



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Indian Oil Co. Inc  
 PO Box 209  
 Medicine Lodge, Kansas  
 67104+0209  
 ATTN: Aaron Young

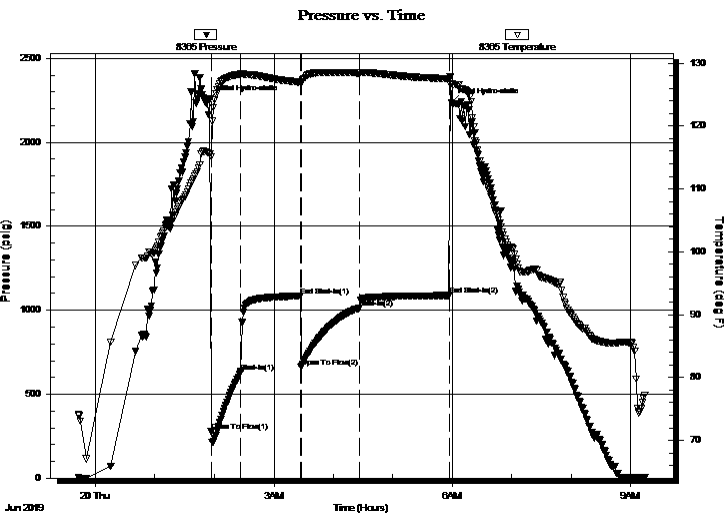
**5/30S/13W/Barber**  
**Bell C #3**  
 Job Ticket: 66277 **DST#: 4**  
 Test Start: 2019.06.19 @ 23:43:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:56:32  
 Time Test Ended: 09:14:47  
 Interval: **4648.00 ft (KB) To 4690.00 ft (KB) (TVD)**  
 Total Depth: 4690.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Pratt/ 38  
 Reference Elevations: 1943.00 ft (KB)  
 1931.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 8365 Inside**  
 Press@RunDepth: 1012.18 psig @ 4649.00 ft (KB) Capacity: psig  
 Start Date: 2019.06.19 End Date: 2019.06.20 Last Calib.: 2019.06.20  
 Start Time: 23:43:01 End Time: 09:14:47 Time On Btm: 2019.06.20 @ 01:55:17  
 Time Off Btm: 2019.06.20 @ 05:59:02

**TEST COMMENT:** IF 30 Minutes/ Blow to BOB in 1 min/ Total build 153 inches  
 ISI 60 Minutes/ Blow back to BOB in 35 min  
 FF 60 Minutes/ Blow to BOB in 2 1/2 min/ Total build 132 inches  
 FSI 90 Minutes/ Blow back to BOB in 49 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2257.67	115.65	Initial Hydro-static
2	276.46	115.12	Open To Flow (1)
32	634.26	128.28	Shut-In(1)
92	1084.69	126.92	End Shut-In(1)
92	662.35	126.70	Open To Flow (2)
152	1012.18	128.43	Shut-In(2)
242	1088.25	127.49	End Shut-In(2)
244	2235.00	126.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1550.00	GSOCMW/ G10% O1% M5% W 84%	20.65
248.00	GOCMW/ G 40% O 10% M10% W40%	3.48
341.00	GOCMW/ G 20% O 10% M10% W60%	4.78
0.00	837 feet GIP	0.00

## Gas Rates

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



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**Bell C #3**

Job Ticket: 66277

**DST#: 4**

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 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 72 Pratt/ 38  
 Reference Elevations: 1943.00 ft (KB)  
 1931.00 ft (CF)  
 KB to GR/CF: 12.00 ft

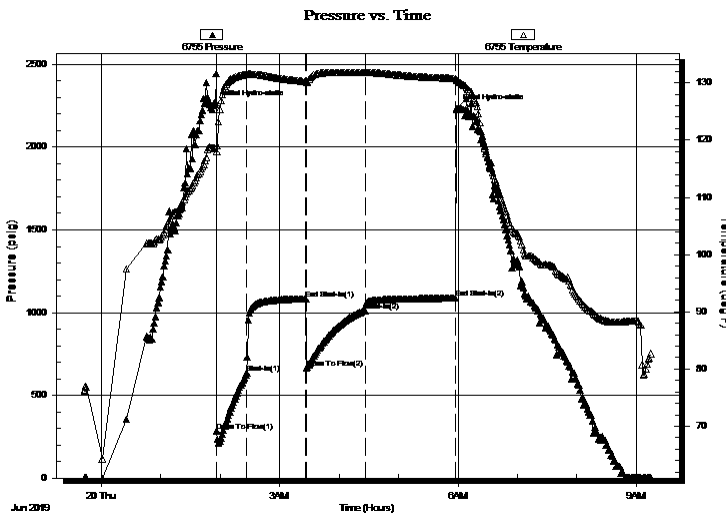
## Serial #: 6755

**Outside**

Press@RunDepth: 1087.38 psig @ 4650.00 ft (KB) Capacity: psig  
 Start Date: 2019.06.19 End Date: 2019.06.20 Last Calib.: 2019.06.20  
 Start Time: 23:43:01 End Time: 09:14:47 Time On Btm: 2019.06.20 @ 01:55:17  
 Time Off Btm: 2019.06.20 @ 05:58:32

