



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

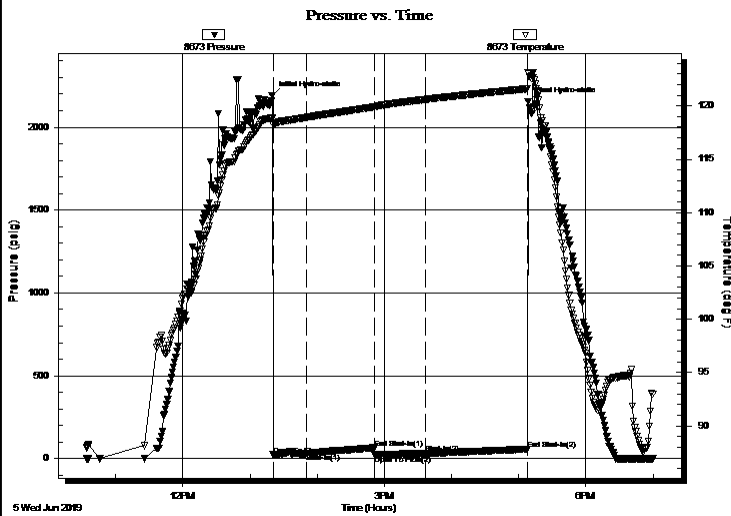
17 - 30 - 13W
Reta #1
Job Ticket: 65933 **DST#: 1**
Test Start: 2019.06.05 @ 10:34:00

GENERAL INFORMATION:

Formation: **marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:20:45
Time Test Ended: 19:00:30
Interval: **4310.00 ft (KB) To 4376.00 ft (KB) (TVD)**
Total Depth: 4376.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (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 #: 8673 Outside
Press@RunDepth: 29.29 psig @ 4311.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2019.06.05 End Date: 2019.06.05 Last Calib.: 2019.06.05
Start Time: 10:34:05 End Time: 19:00:29 Time On Btm: 2019.06.05 @ 13:20:00
Time Off Btm: 2019.06.05 @ 17:08:30

TEST COMMENT: 30 - IFP - Surface blow built up to 3/4"
60 - ISI - No Return
45 - FFP - Surface blow stayed at a weak blow throughout
90 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2190.91	118.86	Initial Hydro-static
1	22.84	118.26	Open To Flow (1)
31	30.75	118.92	Shut-In(1)
91	65.08	119.89	End Shut-In(1)
92	22.98	119.90	Open To Flow (2)
137	29.29	120.60	Shut-In(2)
228	57.53	121.59	End Shut-In(2)
229	2153.91	123.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM - Oil Spots - 100%m	0.05

Gas Rates

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



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FLUID SUMMARY

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17 - 30 - 13W
Reta #1
Job Ticket: 65933 **DST#: 1**
Test Start: 2019.06.05 @ 10:34:00

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:	ppm
Viscosity: 75.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

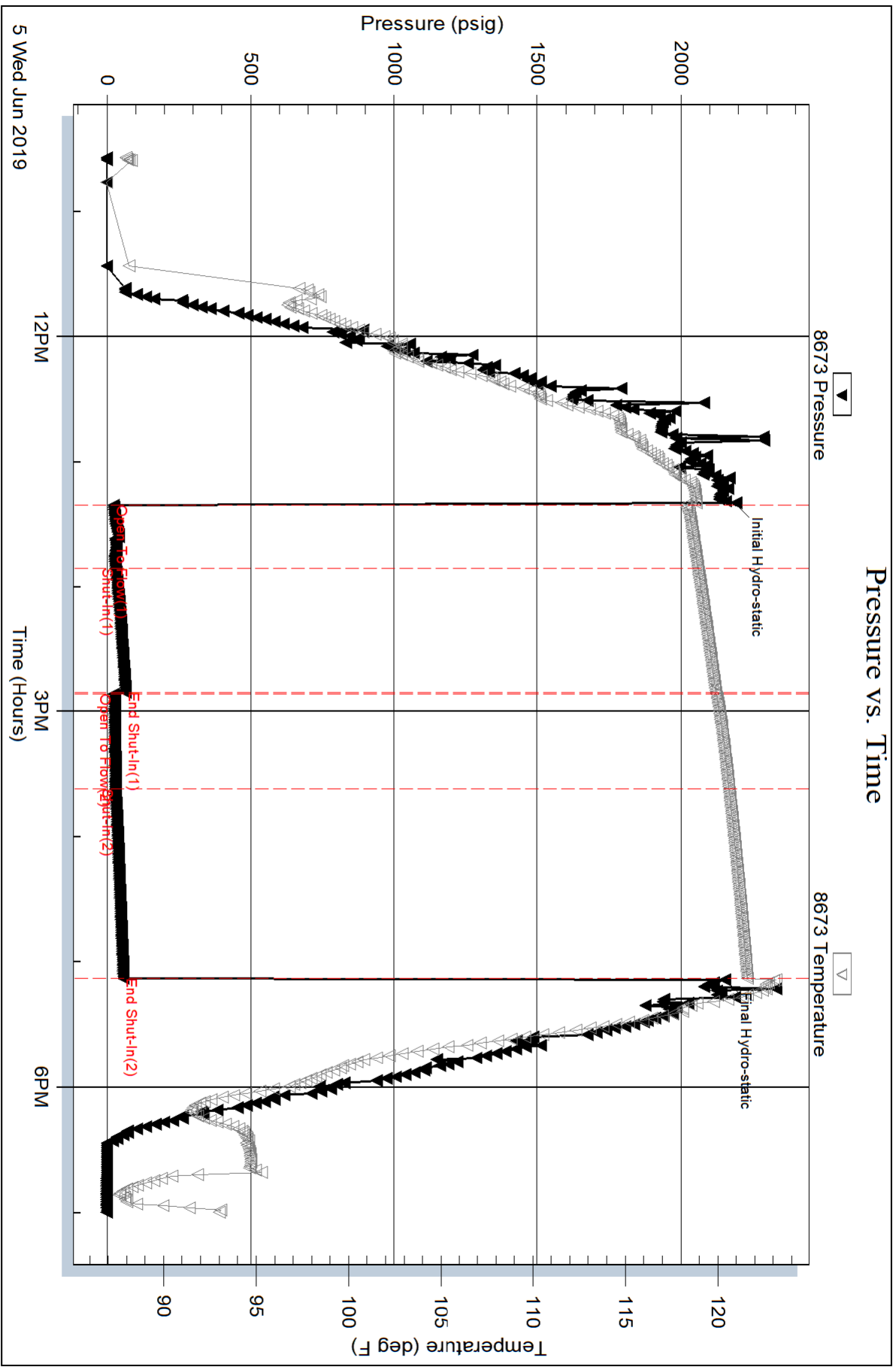
Length ft	Description	Volume bbl
10.00	OSM - Oil Spots - 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:



