



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hutchinson Oil Co.
PO Box 521
Derby Kansas 67037
ATTN: Jeff Burk

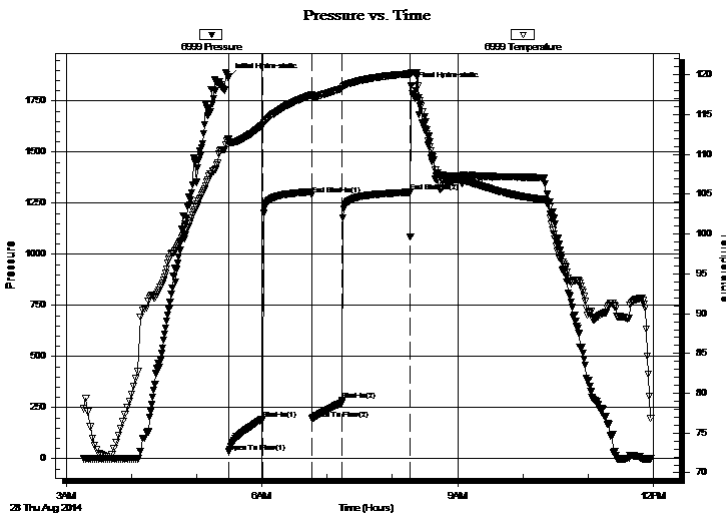
6-23s-12w-52
T&L #2
Job Ticket: 60311 **DST#: 2**
Test Start: 2014.08.28 @ 03:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:29:30
Time Test Ended: 11:58:00
Interval: 3754.00 ft (KB) To 3766.00 ft (KB) (TVD)
Total Depth: 3766.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: S2-Great Bend-52
Reference Elevations: 1856.00 ft (KB)
1850.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6999 Outside
Press@RunDepth: 287.12 psig @ 3754.00 ft (KB) Capacity: 5000.00 psig
Start Date: 2014.08.28 End Date: 2014.08.28 Last Calib.: 2014.08.28
Start Time: 03:16:00 End Time: 11:58:00 Time On Btm: 2014.08.28 @ 05:29:00
Time Off Btm: 2014.08.28 @ 08:17:00

TEST COMMENT: 1st Open 30 minutes Strong building blow built to bottom of a 5 gallon bucket of water in 8 minutes.
1st Shut in 45 minutes. Weak surface blow back.
2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 12 minutes.
2nd Shut in 60 minutes Yes blow back 5 inches.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.53	111.89	Initial Hydro-static
1	33.12	111.52	Open To Flow (1)
32	194.40	113.67	Shut-In(1)
77	1290.66	117.43	End Shut-In(1)
77	195.72	117.22	Open To Flow (2)
105	287.12	118.30	Shut-In(2)
168	1303.36	120.11	End Shut-In(2)
168	1822.33	120.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Clean gassy oil 100%	0.44
60.00	Water cut oil 12%Oil 88%Water	0.30
441.00	Oil spotted muddy w ater	5.86
0.00	1%Oil 94%Water 5%Mud	0.00
0.00	315 Gas in pipe	0.00
0.00	Chlorides 19,000.2ohms@56degrees.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hutchinson Oil Co.
PO Box 521
Derby Kansas 67037
ATTN: Jeff Burk

6-23s-12w-52
T&L #2
Job Ticket: 60311 **DST#: 2**
Test Start: 2014.08.28 @ 03:15:00

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Clean gassy oil 100%	0.443
60.00	Water cut oil 12%Oil 88%Water	0.295
441.00	Oil spotted muddy w ater	5.855
0.00	1%Oil 94%Water 5%Mud	0.000
0.00	315 Gas in pipe	0.000
0.00	Chlorides 19,000.2ohms@56degrees.	0.000
0.00	Gravity of oil 29 corrected	0.000

Total Length: 591.00 ft Total Volume: 6.593 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