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 1 min/ Total build 153 inches  
 ISI 60 Minutes/ Blow back to BOB in 35 min  
 FF 60 Minutes/ Blow to BOB in 2 1/2 min/ Total build 132 inches  
 FSI 90 Minutes/ Blow back to BOB in 49 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.30	118.54	Initial Hydro-static
2	282.48	117.97	Open To Flow (1)
32	633.04	131.50	Shut-In(1)
91	1083.49	130.20	End Shut-In(1)
92	663.64	130.11	Open To Flow (2)
152	1011.13	131.74	Shut-In(2)
242	1087.38	130.78	End Shut-In(2)
244	2234.27	130.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1550.00	GSOCMW/ G10% O1% M5% W 84%	20.65
248.00	GOCMW/ G 40% O 10% M10% W40%	3.48
341.00	GOCMW/ G 20% O 10% M10% W60%	4.78
0.00	837 feet GIP	0.00

## Gas Rates

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



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**FLUID SUMMARY**

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PO Box 209  
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67104+0209  
ATTN: Aaron Young

**5/30S/13W/Barber**  
**Bell C #3**  
Job Ticket: 66277      **DST#: 4**  
Test Start: 2019.06.19 @ 23:43:00

## 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:	22000 ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.98 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1550.00	GSOCMW/ G10% O1% M5% W 84%	20.649
248.00	GOCMW/ G 40% O 10% M10% W40%	3.479
341.00	GOCMW/ G 20% O 10% M10% W60%	4.783
0.00	837 feet GIP	0.000

Total Length: 2139.00 ft      Total Volume: 28.911 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Recovery Resistivity .245 ohms @ 83 deg

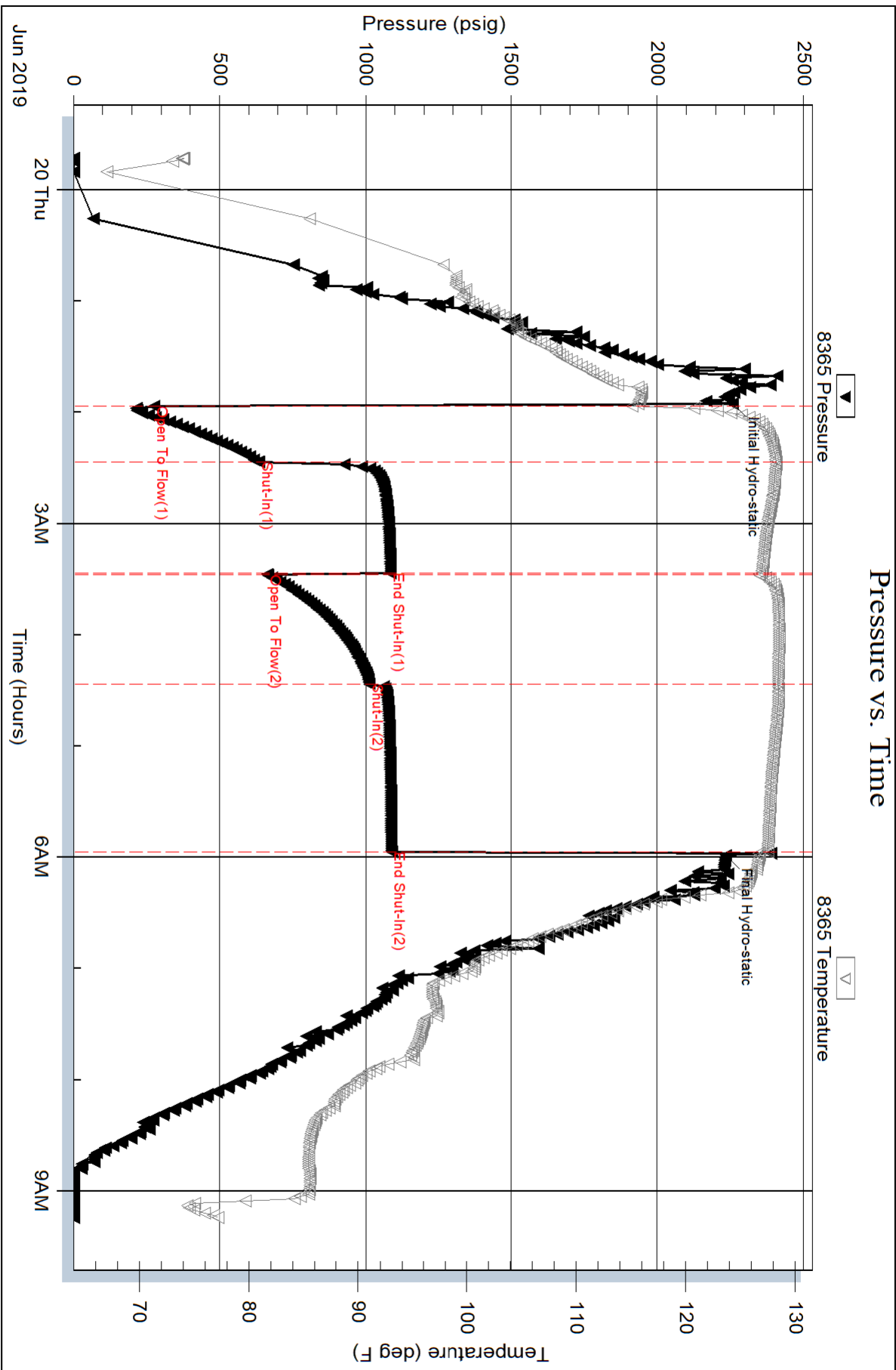
Serial #: 8365

Inside

Indian Oil Co. Inc

Bell C#3

DST Test Number: 4



### Pressure vs. Time

