



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

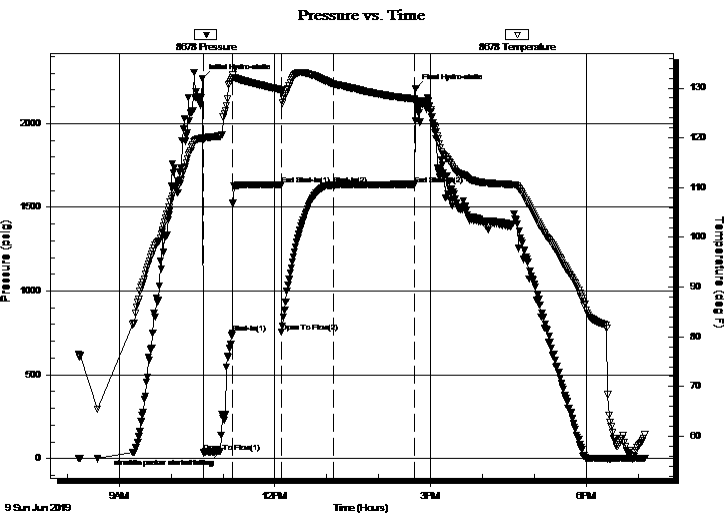
**17 - 30 - 13W**  
**Reta #1**  
Job Ticket: 65937      **DST#: 5**  
Test Start: 2019.06.09 @ 08:13:00

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 10:37:30  
Time Test Ended: 19:08:30  
**Interval: 4376.00 ft (KB) To 4424.00 ft (KB) (TVD)**  
Total Depth: 4758.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Straddle (Initial)  
Tester: Royal Fisher  
Unit No: #77  
Reference Elevations: 1846.00 ft (KB)  
1834.00 ft (CF)  
KB to GR/CF: 12.00 ft

**Serial #: 8678      Inside**  
Press@RunDepth: 1632.44 psig @ 4377.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.06.09      End Date: 2019.06.09      Last Calib.: 2019.06.09  
Start Time: 08:13:05      End Time: 19:08:30      Time On Btm: 2019.06.09 @ 10:36:30  
Time Off Btm: 2019.06.09 @ 14:43:00

**TEST COMMENT:** 30 - IFP - Surface blow built to B.o.B. in 25 mins. straddle packer failed 20 minutes into initial flow  
60 - ISI - No Return  
60 - FFP - Surface blow built to B.o.B. in 2 mins.  
90 - FSI - No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2267.09	120.01	Initial Hydro-static
1	37.67	119.69	Open To Flow (1)
21	42.09	120.34	straddle packer started failing
35	749.70	132.13	Shut-In(1)
91	1635.34	129.61	End Shut-In(1)
92	756.41	129.02	Open To Flow (2)
151	1632.44	130.80	Shut-In(2)
246	1636.42	127.78	End Shut-In(2)
247	2207.53	127.38	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
551.00	WM - 10%w - 90%m	5.01
630.00	WM - 45%w - 55%m	6.46
1260.00	MW - 30%m - 70%w	12.93
940.00	MW - 10%m - 90%w	9.65

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







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**FLUID SUMMARY**

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**17 - 30 - 13W**  
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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: 52000 ppm	
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: 1.00 inches			

