

DRILL STEM TEST REPORT

Prepared For: **Captiva 11**

2717 Canal Blvd Hays
Ks 67601

ATTN: Charlie Sturdarant

7-22s-16w Pawnee

Charlie Sturdarant

Start Date: 2011.07.01 @ 09:25:00

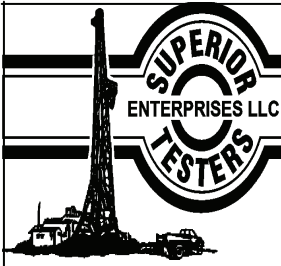
End Date: 2011.07.01 @ 18:18:00

Job Ticket #: 16502 DST #: 1

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

Printed: 2011.07.02 @ 07:03:31

Captiva 11
Charlie Sturdarant
7-22s-16w Pawnee
DST # 1
Arbuckle
2011.07.01



DRILL STEM TEST REPORT

Captiva 11
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 Ks 67601
 ATTN: Charlie Sturdarant

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7-22s-16w Pawnee
 Job Ticket: 16502 **DST#: 1**
 Test Start: 2011.07.01 @ 09:25:00

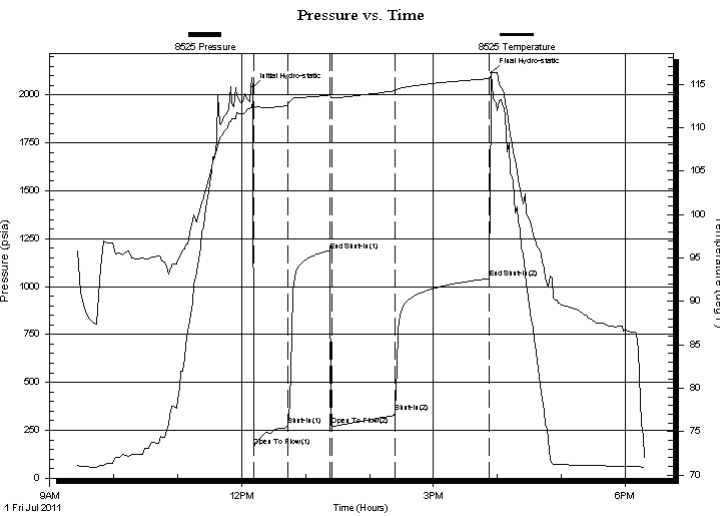
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:11:30 Tester: Dustin Ellis/Jared
 Time Test Ended: 18:18:00 Unit No: 3332 GB 65
 Interval: **3780.00 ft (KB) To 3890.00 ft (KB) (TVD)** Reference Elevations: 2021.00 ft (KB)
 Total Depth: 3890.00 ft (KB) (TVD) 2010.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8525

Press@RunDepth: 345.51 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.07.01 End Date: 2011.07.01 Last Calib.: 2011.07.02
 Start Time: 09:25:00 End Time: 18:18:00 Time On Btm: 2011.07.01 @ 12:10:30
 Time Off Btm: 2011.07.01 @ 15:54:30

TEST COMMENT: 1st open 30minutes Strong blow bottom of bucket in 14minutes
 1st shutin 45minutes no blow back
 2nd open 60minutes Strong blow bottom of bucket in 7minutes
 2nd shutin 90minutes yes blow back



PRESSURE SUMMARY

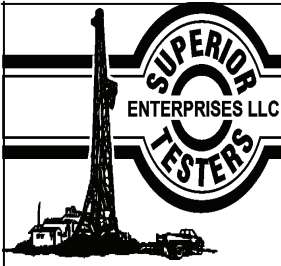
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2040.00	113.09	Initial Hydro-static
1	165.77	112.43	Open To Flow (1)
33	273.64	112.58	Shut-In(1)
73	1188.20	113.74	End Shut-In(1)
74	275.32	113.43	Open To Flow (2)
134	345.51	114.24	Shut-In(2)
222	1042.29	115.62	End Shut-In(2)
224	2115.17	116.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassy oily cut mud gas 20% oil 60% mud 0.30	0.30
180.00	Gas and oil cut mud	1.01
0.00	Gas 45% oil 35% mud 20%	0.00
420.00	Gas and oil cut mud	5.89
0.00	Gas 25% oil 25% mud 50%	0.00

