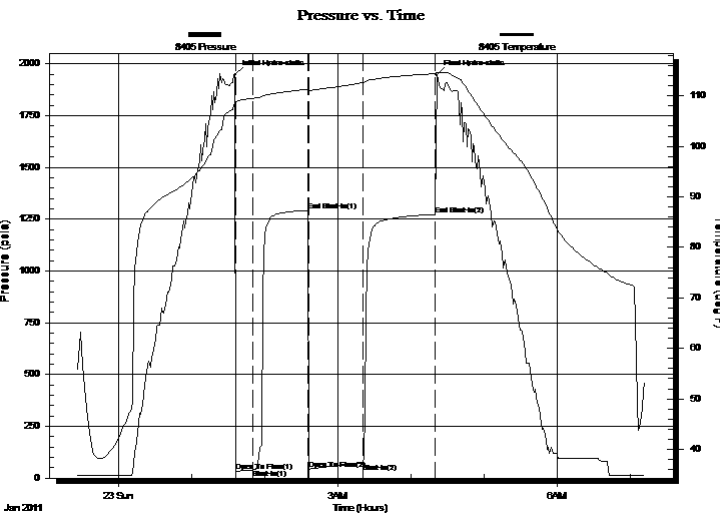
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16021 **DST#: 4**
 Test Start: 2011.01.22 @ 23:25:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:36:06 Tester: JARED SCHECK
 Time Test Ended: 07:12:06 Unit No: 3320-GREAT BEND-50
 Interval: **3888.00 ft (KB) To 3896.00 ft (KB) (TVD)** Reference Elevations: 2018.00 ft (KB)
 Total Depth: 3896.00 ft (KB) (TVD) 2007.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 72.60 psia @ 3892.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.22 End Date: 2011.01.23 Last Calib.: 2011.01.23
 Start Time: 23:25:00 End Time: 07:12:06 Time On Btm: 2011.01.23 @ 01:35:36
 Time Off Btm: 2011.01.23 @ 04:21:06

TEST COMMENT: 15/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 5 INCHES INTO WATER IN 15 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 20 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1947.00	108.52	Initial Hydro-static
1	34.99	108.41	Open To Flow (1)
15	40.02	109.49	Shut-In(1)
60	1291.86	111.33	End Shut-In(1)
61	42.87	111.09	Open To Flow (2)
105	72.60	112.62	Shut-In(2)
165	1273.67	114.39	End Shut-In(2)
166	1946.79	114.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	GAS IN PIPE	3.53
130.00	CLEAN GASSEY OIL 10%GAS 90%OIL	1.82
0.00		0.00

Gas Rates

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



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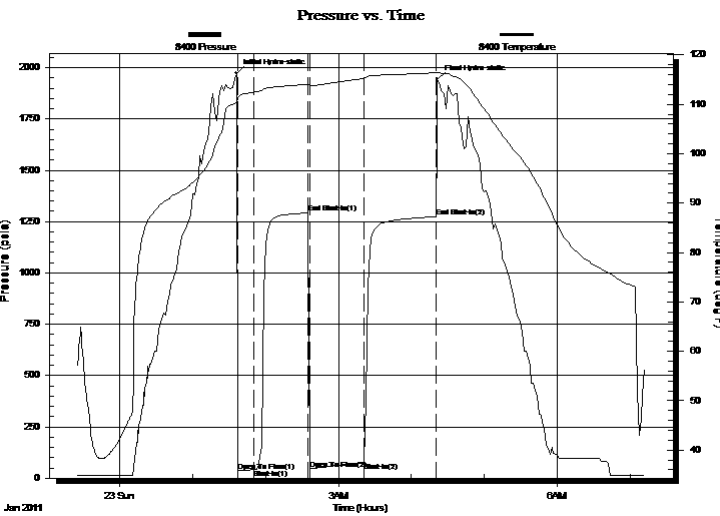
Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16021 **DST#: 4**
 Test Start: 2011.01.22 @ 23:25:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:36:06
 Time Test Ended: 07:12:06
 Interval: **3888.00 ft (KB) To 3896.00 ft (KB) (TVD)**
 Total Depth: 3896.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 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 #: 8400 Outside
 Press@RunDepth: 1273.83 psia @ 3893.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.22 End Date: 2011.01.23 Last Calib.: 2011.01.23
 Start Time: 23:25:00 End Time: 07:13:00 Time On Btm: 2011.01.23 @ 01:36:00
 Time Off Btm: 2011.01.23 @ 04:21:30

TEST COMMENT: 15/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 5 INCHES INTO WATER IN 15 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 20 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1973.24	110.50	Initial Hydro-static
1	35.57	111.27	Open To Flow (1)
14	40.60	112.47	Shut-In(1)
59	1291.93	114.10	End Shut-In(1)
61	44.55	113.80	Open To Flow (2)
105	75.24	115.27	Shut-In(2)
164	1273.83	116.39	End Shut-In(2)
166	1942.32	116.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	GAS IN PIPE	3.53
130.00	CLEAN GASSEY OIL 10%GAS 90%Oil	1.82
0.00		0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva
 2717 Canal Blvd. Suite C
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 ATTN: Charlie Sturdavant

