

DRILL STEM TEST REPORT

Prepared For: **American Oil LLC**

1200 Main Suite 410
Hays KS 67601

ATTN: Austin Klaus

Nordman #1-19

19-18s-14w Barton,KS

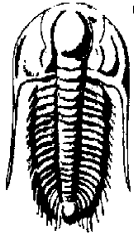
Start Date: 2018.04.24 @ 00:54:00

End Date: 2018.04.24 @ 08:35:30

Job Ticket #: 63773 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.04.25 @ 13:35:32



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Oil LLC
 1200 Main Suite 410
 Hays KS 67601
 ATTN: Austin Klaus

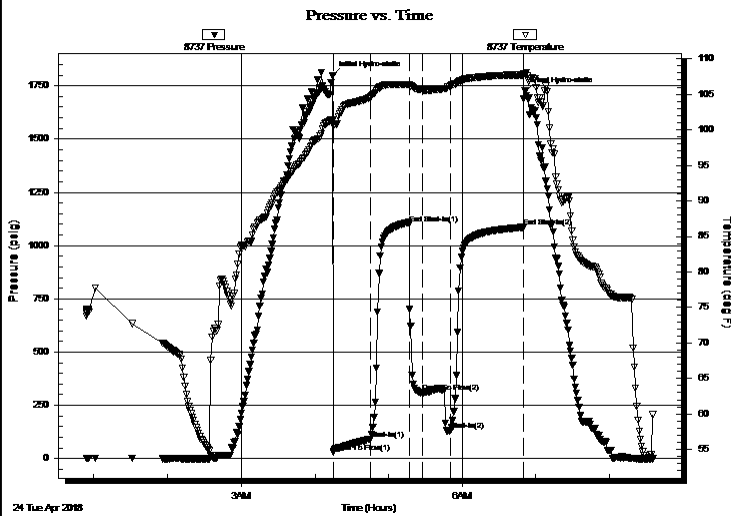
19-18s-14w Barton,KS
Nordman #1-19
 Job Ticket: 63773 **DST#: 1**
 Test Start: 2018.04.24 @ 00:54:00

GENERAL INFORMATION:

Formation: **LKC H-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:14:50
 Time Test Ended: 08:35:30
 Interval: **3384.00 ft (KB) To 3466.00 ft (KB) (TVD)**
 Total Depth: 3466.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer Staab/Cade G
 Unit No: 65
 Reference Elevations: 1931.00 ft (KB)
 1923.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8737 Outside
 Press@RunDepth: 132.34 psig @ 3389.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.04.24 End Date: 2018.04.24 Last Calib.: 2018.04.24
 Start Time: 00:54:01 End Time: 08:35:30 Time On Btm: 2018.04.24 @ 04:14:40
 Time Off Btm: 2018.04.24 @ 06:51:09

TEST COMMENT: IF- Strong blow , BOB in 6 min
 IS- No blow
 FF- Strong blow , BOB in 12 min
 FS- Fair blow , BOB in 40 min



PRESSURE SUMMARY

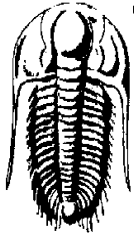
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.98	101.33	Initial Hydro-static
1	30.15	100.51	Open To Flow (1)
31	91.48	104.61	Shut-In(1)
62	1101.77	106.36	End Shut-In(1)
73	309.54	105.62	Open To Flow (2)
96	132.34	106.24	Shut-In(2)
155	1085.62	107.68	End Shut-In(2)
157	1725.04	107.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	GHOCM 20%g 35%o 45%m	2.10
80.00	CO 100%o	1.12
0.00	945' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Oil LLC

