



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Charter Energy Inc
P.O. Box 252
Great Bend KS 67530-0252
ATTN: Wyatt Urban

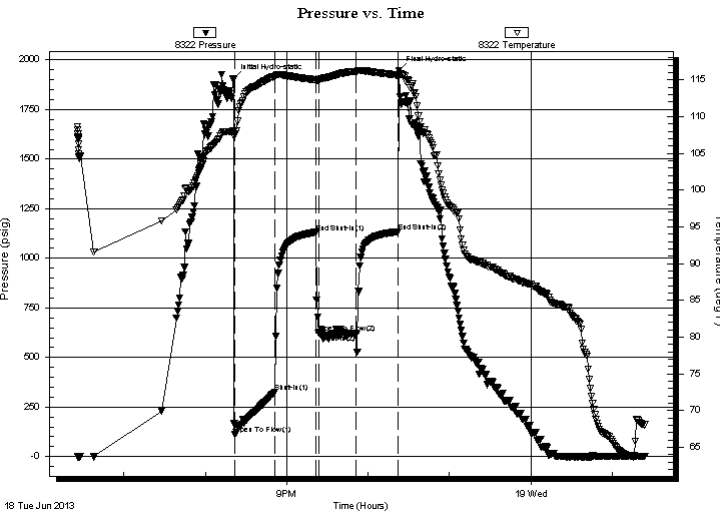
26 20s 26w Pawnee
Clutter # 2
Job Ticket: 53819 **DST#: 1**
Test Start: 2013.06.18 @ 18:26:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: 2025.00 ft (KB)
Time Tool Opened: 20:22:00
Time Test Ended: 01:24:00
Interval: **3690.00 ft (KB) To 3770.00 ft (KB) (TVD)**
Total Depth: 3770.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 41
Reference Elevations: 2025.00 ft (KB)
2018.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8322 Inside
Press @ Run Depth: 617.41 psig @ 3702.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.06.18 End Date: 2013.06.19 Last Calib.: 2013.06.19
Start Time: 18:26:01 End Time: 01:23:50 Time On Btm: 2013.06.18 @ 20:21:00
Time Off Btm: 2013.06.18 @ 22:22:50

TEST COMMENT: 30-IFP- BOB in 45 sec.
30-ISIP- Surface Blow in 1min.
30-FFP- BOB in 4 1/2 min.
30-FSIP- Surface Blow in 2 1/2 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1904.11	108.05	Initial Hydro-static
1	110.99	107.70	Open To Flow (1)
31	325.28	115.51	Shut-In(1)
61	1129.78	115.00	End Shut-In(1)
63	624.38	115.00	Open To Flow (2)
91	617.41	116.16	Shut-In(2)
122	1133.60	115.66	End Shut-In(2)
122	1947.51	115.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	GM 10%g 90%m Show of Oil	4.35
124.00	GWCM 10%g 15%w 75%m Show of Oil	1.74
186.00	GOMCW 20%g 5%o 10%m 65%w	2.61
434.00	OMCW 5%o 5%m 90%w	6.09
0.00	186 GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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Clutter # 2

Job Ticket: 53819

DST#: 1

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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:

36000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
310.00	GM 10%g 90%m Show of Oil	4.348
124.00	GWCM 10%g 15%w 75%m Show of Oil	1.739
186.00	GOMCW 20%g 5%o 10%m 65%w	2.609
434.00	OMCW 5%o 5%m 90%w	6.088
0.00	186 GIP	0.000

Total Length: 1054.00 ft Total Volume: 14.784 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .213 @ 66

Pressure vs. Time

