



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

American Warrior Inc
 PO Box 399
 Garden City, Kansas
 67846
 ATTN: Scott Corsair

33/17S/21W/Ness

Denise #3-33

Job Ticket: 64801

DST#: 1

Test Start: 2017.02.11 @ 23:44:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:41:30

Time Test Ended: 06:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Hays/94

Interval: 4080.00 ft (KB) To 4135.00 ft (KB) (TVD)

Reference Elevations: 2152.00 ft (KB)

Total Depth: 4135.00 ft (KB) (TVD)

2144.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648 Inside

Press@RunDepth: 59.90 psig @ 4130.74 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.11

End Date: 2017.02.12

Last Calib.: 2017.02.12

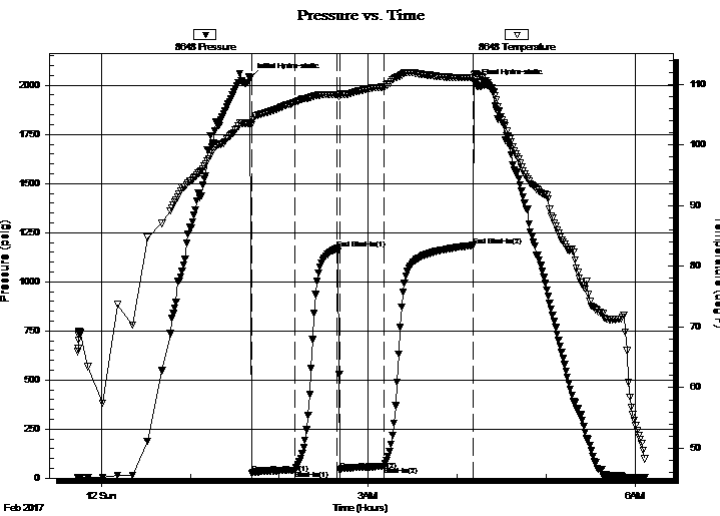
Start Time: 23:44:05

End Time: 06:06:59

Time On Btm: 2017.02.12 @ 01:40:30

Time Off Btm: 2017.02.12 @ 04:12:00

TEST COMMENT: I.F. 30 Minutes/Blow built to BOB in 17 minutes
 I.S.I. 30 Minutes/No blow back
 F.F. 30 Minutes/Blow built to BOB in 6 1/2 minutes
 F.S.I. 60 Mintues/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2037.12	103.62	Initial Hydro-static
1	24.80	103.35	Open To Flow (1)
30	39.95	107.03	Shut-In(1)
59	1168.66	108.36	End Shut-In(1)
61	40.48	108.35	Open To Flow (2)
90	59.90	109.59	Shut-In(2)
150	1184.70	111.12	End Shut-In(2)
152	2008.78	111.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud cut Gassy Oil	0.43
0.00	Mud 20% Gas 30% Oil 50%	0.00
0.00	577 feet of gas in pipe	0.00

Gas Rates

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



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Reference Elevations: 2152.00 ft (KB)

Total Depth: 4135.00 ft (KB) (TVD)

2144.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8960 Outside

Press@RunDepth: 1181.65 psig @ 4131.74 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.11

End Date: 2017.02.12

Last Calib.: 2017.02.12

Start Time: 23:44:05

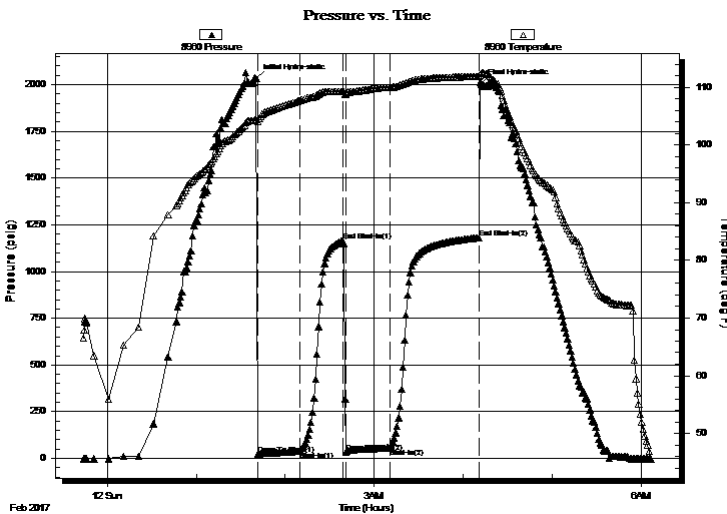
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F.S.I. 60 Mintues/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2033.45	104.34	Initial Hydro-static
1	21.33	104.16	Open To Flow (1)
30	38.14	107.73	Shut-In(1)
59	1165.73	109.27	End Shut-In(1)
61	34.39	108.99	Open To Flow (2)
90	56.65	109.96	Shut-In(2)
150	1181.65	111.93	End Shut-In(2)
152	2005.24	112.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	Mud cut Gassy Oil	0.43
0.00	Mud 20% Gas 30% Oil 50%	0.00
0.00	577 feet of gas in pipe	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc
PO Box 399
Garden City, Kansas
67846
ATTN: Scott Corsair

33/17S/21W/Ness
Denise #3-33
Job Ticket: 64801 **DST#: 1**
Test Start: 2017.02.11 @ 23:44:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	Mud cut Gassy Oil	0.428
0.00	Mud 20% Gas 30% Oil 50%	0.000
0.00	577 feet of gas in pipe	0.000

Total Length: 50.00 ft Total Volume: 0.428 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