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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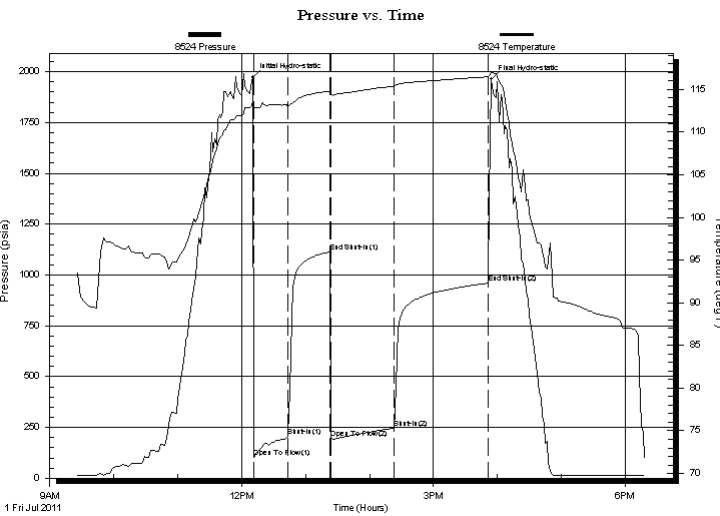
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:11:30
 Time Test Ended: 18:18:00
 Interval: **3780.00 ft (KB) To 3890.00 ft (KB) (TVD)**
 Total Depth: 3890.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis/Jared
 Unit No: 3332 GB 65
 Reference Elevations: 2021.00 ft (KB)
 2010.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8524

Press@RunDepth: 960.55 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.07.01 End Date: 2011.07.01 Last Calib.: 2011.07.02
 Start Time: 09:25:00 End Time: 18:18:30 Time On Btm: 2011.07.01 @ 12:10:30
 Time Off Btm: 2011.07.01 @ 15:54:00

TEST COMMENT: 1st open 30minutes Strong blow bottom of bucket in 14minutes
 1st shutin 45minutes no blow back
 2nd open 60minutes Strong blow bottom of bucket in 7minutes
 2nd shutin 90minutes yes blow back



PRESSURE SUMMARY

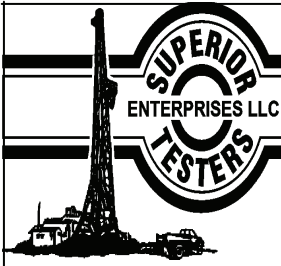
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1971.37	113.56	Initial Hydro-static
1	100.51	112.96	Open To Flow (1)
33	203.81	112.98	Shut-In(1)
72	1114.05	114.80	End Shut-In(1)
74	197.19	114.50	Open To Flow (2)
133	246.63	115.39	Shut-In(2)
221	960.55	116.48	End Shut-In(2)
224	1962.96	117.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassy oily cut mud gas 20% oil 60% mud 20%	0.30
180.00	Gas and oil cut mud	1.01
0.00	Gas 45% oil 35% mud 20%	0.00
420.00	Gas and oil cut mud	5.89
0.00	Gas 25% oil 25% mud 50%	0.00

Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Captiva 11
 2717 Canal Blvd Hays
 Ks 67601
 ATTN: Charlie Sturdarant

Charlie Sturdarant
7-22s-16w Pawnee
 Job Ticket: 16502 **DST#: 1**
 Test Start: 2011.07.01 @ 09:25:00

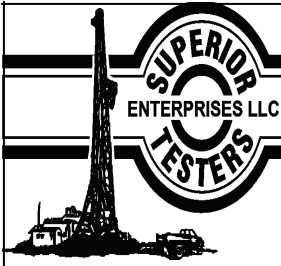
Tool Information

Drill Pipe:	Length: 3534.00 ft	Diameter: 3.80 inches	Volume: 49.57 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: 226.69 ft	Diameter: 2.25 inches	Volume: 1.11 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 50.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.69 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3780.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.50 ft			
Tool Length:	34.50 ft			
Number of Packers:	2	Diameter: 6.25 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3757.00	
Hydraulic Tool	5.00			3762.00	
Jars	6.00			3768.00	
Safety Joint	2.00			3770.00	
Packer	5.00			3775.00	28.00 Bottom Of Top Packer
Packer	5.00			3780.00	
Anchor	0.00			3780.00	
Change Over Sub	0.75			3780.75	
Drill Pipe	0.00		Outside	3780.75	
Change Over Sub	0.75		Outside	3781.50	
Anchor	0.00			3781.50	
Recorder	1.00	8524	Inside	3782.50	
Recorder	1.00	8525	Outside	3783.50	
Bullnose	3.00			3786.50	6.50 Bottom Packers & Anchor

Total Tool Length: 34.50



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FLUID SUMMARY

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 Test Start: 2011.07.01 @ 09:25:00