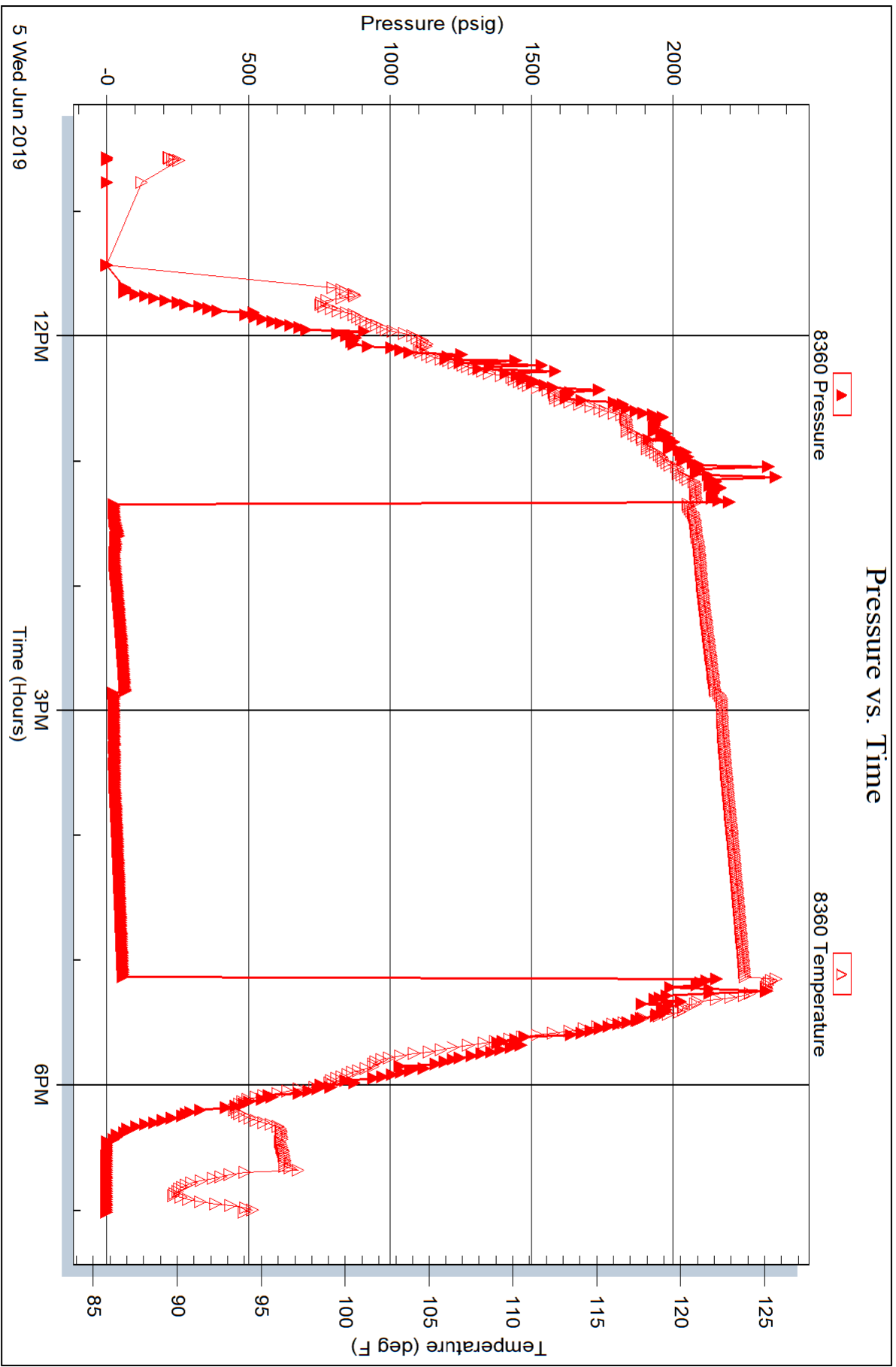
Serial #: 8360

Inside

Indian Oil Co., Inc.

Reta #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65933

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