



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior, Inc.
 PO BOX 399
 Garden City KS 67846
 ATTN: Jason T. Alm

23-19S-22W Ness KS

Gillig-Rein #1

Job Ticket: 63225

DST#: 1

Test Start: 2017.06.20 @ 14:02:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:04:15
 Time Test Ended: 19:12:00
 Interval: **4294.00 ft (KB) To 4315.00 ft (KB) (TVD)**
 Total Depth: 4315.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2261.00 ft (KB)
 2253.00 ft (CF)
 KB to GR/CF: 8.00 ft

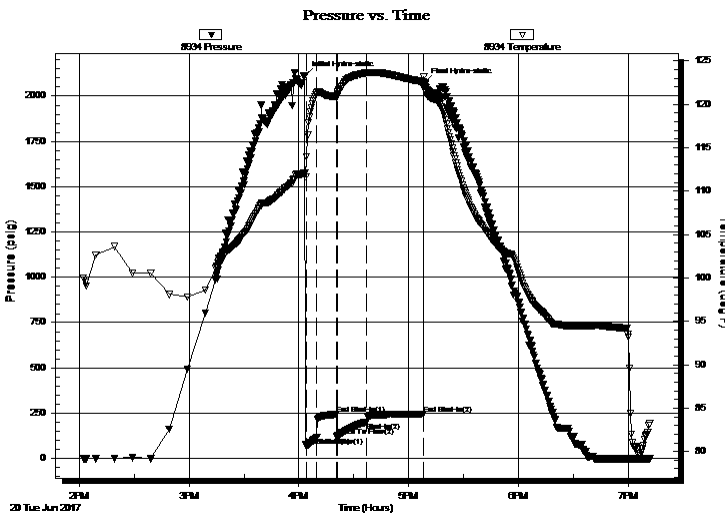
Serial #: 8934

Outside

Press@RunDepth: 201.22 psig @ 4296.00 ft (KB)
 Start Date: 2017.06.20 End Date: 2017.06.20
 Start Time: 14:02:15 End Time: 19:12:00
 Capacity: 8000.00 psig
 Last Calib.: 2017.06.20
 Time On Btm: 2017.06.20 @ 16:03:15
 Time Off Btm: 2017.06.20 @ 17:08:45

TEST COMMENT: 5-IF-Strong Blow ; BOB in 2 mins
 10-ISI-Very Weak Surface Blow ; Built to 1/8"
 15-FF-Strong Blow ; BOB in 3 mins
 30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.47	112.13	Initial Hydro-static
1	70.34	113.98	Open To Flow (1)
7	117.51	121.33	Shut-In(1)
18	242.54	120.84	End Shut-In(1)
18	122.90	121.18	Open To Flow (2)
34	201.22	123.65	Shut-In(2)
65	245.39	122.57	End Shut-In(2)
66	2076.16	122.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MCW 5%M 95%W	2.30
190.00	WCM 30%W 70%M	2.67
15.00	OMCW 5%O 45%M 50%W	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

23-19S-22W Ness KS

PO BOX 399
Garden City KS 67846

Gillig-Rein #1

Job Ticket: 63225

DST#: 1

ATTN: Jason T. Alm

Test Start: 2017.06.20 @ 14:02:00

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:

17500 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
185.00	MCW 5%M 95%W	2.304
190.00	WCM 30%W 70%M	2.665
15.00	OMCW 5%O 45%M 50%W	0.210

Total Length: 390.00 ft Total Volume: 5.179 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM

RW=.310@85degrees

Pressure vs. Time

