

**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Cholla Production LLC  
 10490 Bradford Rd  
 Suite 201  
 Littleton CO 80127  
 ATTN: Charlie Strudevant

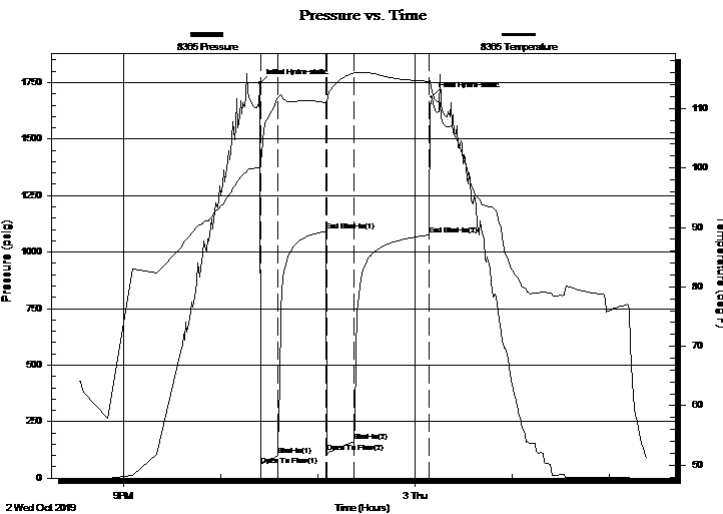
**3/16S/20W/Rush**  
**Zimmerman 1-3**  
 Job Ticket: 66251 **DST#: 3**  
 Test Start: 2019.10.02 @ 20:33:00

## GENERAL INFORMATION:

Formation: **Lansing G**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:25:02  
 Time Test Ended: 02:23:02  
 Interval: **3554.00 ft (KB) To 3597.00 ft (KB) (TVD)**  
 Total Depth: 3597.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Hays 60  
 Reference Elevations: 2173.00 ft (KB)  
 2166.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8365** **Inside**  
 Press@RunDepth: 163.20 psig @ 3555.00 ft (KB) Capacity: psig  
 Start Date: 2019.10.02 End Date: 2019.10.03 Last Calib.: 2019.10.03  
 Start Time: 20:33:00 End Time: 02:23:02 Time On Btm: 2019.10.02 @ 22:24:02  
 Time Off Btm: 2019.10.03 @ 00:10:17

**TEST COMMENT:** IF 10 Minutes/ Blow to BOB in 5 minutes/ Total build 27 inches  
 ISI 30 Minutes/ 2 inch blow back  
 FF 17 Minutes/ Blow to BOB in 4 1/2 minutes/ Total build 33 inches  
 FSI 45 Minutes/ Blow back to BOB



## PRESSURE SUMMARY

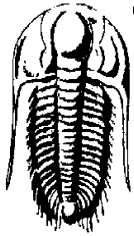
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1746.24	100.03	Initial Hydro-static
1	58.83	100.92	Open To Flow (1)
12	99.31	111.81	Shut-In(1)
41	1091.97	111.00	End Shut-In(1)
42	112.42	111.23	Open To Flow (2)
59	163.20	115.98	Shut-In(2)
105	1075.56	114.56	End Shut-In(2)
107	1686.87	113.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCOW / M 5% Emulsified oil 10% W 85%	0.65
231.00	GMCWO / G 15% M 10% W 20% Emuls.	3.24%
0.00	449 feet GIP	0.00
0.00		0.00

## Gas Rates

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



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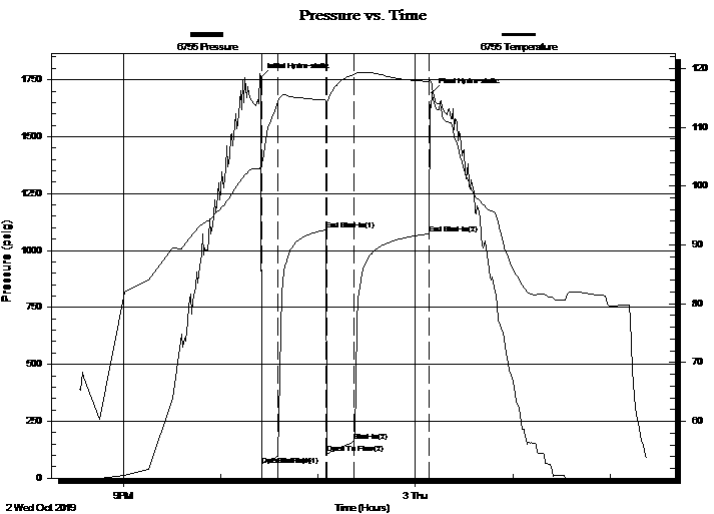
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 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Hays 60  
 Reference Elevations: 2173.00 ft (KB)  
 2166.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 6755 Outside**  
 Press@RunDepth: 1073.74 psig @ 3556.00 ft (KB) Capacity: psig  
 Start Date: 2019.10.02 End Date: 2019.10.03 Last Calib.: 2019.10.03  
 Start Time: 20:33:00 End Time: 02:23:02 Time On Btm: 2019.10.02 @ 22:24:47  
 Time Off Btm: 2019.10.03 @ 00:10:17

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 FF 17 Minutes/ Blow to BOB in 4 1/2 minutes/ Total build 33 inches  
 FSI 45 Minutes/ Blow back to BOB



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1760.51	103.28	Initial Hydro-static
1	58.63	103.32	Open To Flow (1)
11	96.64	114.35	Shut-In(1)
40	1090.42	114.59	End Shut-In(1)
41	109.91	114.40	Open To Flow (2)
58	161.75	119.01	Shut-In(2)
104	1073.74	117.77	End Shut-In(2)
106	1692.96	117.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCOV / M 5% Emulsified oil 10% W 85% 0.65	
231.00	GMCWO / G 15% M 10% W 20% Emuls. 3.24%	
0.00	449 feet GIP	0.00
0.00		0.00

## Gas Rates

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