Eakin Unit # 1-7
7/22S/16W Pawnee
 Job Ticket: 16021 **DST#: 4**
 Test Start: 2011.01.22 @ 23:25:00

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:	90000.00 lb
			<u>Total Volume: 52.18 bbl</u>	Tool Chased	5.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	3888.00 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:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3860.00	
Shut-In Tool	5.00			3865.00	
Hydraulic Tool	5.00			3870.00	
Jars	6.00			3876.00	
Safety Joint	2.00			3878.00	
Packer	5.00			3883.00	29.00 Bottom Of Top Packer
Packer	5.00			3888.00	
Perforations	3.00			3891.00	
Recorder	1.00	8405	Inside	3892.00	
Recorder	1.00	8400	Outside	3893.00	
Bullnose	3.00			3896.00	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:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7700.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	GAS IN PIPE	3.532
130.00	CLEAN GASSEY OIL 10%GAS 90%OIL	1.824
0.00		0.000

Total Length: 550.00 ft Total Volume: 5.356 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: TOOL CHASED 5 FEET TO BOTTOM

Serial #: 8405

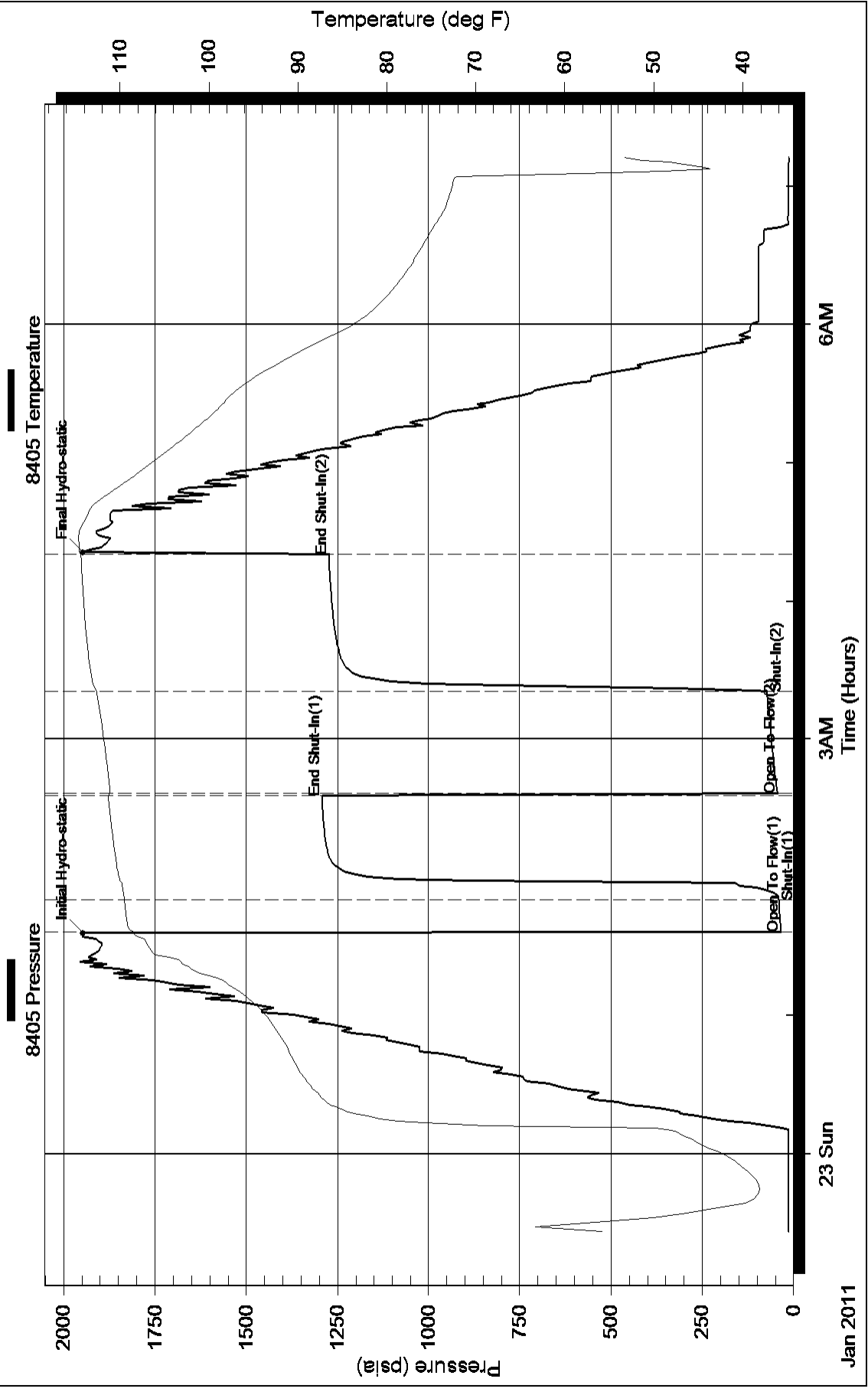
Inside

Captiva

7/22S/16W Paw nee

DST Test Number: 4

Pressure vs. Time



Serial #: 8400

Outside Captiva

7/22S/16W Pawnee

DST Test Number: 4

Pressure vs. Time