19-18s-14w Barton,KS

1200 Main Suite 410
Hays KS 67601

Nordman #1-19

Job Ticket: 63773

DST#: 1

ATTN: Austin Klaus

Test Start: 2018.04.24 @ 00:54:00

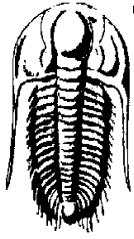
Tool Information

Drill Pipe:	Length: 3329.00 ft	Diameter: 3.80 inches	Volume: 46.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.74 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3384.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	110.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3357.00	
Shut In Tool	5.00			3362.00	
Hydraulic tool	5.00			3367.00	
Jars	5.00			3372.00	
Safety Joint	3.00			3375.00	
Packer	5.00			3380.00	28.00 Bottom Of Top Packer
Packer	4.00			3384.00	
Stubb	1.00			3385.00	
Perforations	3.00			3388.00	
Change Over Sub	1.00			3389.00	
Recorder	0.00	8653	Inside	3389.00	
Recorder	0.00	8737	Outside	3389.00	
Drill Pipe	63.00			3452.00	
Change Over Sub	1.00			3453.00	
perforations	10.00			3463.00	
Bullnose	3.00			3466.00	82.00 Bottom Packers & Anchor
Total Tool Length:	110.00				



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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Oil LLC

19-18s-14w Barton,KS

1200 Main Suite 410
Hays KS 67601

Nordman #1-19

Job Ticket: 63773

DST#: 1

ATTN: Austin Klaus

Test Start: 2018.04.24 @ 00:54:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 28000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	GHOCM 20%g 35%o 45%m	2.102
80.00	CO 100%o	1.122
0.00	945' GIP	0.000

Total Length: 250.00 ft

Total Volume: 3.224 bbl

Num Fluid Samples: 0

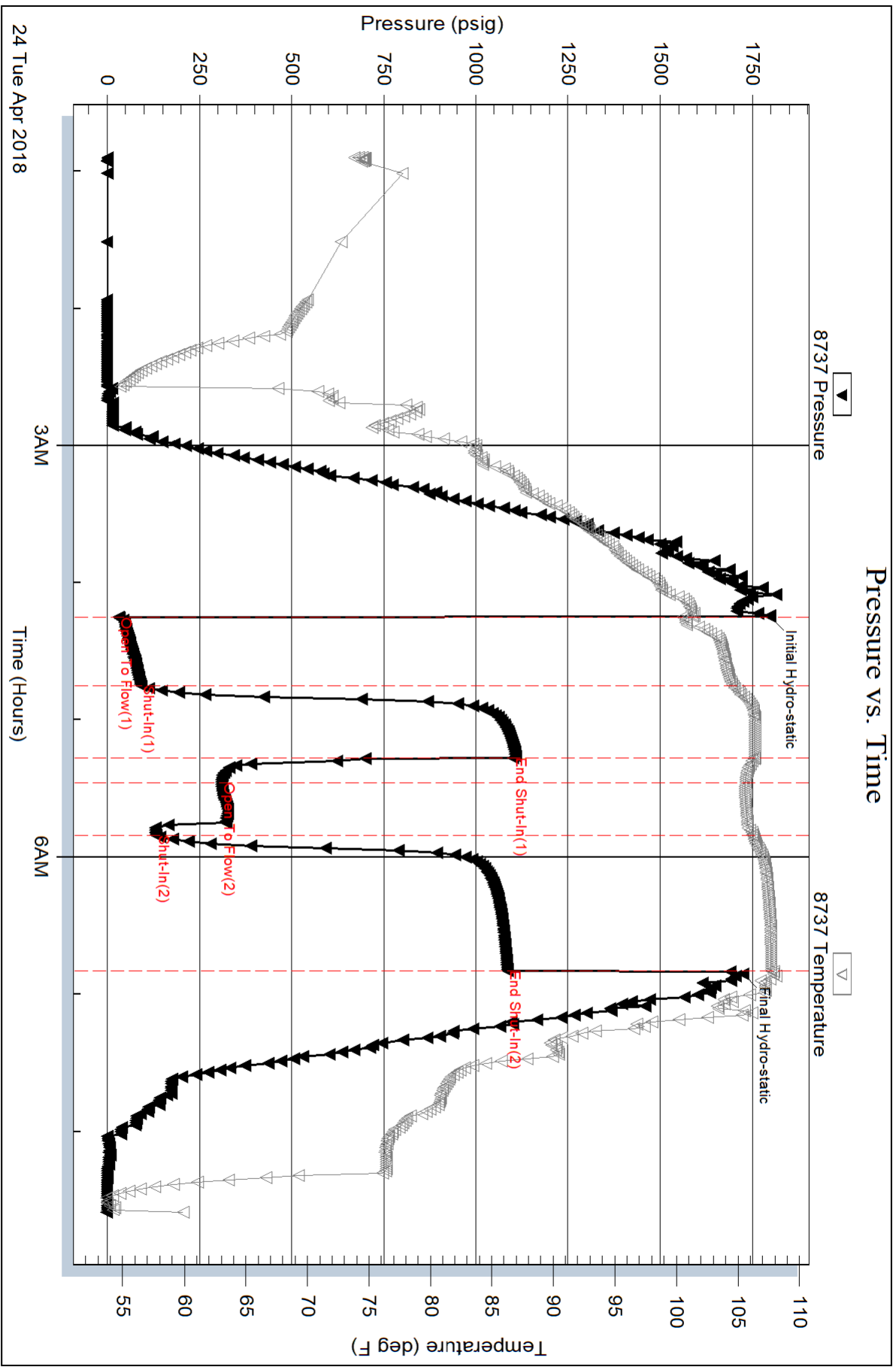
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM



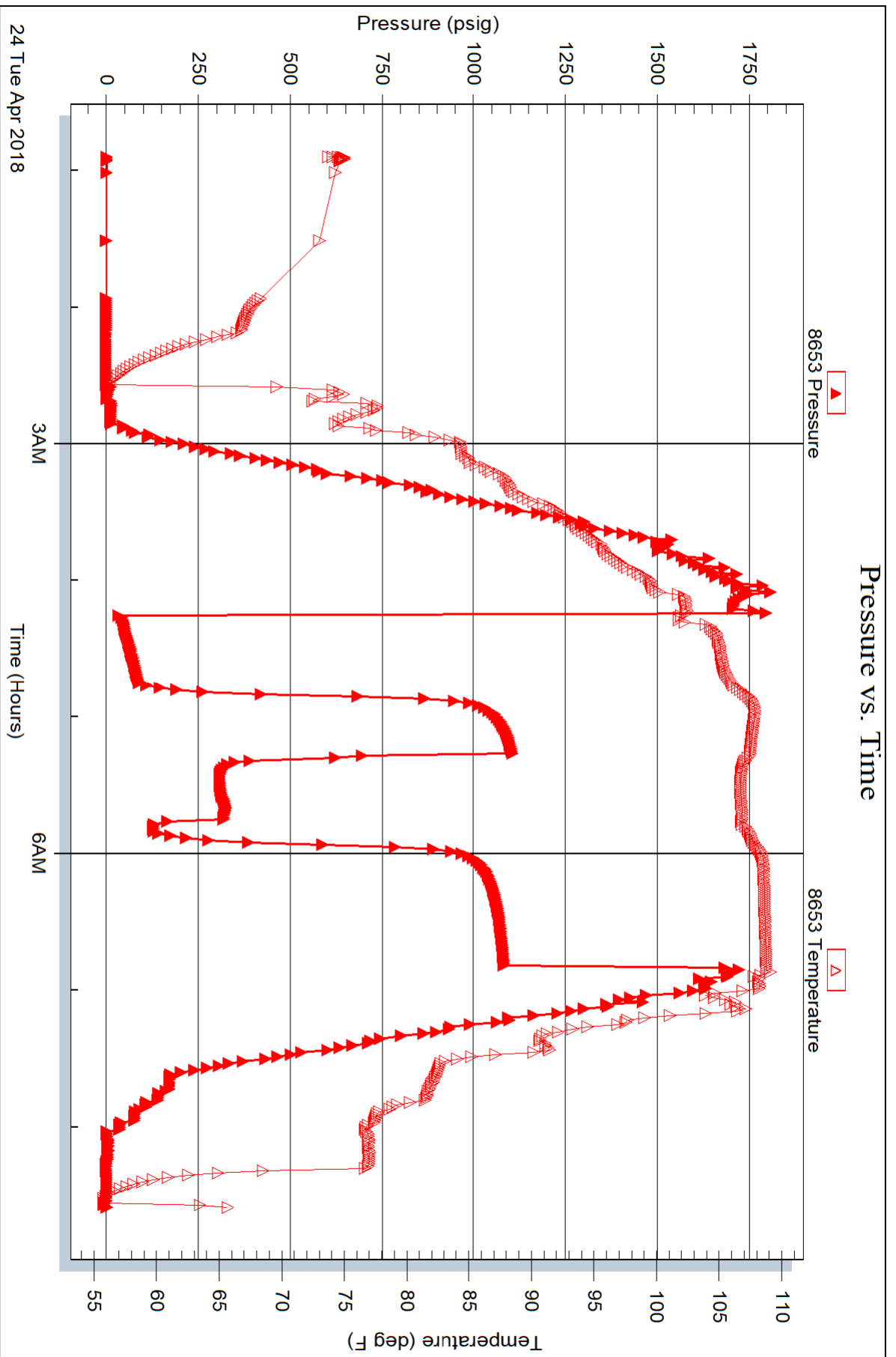
Serial #: 8653

Inside

American Oil LLC

Nordman #1-19

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63773

Well Name & No. Neidman #1-19 Test No. 1 Date 4-24-18
 Company American Oil LLC Elevation 1931 KB 1923 GL
 Address 1200 Main Suite 410 Hays Ks 67601
 Co. Rep / Geo. Austin Klaus Rig Discovery 4
 Location: Sec. 19 Twp 18^s Rge. 14^w Co. Barton State Ks

Interval Tested 3384-3466 Zone Tested LLC H-1C
 Anchor Length 82 Drill Pipe Run 3329 Mud Wt. 9.5
 Top Packer Depth 3379 Drill Collars Run 31' Vis 55
 Bottom Packer Depth 3384 Wt. Pipe Run — WL 12.0
 Total Depth 3466 Chlorides 28000 ppm System LCM 1#

Blow Description IF - Strong blow, BOB in 6"
ISI - No blow
FF - Strong blow, BOB in 12"
FBI - Fair blow, BOB in 40"

Rec	Feet of	%gas	%oil	%water	%mud
<u>170</u>	<u>Caassy highly oil cut mud</u>	<u>20</u>	<u>35</u>	<u>—</u>	<u>45</u>
<u>80</u>	<u>Clean Oil</u>	<u>100</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>945' of GEP</u>	<u>100</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 250 BHT 107° Gravity 24 API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 1796 Test 1050 T-On Location 12:13
 (B) First Initial Flow 30 Jars 250 T-Started 12:54
 (C) First Final Flow 91 Safety Joint 75 T-Open 04:15
 (D) Initial Shut-In 1101 Circ Sub — T-Pulled 06:45
 (E) Second Initial Flow 309 Hourly Standby — T-Out 08:35
 (F) Second Final Flow 132 Mileage 126 28rt 28 Comments loaded tools 12:45 4/24
 (G) Final Shut-In 1065 Sampler —
 (H) Final Hydrostatic 1725 Straddle —
 Shale Packer —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Packer —
 Extra Copies —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1431 MP/DST Disc't —

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 60

Approved By _____ Our Representative Steve Beckwith / Sponsor S.
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