



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Operations LLC

32/20S/13W/Barton

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

Gaunt 32A-1

Job Ticket: 66291

DST#: 1

Test Start: 2019.09.10 @ 14:22:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:35:32

Time Test Ended: 22:32:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 14

Interval: 3396.00 ft (KB) To 3450.00 ft (KB) (TVD)

Reference Elevations: 1897.00 ft (KB)

Total Depth: 3450.00 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: 94.84 psig @ 3397.00 ft (KB)

Capacity: psig

Start Date: 2019.09.10

End Date: 2019.09.10

Last Calib.: 2019.09.10

Start Time: 14:22:01

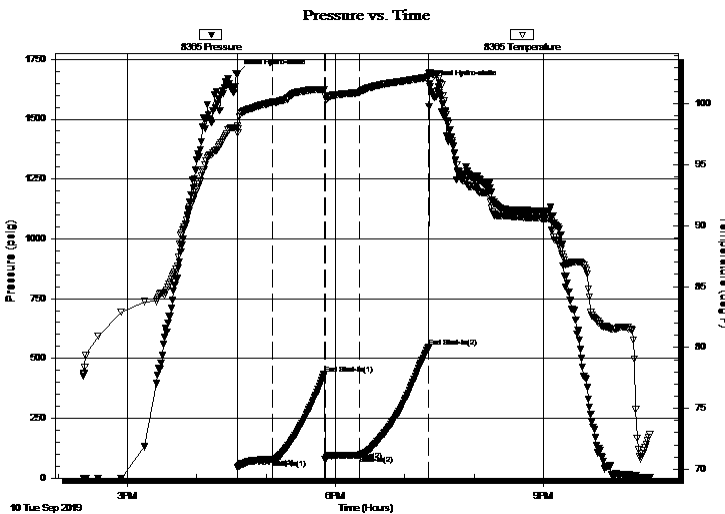
End Time: 22:32:02

Time On Btm: 2019.09.10 @ 16:35:17

Time Off Btm: 2019.09.10 @ 19:21:32

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 7 minutes/ Total build 40 inches
 ISI 45 Mintues/ 1/4 inch blow back
 FF 30 Mintues/ Blow to BOB in 20 seconds/ Total build 63 inches
 FSI 60 Minutes/ 1 3/4 inch blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.93	98.18	Initial Hydro-static
1	45.80	97.63	Open To Flow (1)
31	77.98	100.15	Shut-In(1)
75	435.09	101.17	End Shut-In(1)
76	76.22	100.65	Open To Flow (2)
106	94.84	100.92	Shut-In(2)
166	545.89	102.23	End Shut-In(2)
167	1646.34	102.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMO / G 10% M 30% O 60%	0.30
62.00	GMO / G 50% M 20% O 30%	0.34
67.00	GOM / G 10% O 10% M 80%	0.94
0.00	869 feet GIP	0.00

Gas Rates

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



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Reference Elevations: 1897.00 ft (KB)

Total Depth: 3450.00 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: 563.16 psig @ 3398.00 ft (KB)

Capacity: psig

Start Date: 2019.09.10

End Date: 2019.09.10

Last Calib.: 2019.09.10

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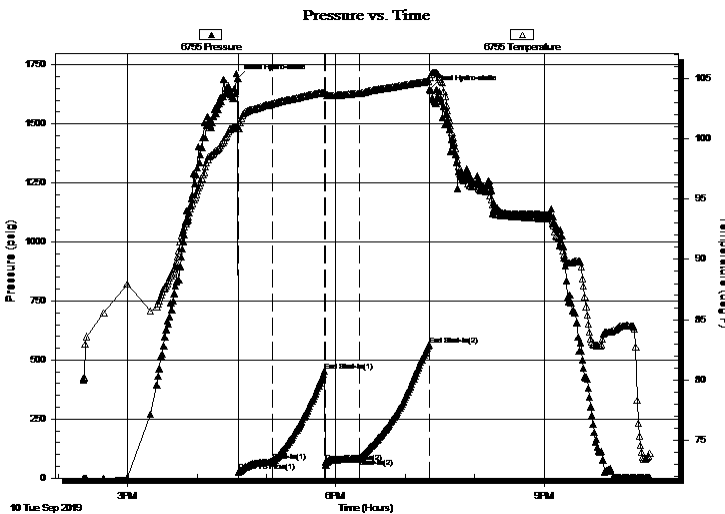
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 FSI 60 Minutes/ 1 3/4 inch blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.86	101.08	Initial Hydro-static
1	26.88	100.84	Open To Flow (1)
31	69.42	102.92	Shut-In(1)
75	453.67	103.86	End Shut-In(1)
76	67.67	103.82	Open To Flow (2)
106	82.89	103.78	Shut-In(2)
166	563.16	104.83	End Shut-In(2)
166	1644.69	105.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMO / G 10% M 30% O 60%	0.30
62.00	GMO / G 50% M 20% O 30%	0.34
67.00	GOM / G 10% O 10% M 80%	0.94
0.00	869 feet GIP	0.00

Gas Rates

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



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FLUID SUMMARY

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32/20S/13W/Barton

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Gaunt 32A-1

Job Ticket: 66291

DST#: 1

Test Start: 2019.09.10 @ 14:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 8.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.78 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GMO / G 10% M 30% O 60%	0.305
62.00	GMO / G 50% M 20% O 30%	0.341
67.00	GOM / G 10% O 10% M 80%	0.940
0.00	869 feet GIP	0.000

Total Length: 191.00 ft

Total Volume: 1.586 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: