



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Operations LLC
 125 N Market Suite 1425
 Wichita KS 67202
 ATTN: Seth Evenson

28-20S-13W Barton, KS

Gaunt #28C-1

Job Ticket: 66293

DST#: 3

Test Start: 2019.09.12 @ 06:47:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:27:02
 Time Test Ended: 12:39:02
 Interval: **3580.00 ft (KB) To 3590.00 ft (KB) (TVD)**
 Total Depth: 3590.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Great Bend/14
 Reference Elevations: 1897.00 ft (KB)
 1892.00 ft (CF)
 KB to GR/CF: 5.00 ft

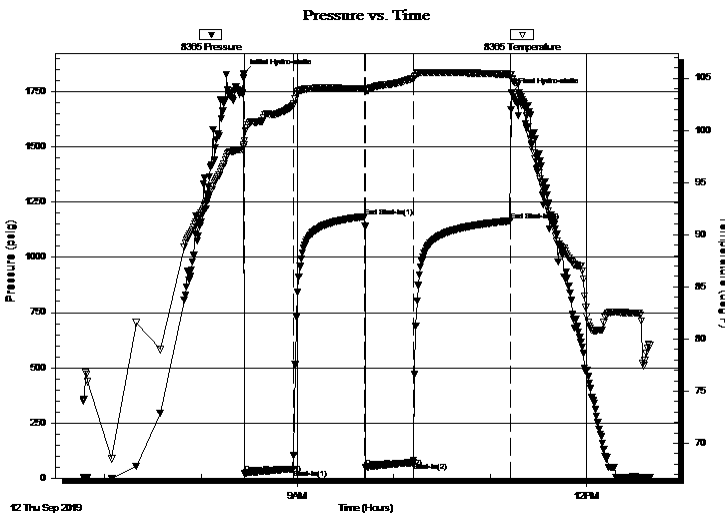
Serial #: 8365

Inside

Press@RunDepth: 69.59 psig @ 3581.00 ft (KB) Capacity: psig
 Start Date: 2019.09.12 End Date: 2019.09.12 Last Calib.: 2019.09.12
 Start Time: 06:47:01 End Time: 12:39:02 Time On Btm: 2019.09.12 @ 08:26:32
 Time Off Btm: 2019.09.12 @ 11:13:17

TEST COMMENT: IF 30 Minutes/ Blow to 2 1/2 inches
 ISI 45 Minutes/ No blow back
 FF 30 Minutes/ Blow to 1 inch
 FSI 60 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1833.50	98.59	Initial Hydro-static
1	22.32	99.02	Open To Flow (1)
31	41.53	102.41	Shut-In(1)
76	1184.52	103.99	End Shut-In(1)
76	50.21	103.77	Open To Flow (2)
106	69.59	104.96	Shut-In(2)
166	1165.77	105.35	End Shut-In(2)
167	1747.21	104.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOCMW/ O 1% M 49% W 50%	0.30
65.00	VSOCMW/ O 1% M 20% W 79%	0.37

Gas Rates

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



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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:27:02

Time Test Ended: 12:39:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/14

Interval: 3580.00 ft (KB) To 3590.00 ft (KB) (TVD)

Reference Elevations: 1897.00 ft (KB)

Total Depth: 3590.00 ft (KB) (TVD)

1892.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6755 Outside

Press@RunDepth: 1164.42 psig @ 3582.00 ft (KB)

Capacity: psig

Start Date: 2019.09.12

End Date:

2019.09.12

Last Calib.:

2019.09.12

Start Time: 06:47:01

End Time:

12:39:02

Time On Btm:

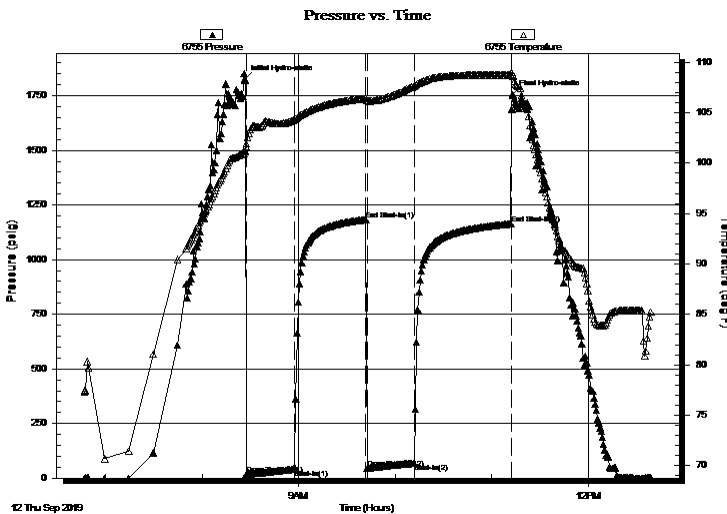
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TEST COMMENT: IF 30 Minutes/ Blow to 2 1/2 inches
 ISI 45 Minutes/ No blow back
 FF 30 Minutes/ Blow to 1 inch
 FSI 60 Minutes/ No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1823.63	101.10	Initial Hydro-static
1	16.92	101.59	Open To Flow (1)
31	41.54	104.30	Shut-In(1)
76	1183.42	106.38	End Shut-In(1)
76	45.46	106.17	Open To Flow (2)
106	67.58	107.61	Shut-In(2)
166	1164.42	108.72	End Shut-In(2)
167	1755.32	108.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	VSOCMW/ O 1% M 49% W 50%	0.30
65.00	VSOCMW/ O 1% M 20% W 79%	0.37

Gas Rates

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



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FLUID SUMMARY

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Gaunt #28C-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:

23000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	VSOCMM/ O 1% M49% W 50%	0.295
65.00	VSOCMM/ O 1% M20% W 79%	0.365

Total Length: 125.00 ft Total Volume: 0.660 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .243 ohms @ 82 deg.

Pressure vs. Time

