



DRILL STEM TEST REPORT

FLUID SUMMARY

CAPTIVA II

445 ONION BLVD SUITE 208 LAKEWOOD CO
80228

#1-2 WFYOG

Job Ticket: 17732

DST#: 3

ATTN: CHARLIE STURDAVANT

Test Start: 2012.08.28 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 78.00 sec/qt
Water Loss: 9.99 in³
Resistivity: ohm.m
Salinity: 8400.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	Drilling Mud 100% Mud	3.410
180.00	Water Mud 70%Mud 30%Water	2.525
180.00	Muddy Water 10%Mud 90%Water	2.525
840.00	Water 100% Chlorides 28,000	11.783
0.00	Resisitvity .28 @ 72 Degrees	0.000

Total Length: 1560.00 ft Total Volume: 20.243 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Slid tool from 3678 to T.D. Opened tool 4-5 Times picked up drilling mud each time



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TOOL DIAGRAM

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Tool Information

Drill Pipe:	Length: 3762.00 ft	Diameter: 3.80 inches	Volume: 52.77 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: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 53.66 bbl</u>	Tool Chased 280.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3958.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	36.00 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			3935.00	
Hydraulic Tool	5.00			3940.00	
Jars	6.00			3946.00	
Safety Joint	2.00			3948.00	
Packer	5.00			3953.00	28.00 Bottom Of Top Packer
Packer	5.00			3958.00	
Perforations	3.00			3961.00	
Recorder	1.00	6806	Inside	3962.00	
Recorder	1.00	8524	Outside	3963.00	
Bullnose	3.00			3966.00	8.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



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Job Ticket: 17732

DST#: 3

ATTN: CHARLIE STURDAVANT

Test Start: 2012.08.28 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3345

Interval: 3958.00 ft (KB) To 3966.00 ft (KB) (TVD)

Reference Elevations: 1997.00 ft (KB)

Total Depth: 3966.00 ft (KB) (TVD)

1986.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 11.00 ft

Serial #: 8524 Outside

Press @ Run Depth: 1346.84 psia @ 3963.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.28

End Date: 2012.08.28

Last Calib.: 2012.08.28

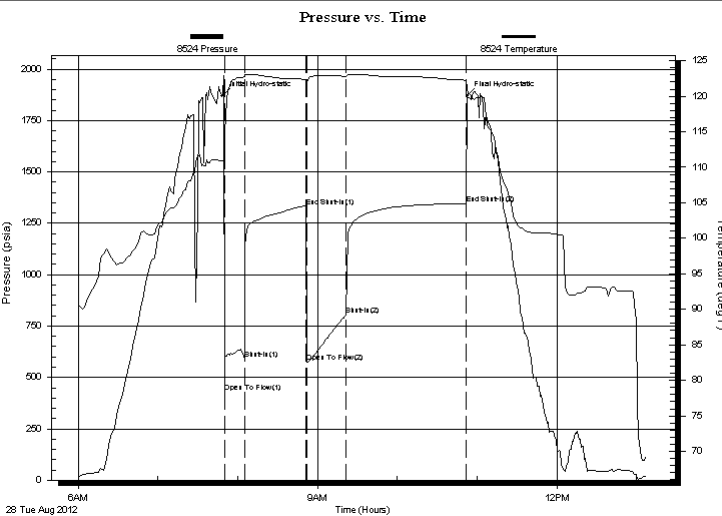
Start Time: 06:00:00

End Time: 13:07:30

Time On Btm: 2012.08.28 @ 07:48:30

Time Off Btm: 2012.08.28 @ 10:52:30

TEST COMMENT: 1st Opening 15 Minutes Fair blow built to the bottom of A 5 gallon bucket in 5 minutes
1st Shut-In 45 Minutes-No blow back
2nd Opening 30 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 4 minutes
2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1869.74	110.84	Initial Hydro-static
2	429.15	110.40	Open To Flow (1)
17	591.10	122.73	Shut-In(1)
63	1332.62	122.33	End Shut-In(1)
64	572.33	121.99	Open To Flow (2)
93	805.40	122.82	Shut-In(2)
183	1346.84	122.26	End Shut-In(2)
184	1869.71	121.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	Drilling Mud 100% Mud	3.41
180.00	Water Mud 70%Mud 30%Water	2.52
180.00	Muddy Water 10%Mud 90%Water	2.52
840.00	Water 100% Chlorides 28,000	11.78
0.00	Resistivity .28 @ 72 Degrees	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: 00:00:00

Time Test Ended: 00:00:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 3345

Interval: **3958.00 ft (KB) To 3966.00 ft (KB) (TVD)**

Reference Elevations: 1997.00 ft (KB)

Total Depth: 3966.00 ft (KB) (TVD)

1986.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 11.00 ft

Serial #: 6806 Inside

Press @ Run Depth: 1332.39 psia @ 3962.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.08.28

End Date: 2012.08.28

Last Calib.: 2012.08.28

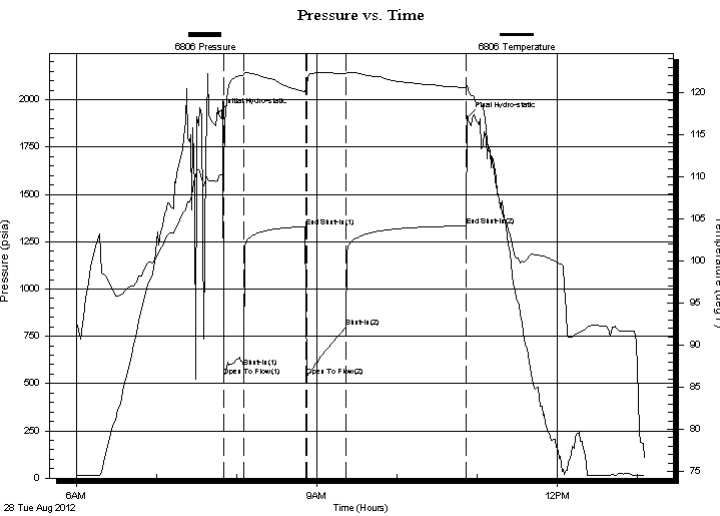
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2nd Shut-In 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1930.36	110.08	Initial Hydro-static
4	537.35	110.46	Open To Flow (1)
19	585.55	122.08	Shut-In(1)
65	1330.22	120.09	End Shut-In(1)
66	541.07	120.94	Open To Flow (2)
96	796.83	122.23	Shut-In(2)
186	1332.39	120.55	End Shut-In(2)
187	1909.47	120.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	Drilling Mud 100% Mud	3.41
180.00	Water Mud 70%Mud 30%Water	2.52
180.00	Muddy Water 10%Mud 90%Water	2.52
840.00	Water 100% Chlorides 28,000	11.78
0.00	Resistivity .28 @ 72 Degrees	0.00

Gas Rates

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



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Prepared For: **CAPTIVA II**

445 ONION BLVD SUITE 208 LAKEWOOD
CO 80228

ATTN: CHARLIE STURDAVANT

#1-2 WFYOG

Start Date: 2012.08.28 @ 00:00:00

End Date: 2012.08.28 @ 00:00:00

Job Ticket #: 17732 DST #: 3

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

Printed: 2012.08.28 @ 23:12:45

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#1-2 WFYOG

DST # 3

Arbuckle

2012.08.28