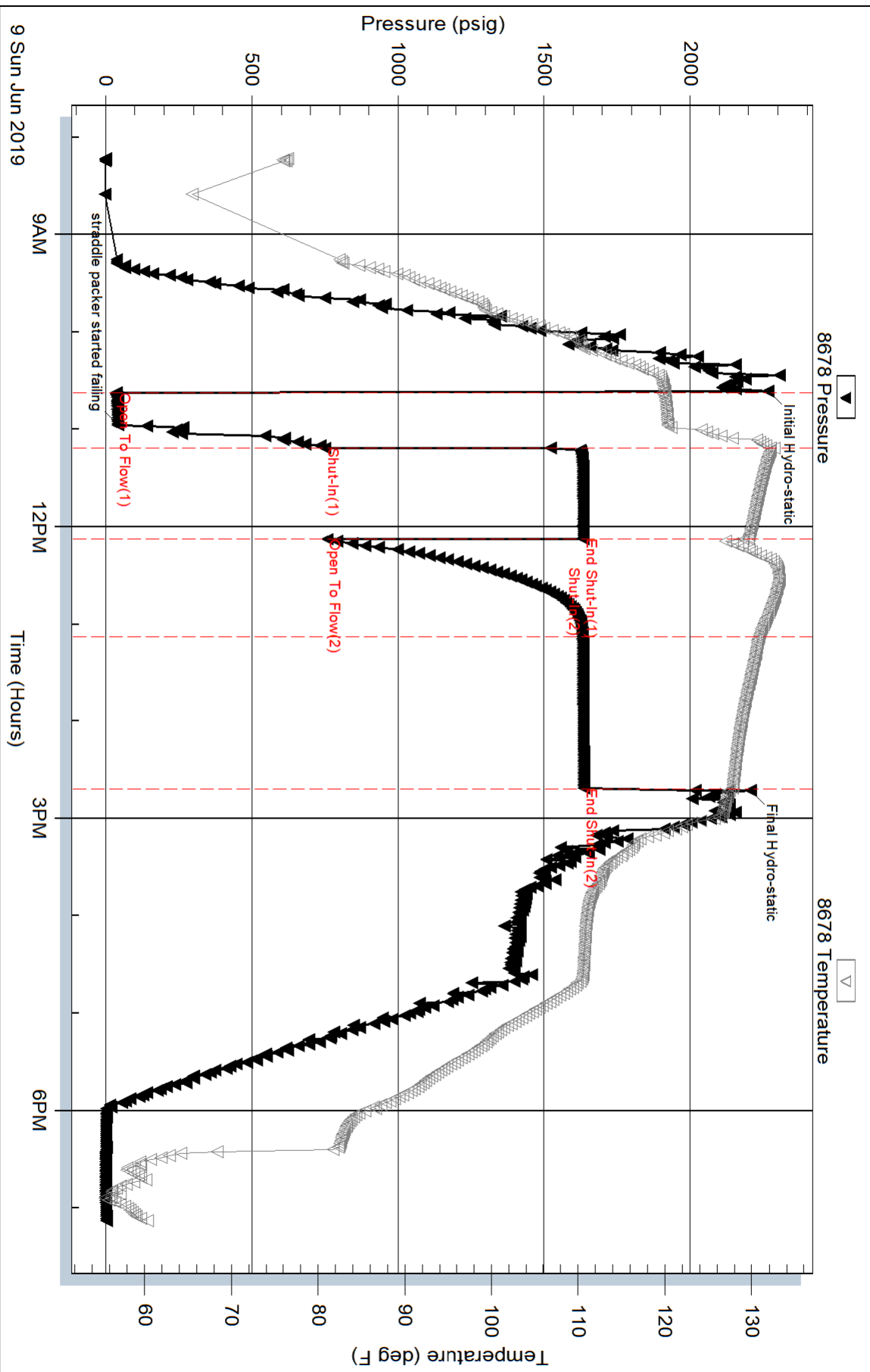
## Recovery Information

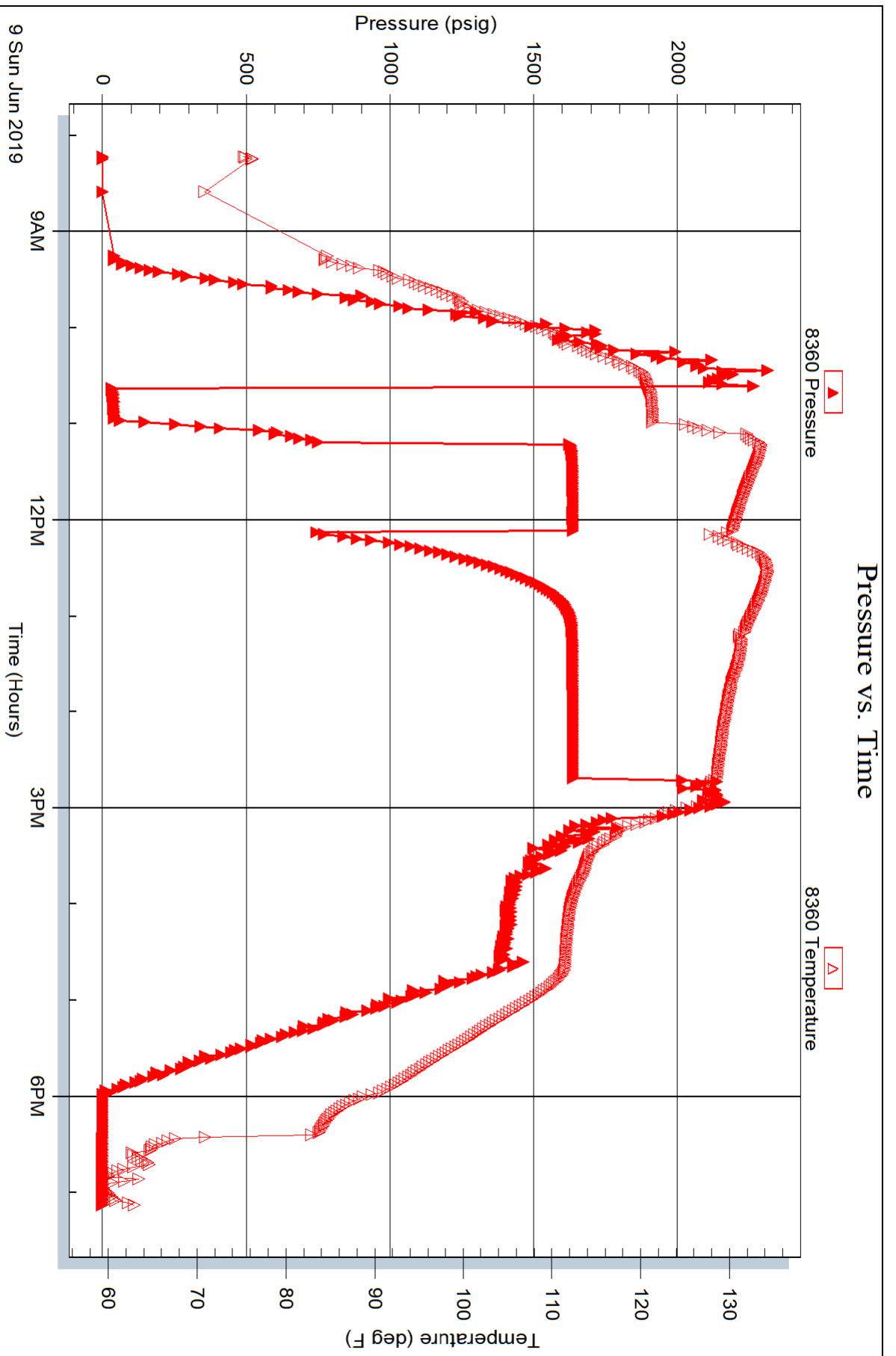
Recovery Table

Length ft	Description	Volume bbl
551.00	WM - 10%w - 90%m	5.006
630.00	WM - 45%w - 55%m	6.464
1260.00	MW - 30%m - 70%w	12.928
940.00	MW - 10%m - 90%w	9.645

Total Length: 3381.00 ft      Total Volume: 34.043 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

### Pressure vs. Time





Serial #: 8671

Inside

Indian Oil Co., Inc.

Reta #1

DST Test Number: 5

