



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pioneer Oil Co Inc
400 Main St Box 237
Vincennes IN 47501-0237
ATTN: Jim Musgrove

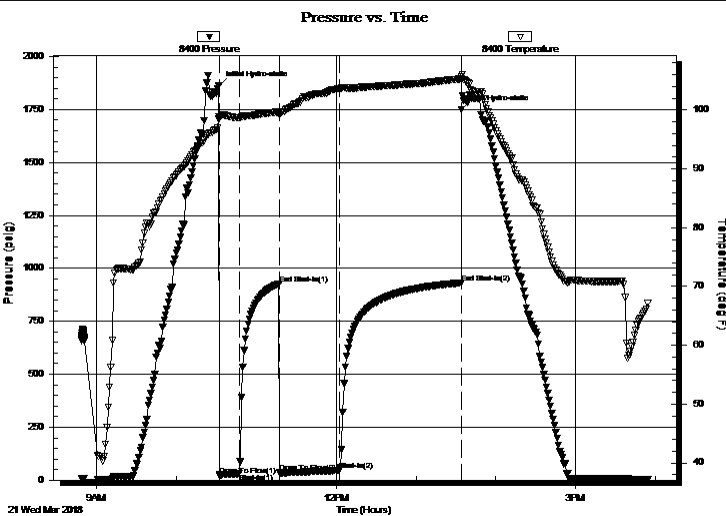
27 6s 26w Sherdian KS
Ficken 1-27
Job Ticket: 64518 **DST#: 3**
Test Start: 2018.03.21 @ 08:49:00

GENERAL INFORMATION:

Formation: **LKC " F "**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 10:32:31 Tester: Jim Svaty
Time Test Ended: 15:54:00 Unit No: 76
Interval: 3830.00 ft (KB) To 3854.00 ft (KB) (TVD) Reference Elevations: 2646.00 ft (KB)
Total Depth: 3854.00 ft (KB) (TVD) 2638.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8400 Inside
Press@RunDepth: 46.31 psig @ 3831.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.03.21 End Date: 2018.03.21 Last Calib.: 2018.03.21
Start Time: 08:49:01 End Time: 15:54:01 Time On Btm: 2018.03.21 @ 10:32:16
Time Off Btm: 2018.03.21 @ 13:34:16

TEST COMMENT: 15-IFP- Surface Blow Building to 1 3/4in.
30-ISIP- No Blow
45-FFP- Surface Blow Building to 2 1/4in.
90-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1864.39	98.91	Initial Hydro-static
1	22.92	98.50	Open To Flow (1)
15	30.48	98.69	Shut-In(1)
45	927.99	99.68	End Shut-In(1)
46	35.46	99.16	Open To Flow (2)
91	46.31	103.64	Shut-In(2)
182	931.46	105.27	End Shut-In(2)
182	1750.49	105.73	Final Hydro-static

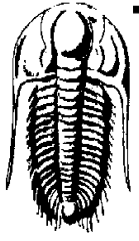
Recovery

Length (ft)	Description	Volume (bbl)
35.00	WCM 30%w 70%m	0.26

Gas Rates

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

* Recovery from multiple tests



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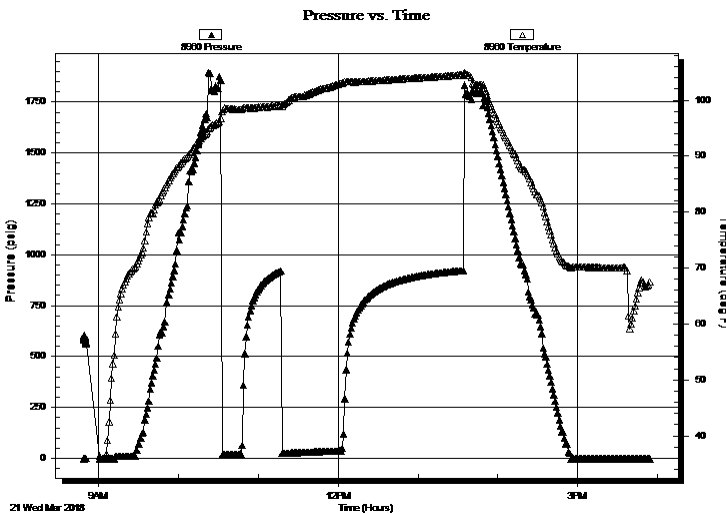
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Total Depth: 3854.00 ft (KB) (TVD) 2638.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8960 Outside
Press@RunDepth: psig @ 3831.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.03.21 End Date: 2018.03.21 Last Calib.: 2018.03.21
Start Time: 08:49:01 End Time: 15:54:01 Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IFP- Surface Blow Building to 1 3/4in.
30-ISIP- No Blow
45-FFP- Surface Blow Building to 2 1/4in.
90-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
35.00	WCM 30%w 70%m	0.26

