



DRILL STEM TEST REPORT

Prepared For: **H&C Oil Operating Inc**

PO Box 86
Plainville KS 67663-0086

ATTN: Charles Ramsay

Herl #27-2

27-13s-26w Gove,KS

Start Date: 2013.02.04 @ 12:15:50

End Date: 2013.02.04 @ 19:02:44

Job Ticket #: 51645 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.02.07 @ 10:09:15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H&C Oil Operating Inc
 PO Box 86
 Plainville KS 67663-0086
 ATTN: Charles Ramsay

27-13s-26w Gove,KS
Herl #27-2
 Job Ticket: 51645 **DST#: 1**
 Test Start: 2013.02.04 @ 12:15:50

Tool Information

Drill Pipe:	Length: 3637.00 ft	Diameter: 3.80 inches	Volume: 51.02 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 52.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3885.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3865.00	
Shut In Tool	5.00			3870.00	
Hydraulic tool	5.00			3875.00	
Packer	5.00			3880.00	21.00 Bottom Of Top Packer
Packer	5.00			3885.00	
Stubb	1.00			3886.00	
Recorder	0.00	8369	Inside	3886.00	
Recorder	0.00	8700	Outside	3886.00	
Perforations	26.00			3912.00	
Bullnose	3.00			3915.00	30.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H&C Oil Operating Inc
PO Box 86
Plainville KS 67663-0086
ATTN: Charles Ramsay

27-13s-26w Gove,KS
Herl #27-2
Job Ticket: 51645 **DST#: 1**
Test Start: 2013.02.04 @ 12:15:50

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: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

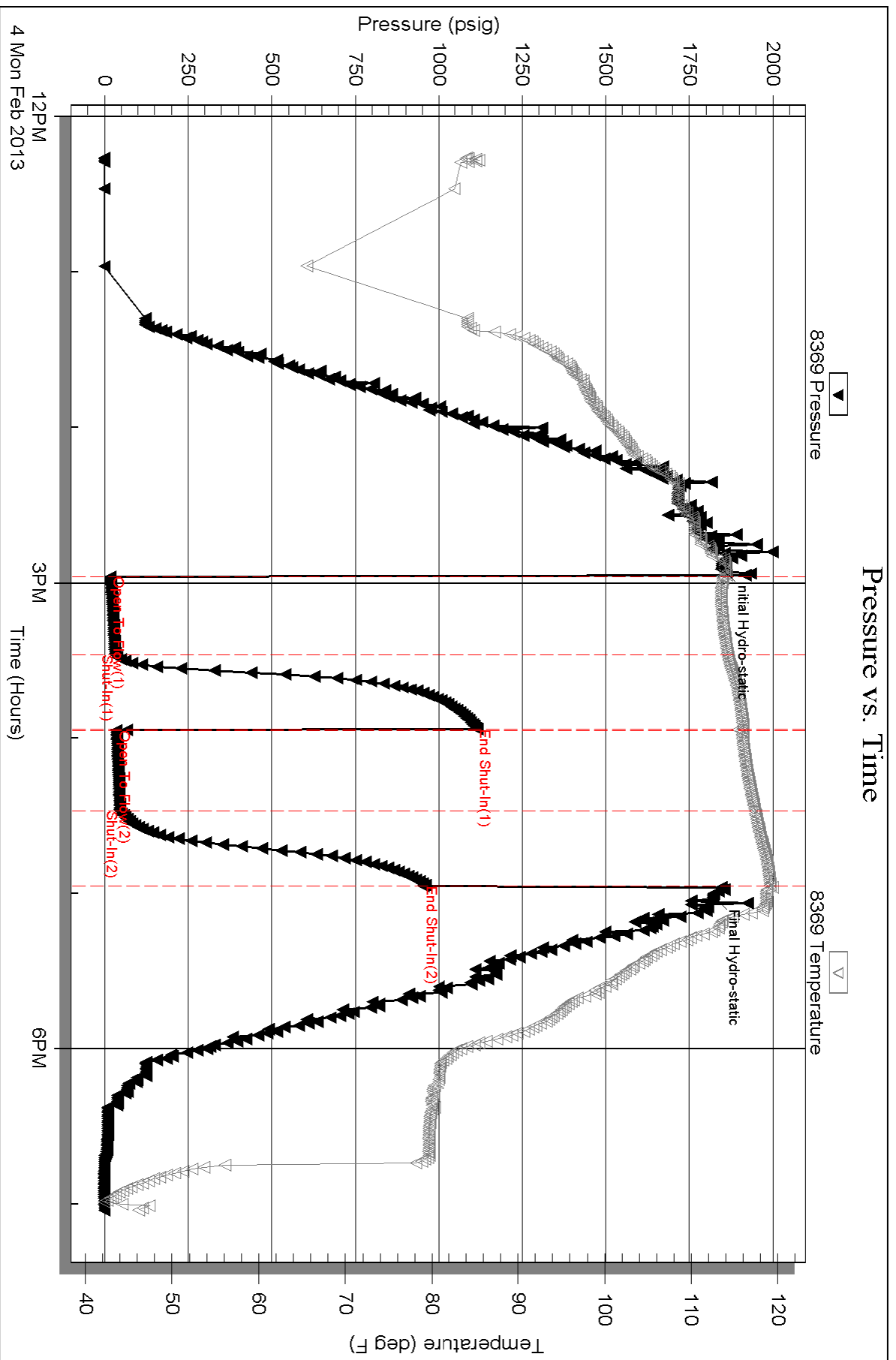
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OCM 10%O90%M	0.148
35.00	VHOCM 45%O55%M	0.172

