



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Advantage Res. Inc.
1775 Sherman St. Ste. 1700
Denver, CO. 80203-4317
ATTN: Pete

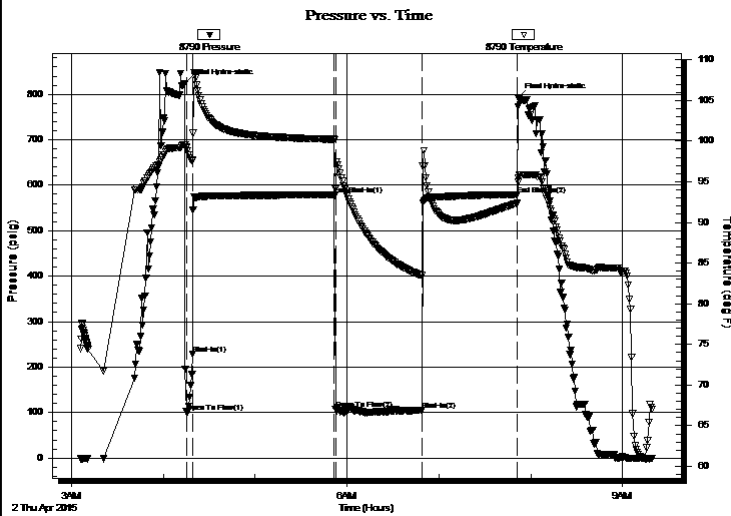
20-28s-12e Elk Co., KS
Frank Pettijohn 1
Job Ticket: 59969 **DST#: 1**
Test Start: 2015.04.02 @ 03:05:53

GENERAL INFORMATION:

Formation: **Miss./Osage**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 04:15:08
Time Test Ended: 09:19:23
Interval: **1724.00 ft (KB) To 1739.00 ft (KB) (TVD)**
Total Depth: 1739.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 68
Reference Elevations: 1083.00 ft (KB)
1074.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8790 **Inside**
Press@RunDepth: 105.27 psig @ 1725.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.04.02 End Date: 2015.04.02 Last Calib.: 2015.04.02
Start Time: 03:05:58 End Time: 09:19:22 Time On Btm: 2015.04.02 @ 04:13:38
Time Off Btm: 2015.04.02 @ 07:51:53

TEST COMMENT: IF: Strong blow . BOB immed. GTS @ 4 min.
IS: No blow .
FF: Strong blow . BOB immed. Gauged gas.
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	823.85	99.60	Initial Hydro-static
2	101.00	99.17	Open To Flow (1)
6	229.00	97.61	Shut-In(1)
98	578.56	100.21	End Shut-In(1)
99	107.26	94.13	Open To Flow (2)
155	105.27	83.46	Shut-In(2)
218	578.96	92.34	End Shut-In(2)
219	793.05	95.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drig mud 100%m	0.15
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.63	35.00	528.62
Last Gas Rate	0.63	42.00	603.52
Max. Gas Rate	0.63	42.00	603.52



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FLUID SUMMARY

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Frank Pettijohn 1

Job Ticket: 59969

DST#: 1

ATTN: Pete

Test Start: 2015.04.02 @ 03:05:53

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:

500 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 0.07 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
30.00	Drig mud 100%m	0.148
0.00	GTS	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

