



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Deutsch Oil Co
8100 E 22nd Street North
Building 800
Wichita, Kansas 67226
ATTN: Aaron Young

18-26S-11W Pratt
Triple M 1-18
Job Ticket: 63988 **DST#: 3**
Test Start: 2018.07.16 @ 17:32:56

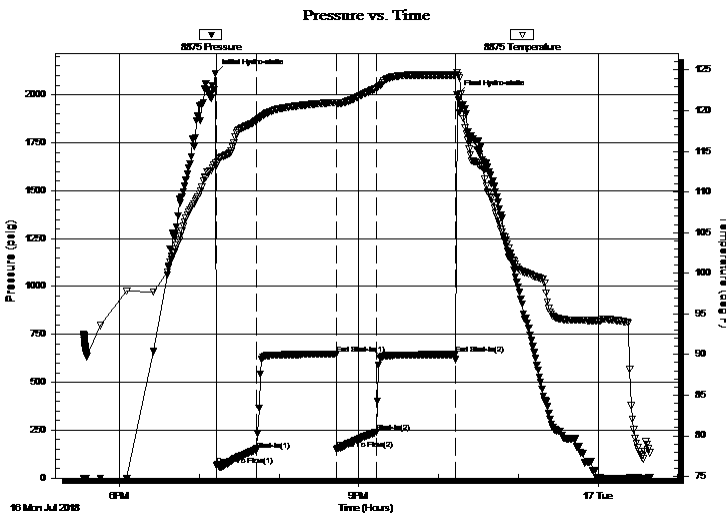
GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 19:12:58 Tester: Leal Cason
Time Test Ended: 00:38:58 Unit No: 74
Interval: 4146.00 ft (KB) To 4256.00 ft (KB) (TVD) Reference Elevations: 1865.00 ft (KB)
Total Depth: 4256.00 ft (KB) (TVD) 1858.00 ft (CF)
Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8875 Inside
Press@RunDepth: 238.70 psig @ 4147.00 ft (KB) Capacity: psig
Start Date: 2018.07.16 End Date: 2018.07.17 Last Calib.: 2018.07.17
Start Time: 17:32:57 End Time: 00:38:58 Time On Btm: 2018.07.16 @ 19:11:58
Time Off Btm: 2018.07.16 @ 22:13:58

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds, Built to 60.5 inches
IS: No Blow Back
FF: Fair Blow , BOB in 8 minutes, Built to 38.5 inches
FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.11	113.53	Initial Hydro-static
1	66.69	113.20	Open To Flow (1)
31	148.23	118.68	Shut-In(1)
91	646.02	120.98	End Shut-In(1)
92	152.00	120.95	Open To Flow (2)
121	238.70	122.73	Shut-In(2)
181	645.38	124.41	End Shut-In(2)
182	2002.80	124.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
372.00	MCW 30%M 70%W	5.22
92.00	GWCM 5%G 20%W 75%M	1.29

* Recovery from multiple tests

Gas Rates

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



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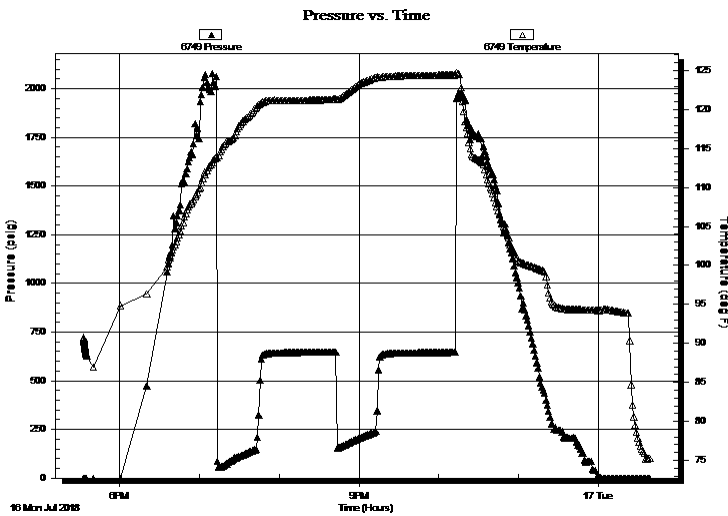
GENERAL INFORMATION:

Formation: Viola			Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)			Tester: Leal Cason
Time Tool Opened: 19:12:58			Unit No: 74
Time Test Ended: 00:38:58			Reference Elevations: 1865.00 ft (KB)
Interval: 4146.00 ft (KB) To 4256.00 ft (KB) (TVD)			1858.00 ft (CF)
Total Depth: 4256.00 ft (KB) (TVD)			KB to GR/CF: 7.00 ft
Hole Diameter: 7.80 inches	Hole Condition: Good		

Serial #: 6749 Outside

Press@RunDepth: psig @ 4147.00 ft (KB)	Capacity: psig
Start Date: 2018.07.16 End Date: 2018.07.17	Last Calib.: 2018.07.17
Start Time: 17:32:53 End Time: 00:38:54	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds, Built to 60.5 inches
 IS: No Blow Back
 FF: Fair Blow , BOB in 8 minutes, Built to 38.5 inches
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
372.00	MCW 30%M 70%W	5.22
92.00	GWCM 5%G 20%W 75%M	1.29

