



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hutchinson Oil Co
 PO Box 521
 Derby, KS 67037
 ATTN: Jeff Burk

20-22S-11W Stafford
Hunley 1-20
 Job Ticket: 49676 **DST#: 3**
 Test Start: 2012.09.19 @ 22:59:05

GENERAL INFORMATION:

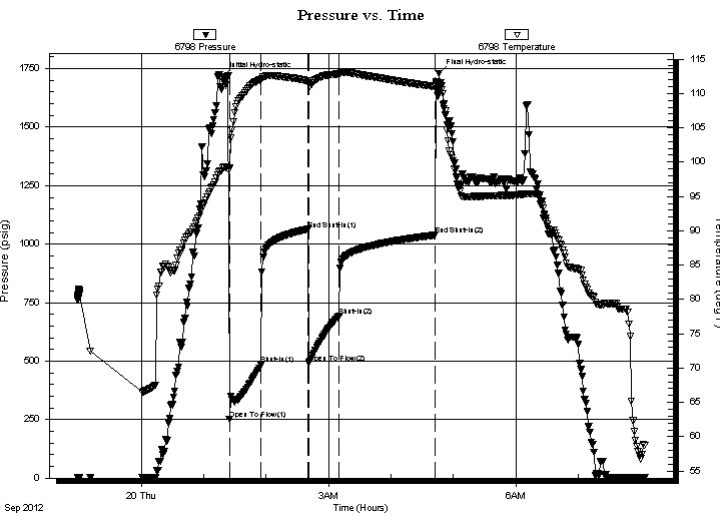
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:24:50
 Time Test Ended: 08:04:05
 Interval: **3550.00 ft (KB) To 3592.00 ft (KB) (TVD)**
 Total Depth: 3592.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1833.00 ft (KB)
 1824.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 694.26 psig @ 3551.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.19 End Date: 2012.09.20 Last Calib.: 2012.09.20
 Start Time: 22:59:06 End Time: 08:04:05 Time On Btm: 2012.09.20 @ 01:18:35
 Time Off Btm: 2012.09.20 @ 04:46:05

TEST COMMENT: IF: Strong Blow , BOB in 1 minute, GTS in 10 minutes, Caught Sample, TSTM
 IS: BOB Blow Back in 2 minutes
 FF: Strong Blow , BOB & GTS Immediate, TSTM
 FS: BOB Blow Back in 4 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.35	99.18	Initial Hydro-static
7	251.12	99.08	Open To Flow (1)
37	485.31	112.01	Shut-In(1)
82	1062.68	111.78	End Shut-In(1)
83	491.92	111.49	Open To Flow (2)
112	694.26	112.83	Shut-In(2)
204	1038.36	111.01	End Shut-In(2)
208	1730.20	110.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1040 GIP	0.00
2615.00	Gassy Oil 10%G 90%O	34.78

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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20-22S-11W Stafford

PO Box 521
Derby, KS 67037

Hunley 1-20

Job Ticket: 49676

DST#: 3

ATTN: Jeff Burk

Test Start: 2012.09.19 @ 22:59:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

45.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1040 GIP	0.000
2615.00	Gassy Oil 10%G 90%O	34.778

Total Length: 2615.00 ft Total Volume: 34.778 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity w as 45.4 @ 60 degrees

Pressure vs. Time