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: 7.99 in ³	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
60.00	Gassy oily cut mud gas 20% oil 60% mud	0.295
180.00	Gas and oil cut mud	1.006
0.00	Gas 45% oil 35% mud 20%	0.000
420.00	Gas and oil cut mud	5.891
0.00	Gas 25% oil 25% mud 50%	0.000

Total Length: 660.00 ft Total Volume: 7.192 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

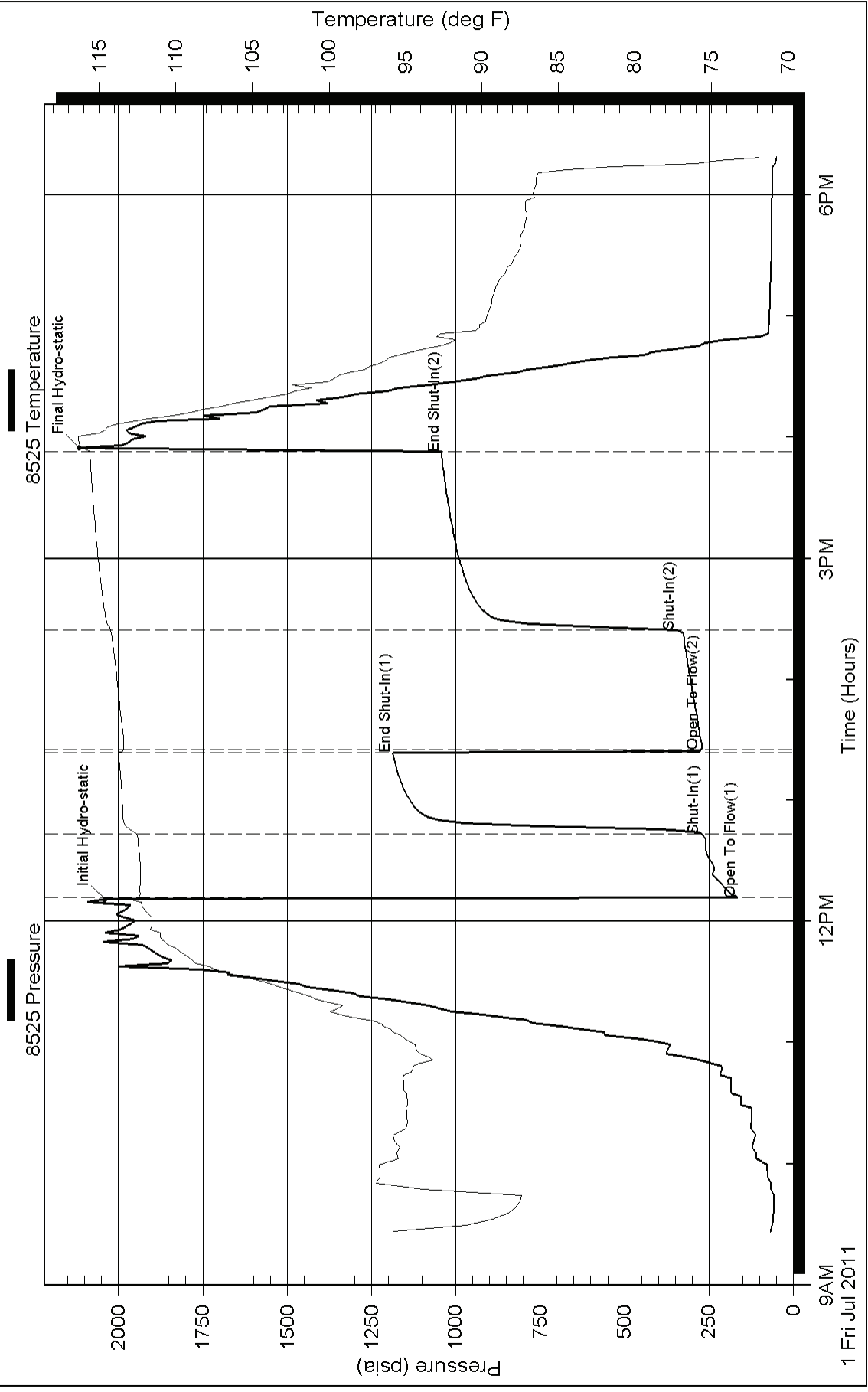
Serial #: 8525

Captiva 11

7-22s-16w Pawnee

DST Test Number: 1

Pressure vs. Time



Serial #: 8524

Captiva 11

7-22s-16w Pawnee

DST Test Number: 1