Gas Rates

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

* Recovery from multiple tests



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DRILL STEM TEST REPORT

FLUID SUMMARY

Deutsch Oil Co
8100 E 22nd Street North
Building 800
Wichita, Kansas 67226
ATTN: Aaron Young

18-26S-11W Pratt
Triple M 1-18
Job Ticket: 63988 **DST#: 3**
Test Start: 2018.07.16 @ 17:32:56

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:	68000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 11000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	MCW 30%M 70%W	5.218
92.00	GWCM 5%G 20%W 75%M	1.291

Total Length: 464.00 ft Total Volume: 6.509 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW was .09 @ 87 degrees

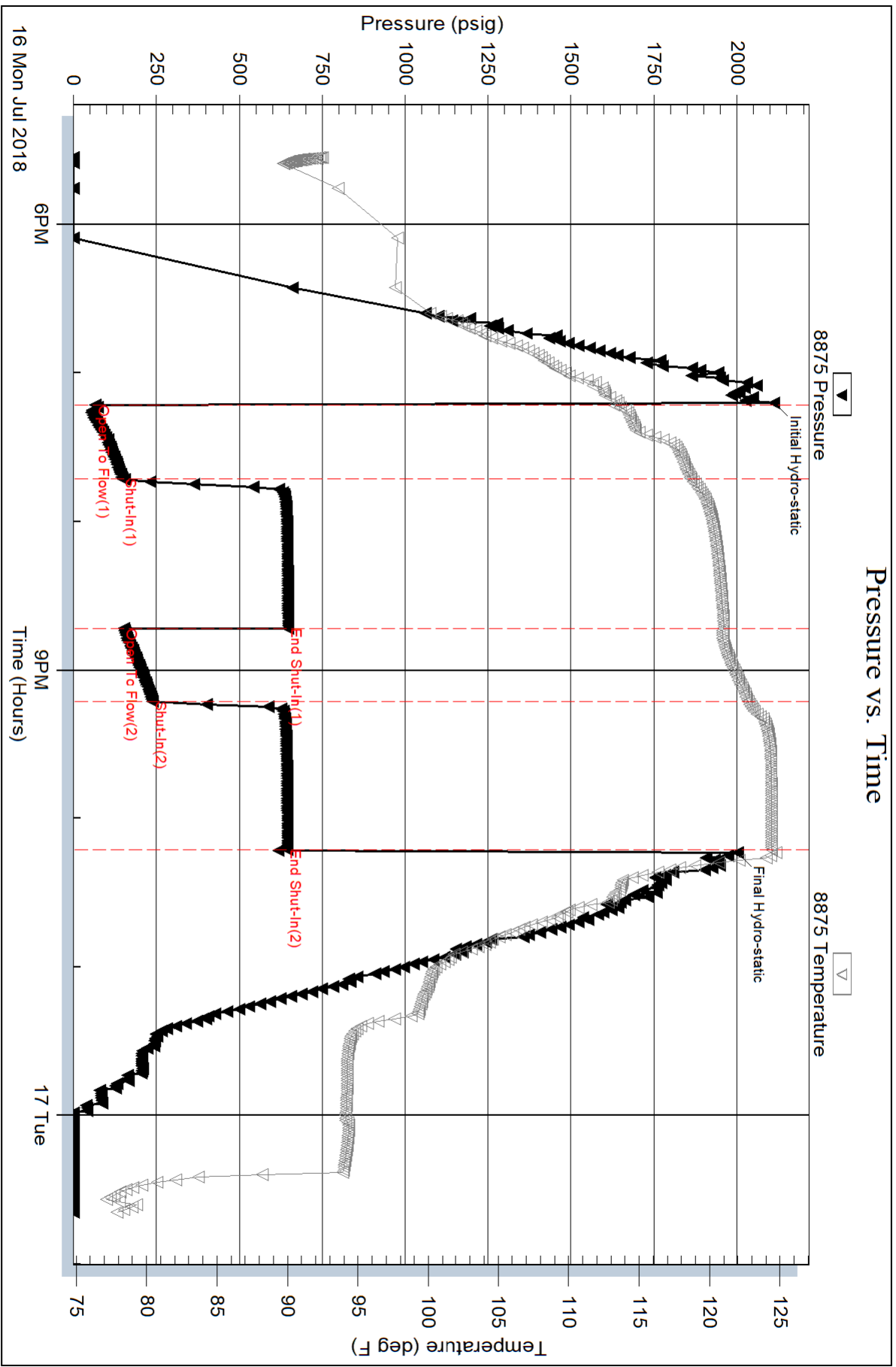
Serial #: 8875

Inside

Deutsch Oil Co

Triple M-1-18

DST Test Number: 3



Serial #: 6749

Outside Deutsch Oil Co

Triple M1-18

DST Test Number: 3

