



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Darrah Oil Operations LLC

**28/20S/13W/Barton**

125 N Market  
Suite 1425  
Wichita Kansas 67202  
ATTN: Seth Everson

**Gaunt 28C-1**

Job Ticket: 66294

**DST#: 4**

Test Start: 2019.09.13 @ 03:51:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:33:47

Time Test Ended: 10:07:02

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 14

**Interval: 3306.00 ft (KB) To 3357.00 ft (KB) (TVD)**

Reference Elevations: 1897.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

1892.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 152.69 psig @ 3342.24 ft (KB)

Capacity: psig

Start Date: 2019.09.13

End Date: 2019.09.13

Last Calib.: 2019.09.13

Start Time: 03:51:01

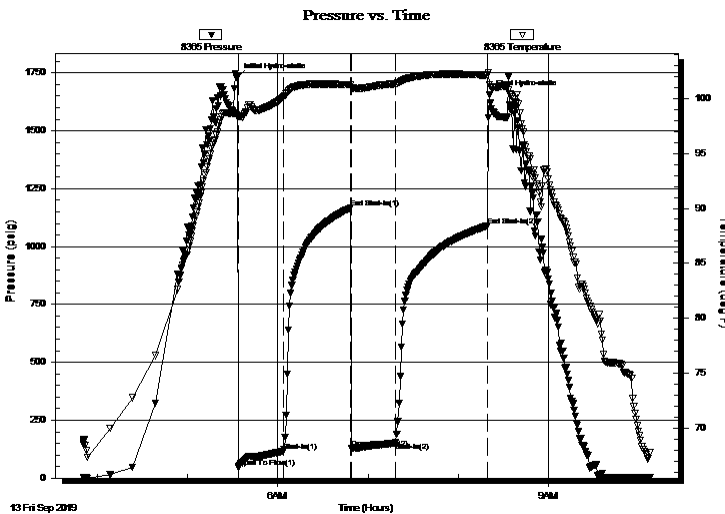
End Time: 10:07:02

Time On Btm: 2019.09.13 @ 05:33:17

Time Off Btm: 2019.09.13 @ 08:20:32

**TEST COMMENT:** IF 30 Minutes/ Blow built to BOB in 17 1/2 minutes/ Total build 19 inches  
 ISI 45 Minutes/ No blow back  
 FF 30 Minutes/ Blow built to 11 inches  
 FSI 60 Minutes/ Light surface blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1731.52	98.43	Initial Hydro-static
1	46.35	98.38	Open To Flow (1)
31	115.94	100.13	Shut-In(1)
75	1166.23	101.22	End Shut-In(1)
76	129.48	101.02	Open To Flow (2)
105	152.69	101.35	Shut-In(2)
166	1089.51	102.11	End Shut-In(2)
168	1654.45	101.26	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOCMW/ O 5% W 45% M 50%	0.65
144.00	GSOCMW/ G 5% O 10% M 30% W 55%	2.02
0.00	102 feet GIP	0.00

## Gas Rates

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



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Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:33:47

Time Test Ended: 10:07:02

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 14

**Interval: 3306.00 ft (KB) To 3357.00 ft (KB) (TVD)**

Reference Elevations: 1897.00 ft (KB)

Total Depth: 3660.00 ft (KB) (TVD)

1892.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6752 Outside**

Press@RunDepth: 1090.91 psig @ 3342.24 ft (KB)

Capacity: psig

Start Date: 2019.09.13

End Date: 2019.09.13

Last Calib.: 2019.09.13

Start Time: 03:51:01

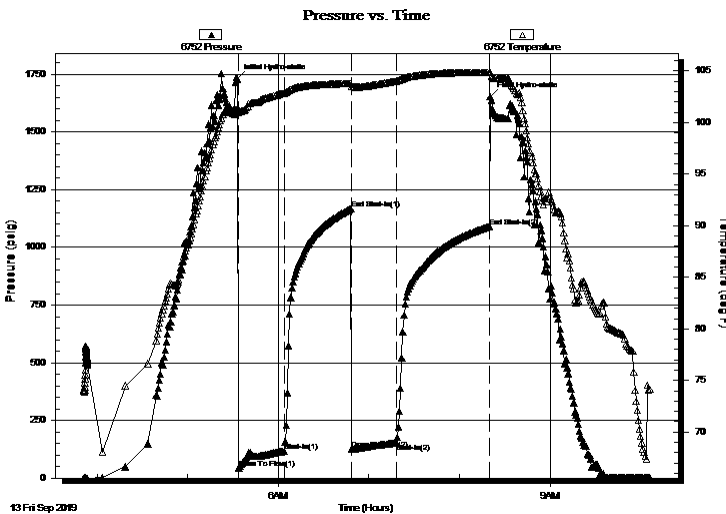
End Time: 10:06:02

Time On Btm: 2019.09.13 @ 05:33:02

Time Off Btm: 2019.09.13 @ 08:20:17

**TEST COMMENT:** IF 30 Minutes/ Blow built to BOB in 17 1/2 minutes/ Total build 19 inches  
 ISI 45 Minutes/ No blow back  
 FF 30 Minutes/ Blow built to 11 inches  
 FSI 60 Minutes/ Light surface blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.68	101.24	Initial Hydro-static
1	41.57	100.97	Open To Flow (1)
31	115.99	102.86	Shut-In(1)
76	1167.51	103.74	End Shut-In(1)
76	126.22	103.54	Open To Flow (2)
106	152.63	104.03	Shut-In(2)
167	1090.91	104.83	End Shut-In(2)
168	1653.06	104.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOCMW/ O 5% W 45% M 50%	0.65
144.00	GSOCMW/ G 5% O 10% M 30% W 55%	2.02
0.00	102 feet GIP	0.00

## Gas Rates

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





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**FLUID SUMMARY**

Darrah Oil Operations LLC

**28/20S/13W/Barton**

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**Gaunt 28C-1**

Job Ticket: 66294

**DST#: 4**

Test Start: 2019.09.13 @ 03:51:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: in<sup>3</sup>

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 65000 ppm

deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	SOCWM/ O 5% W 45% M 50%	0.646
144.00	GSOCMM/ G 5% O10% M 30% W 55%	2.020
0.00	102 feet GIP	0.000

Total Length: 268.00 ft      Total Volume: 2.666 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .107 ohms @ 76 deg.