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Oil Co Inc
400 Main St Box 237
Vincennes IN 47501-0237
ATTN: Jim Musgrove

27 6s 26w Sherdian KS
Ficken 1-27
Job Ticket: 64518 **DST#: 3**
Test Start: 2018.03.21 @ 08:49:00

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:	12000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	WCM 30%w 70%m	0.257

Total Length: 35.00 ft Total Volume: 0.257 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Sampler--800ml-Mud--1200ml-Water .317 @ 65= 23000ppm--220psi
 .577 @ 65

Serial #: 8400

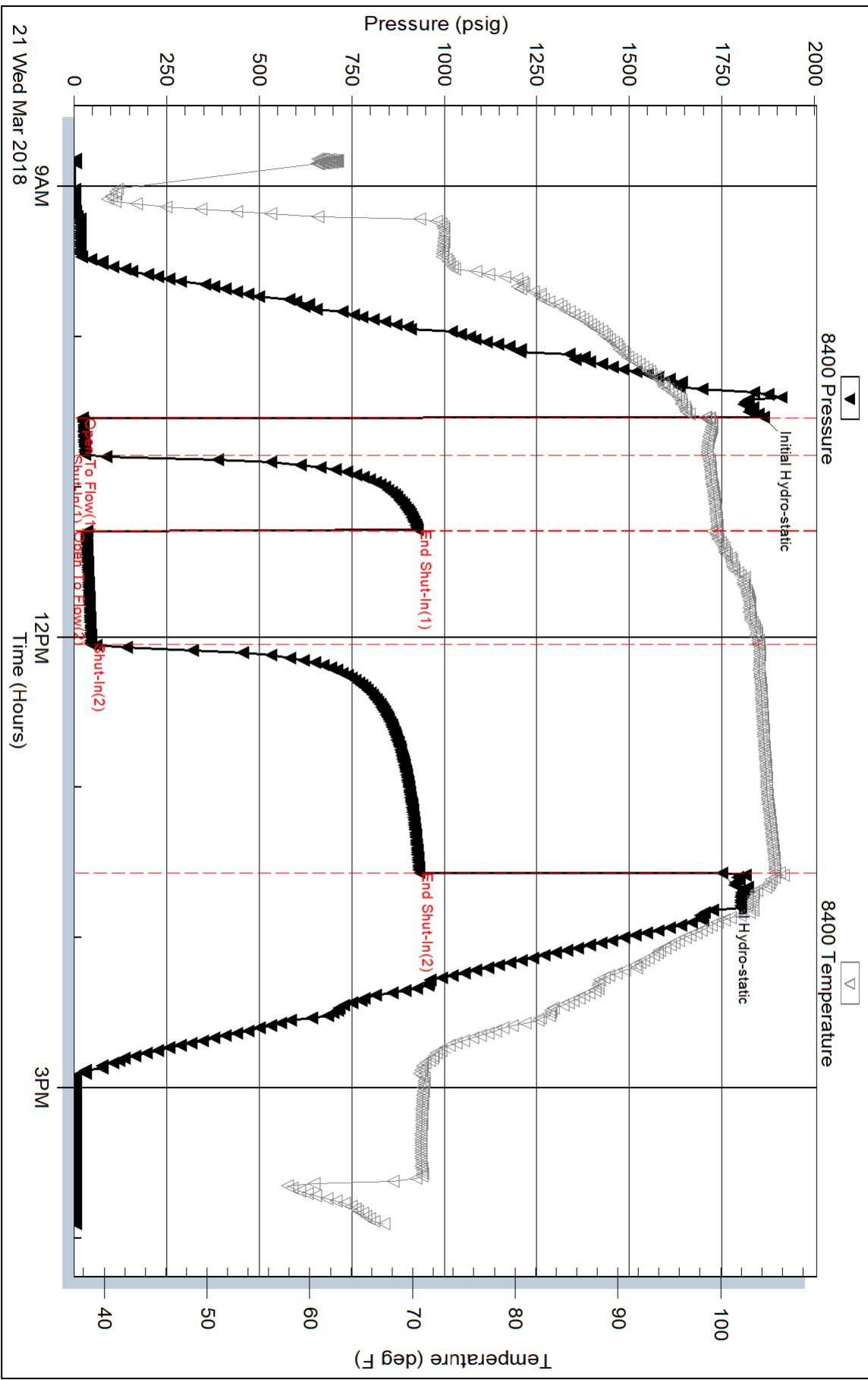
Inside

Pioneer Oil Co Inc

Ficken 1-27

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64518

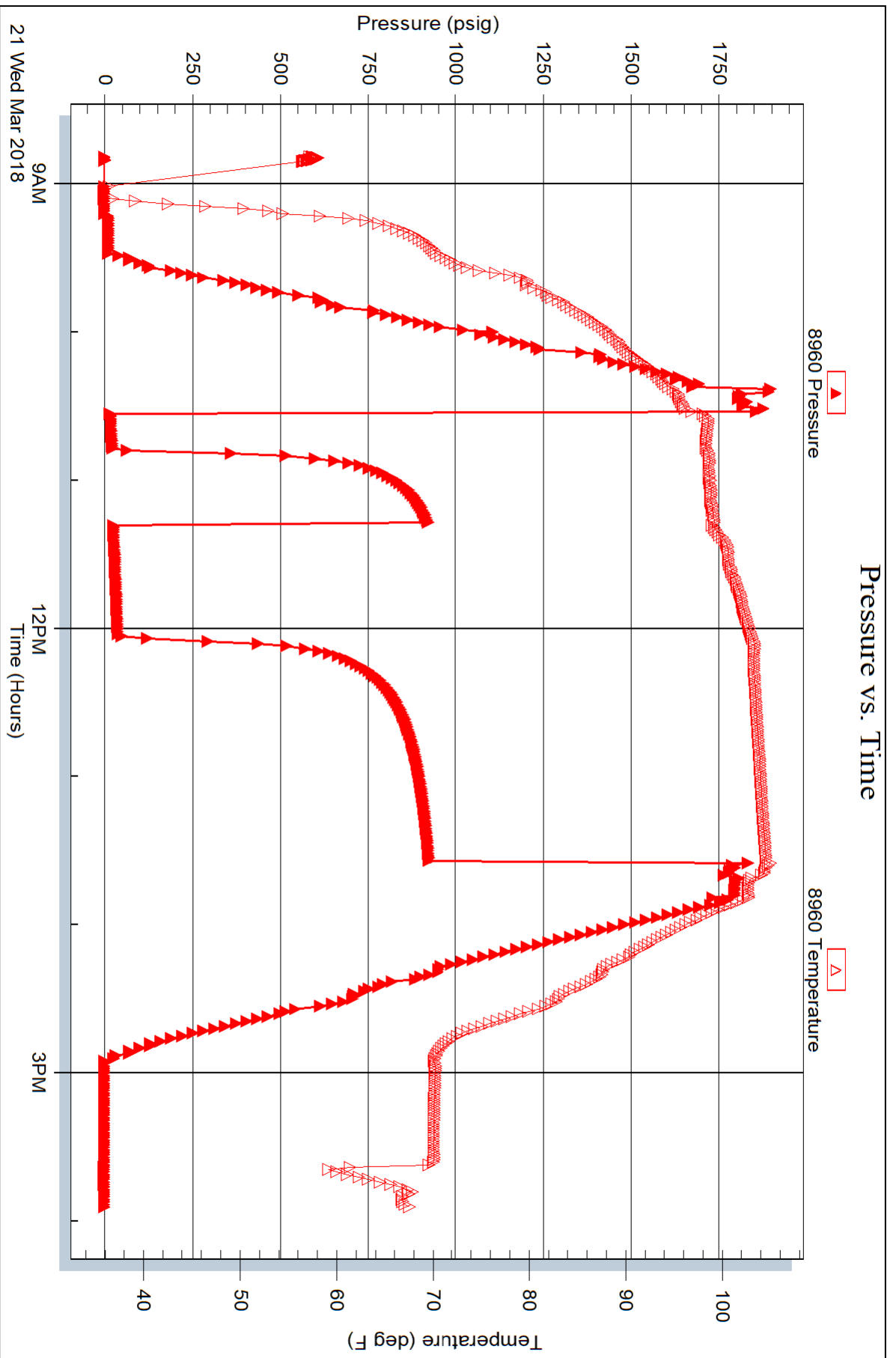
Printed: 2018.03.21 @ 16:27:06

Serial #: 8960

Outside Pioneer Oil Co Inc

Ficken 1-27

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64518

Printed: 2018.03.21 @ 16:27:06