Total Length: 65.00 ft Total Volume: 0.320 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Pressure vs. Time

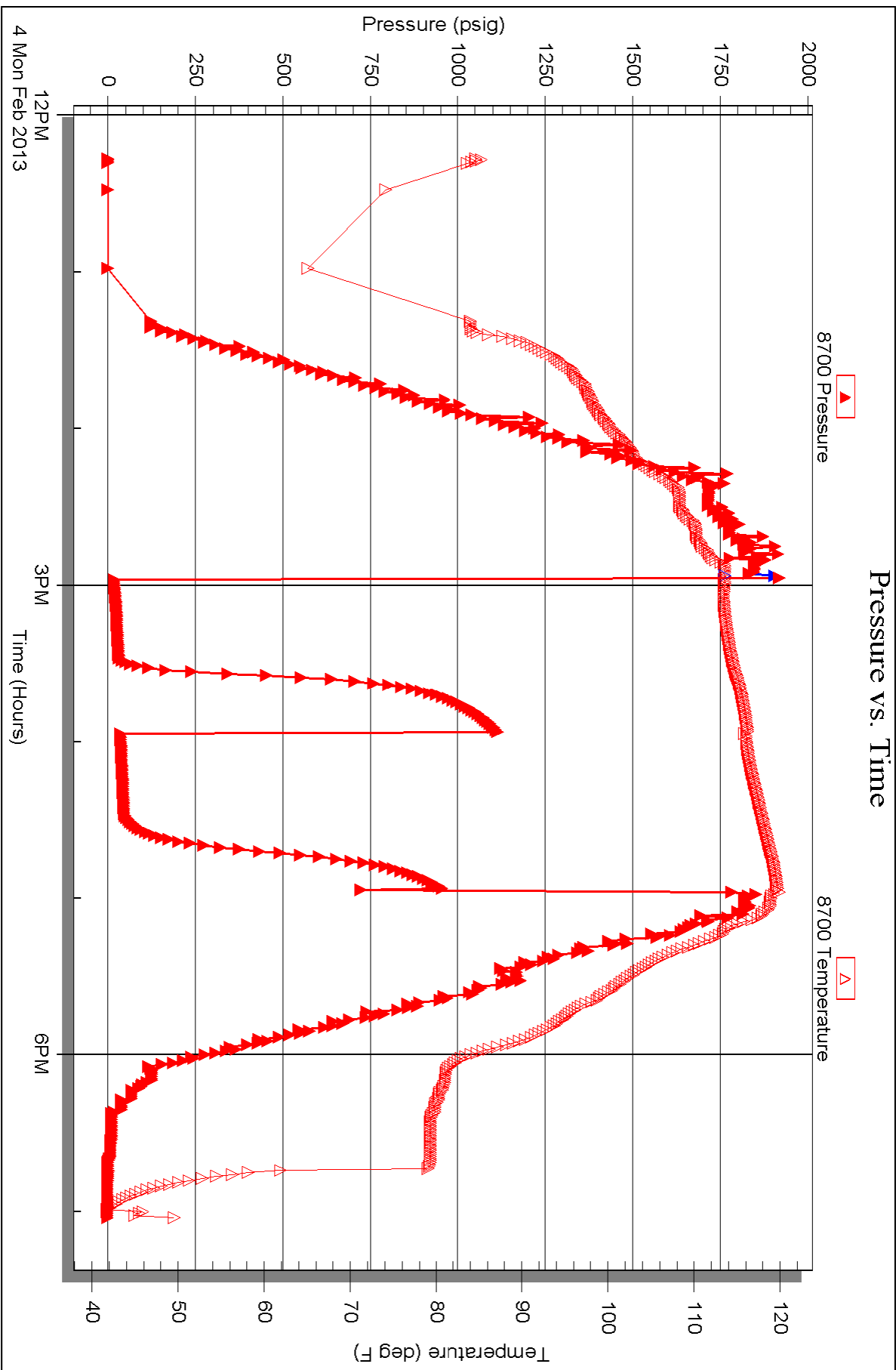


Serial #: 8700

Outside H&C Oil Operating Inc

Her1 #27-2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51645

Printed: 2013.02.07 @ 10:09:18



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51645

Well Name & No. Herl # 27-2 Test No. 1 Date 2-4-13
 Company H+C OIL OPERATING, Inc Elevation 2392 KB 2381 GL
 Address PO Box 86 Plainville, Ks 67663-0086
 Co. Rep / Geo. MARC Downing Rig H2 drlg rig 2
 Location: Sec. 27 Twp. 13^s Rge. 26^w Co. Gove State Ks

Interval Tested 3885-3915 Zone Tested LKC J-K
 Anchor Length 30 Drill Pipe Run 3637 Mud Wt. 9.2
 Top Packer Depth 3880 Drill Collars Run 240 Vis 6.8
 Bottom Packer Depth 3885 Wt. Pipe Run - WL 8.8
 Total Depth 3915 Chlorides 2000 ppm System LCM 1 1/2 #

Blow Description TFP - WEAK Blow thru-out 1/4" Blow
ISIP - NO Blow
FFP - NO Blow
FSTP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>VHOCM</u>	<u>45</u>		<u>55</u>	
<u>30</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	

Rec Total 65 BHT 119 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1846 Test 1150 T-On Location 1045
 (B) First Initial Flow 17 Jars - T-Started 1215
 (C) First Final Flow 32 Safety Joint - T-Open 1455
 (D) Initial Shut-In 1115 Circ Sub - T-Pulled 1655
 (E) Second Initial Flow 35 Hourly Standby - T-Out 1902

(F) Second Final Flow 46 Mileage ~~122 RT~~ 88rt 136.40 Comments Motel - 2 days
 (G) Final Shut-In 952 Sampler - Released 8am 2-6-13
 (H) Final Hydrostatic 1821 Straddle - Ruined Shale Packer -

Initial Open 30 Shale Packer - Ruined Packer -
 Initial Shut-In 30 Extra Packer - Extra Copies -
 Final Flow 30 Extra Recorder - Sub Total 800
 Final Shut-In 30 Day Standby 1d 13h Total 2086.40
 Accessibility - MP/DST Disc't -
 Sub Total 1286.40

Approved By _____ Our Representative RAY SCHWAGER *Thank you*

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.