



DRILL STEM TEST REPORT

Prepared For: **Palmer Oil Inc.**

PO Box 399
Garden City KS. 67846

ATTN: Kevin Timson

Brookover #4-5

4-25s-32w Finney,KS.

Start Date: 2014.05.10 @ 15:54:00

End Date: 2014.05.10 @ 23:10:09

Job Ticket #: 57207 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.05.15 @ 11:32:59

Palmer Oil Inc. 4-25s-32w Finney,KS. Brookover #4-5 DST # 1 Morrow / St. Louis 2014.05.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palmer Oil Inc.
PO Box 399
Garden City KS. 67846
ATTN: Kevin Timson

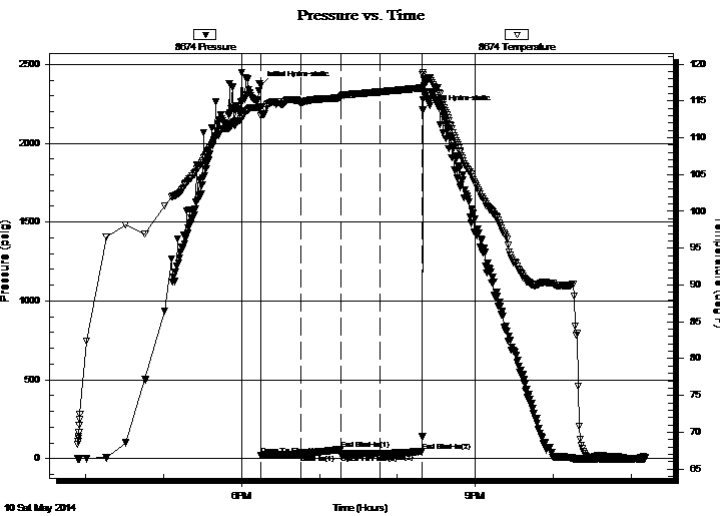
4-25s-32w Finney,KS.
Brookover #4-5
Job Ticket: 57207 **DST#: 1**
Test Start: 2014.05.10 @ 15:54:00

GENERAL INFORMATION:

Formation: **Morrow / St. Louis**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:14:55
Time Test Ended: 23:10:09
Test Type: Conventional Bottom Hole (Initial)
Tester: Will MacLean
Unit No: 72
Interval: **4774.00 ft (KB) To 4874.00 ft (KB) (TVD)**
Reference Elevations: 2867.00 ft (KB)
Total Depth: 4874.00 ft (KB) (TVD) 2854.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 13.00 ft

Serial #: 8674 Inside
Press@RunDepth: 32.44 psig @ 4775.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.10 End Date: 2014.05.10 Last Calib.: 2014.05.10
Start Time: 15:54:00 End Time: 23:10:09 Time On Btm: 2014.05.10 @ 18:14:40
Time Off Btm: 2014.05.10 @ 20:19:24

TEST COMMENT: IF- Weak Surface Blow Built to 3/4"
IS- No Blow
FF- No Blow
FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2367.47	114.12	Initial Hydro-static
1	21.21	113.03	Open To Flow (1)
31	28.52	114.76	Shut-In(1)
62	58.23	115.42	End Shut-In(1)
63	29.29	115.59	Open To Flow (2)
92	32.44	116.21	Shut-In(2)
125	45.32	116.75	End Shut-In(2)
125	2210.47	118.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 2%oil 98%m	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palmer Oil Inc.
PO Box 399
Garden City KS. 67846
ATTN: Kevin Timson

4-25s-32w Finney,KS.
Brookover #4-5
Job Ticket: 57207 **DST#: 1**
Test Start: 2014.05.10 @ 15:54:00

Tool Information

Drill Pipe:	Length: 4584.00 ft	Diameter: 3.80 inches	Volume: 64.30 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 183.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	8000.00 lb
			<u>Total Volume: 65.20 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4774.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	127.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			4748.00	
Shut In Tool	5.00			4753.00	
Hydraulic tool	5.00			4758.00	
Jars	5.00			4763.00	
Safety Joint	2.00			4765.00	
Packer	5.00			4770.00	27.00 Bottom Of Top Packer
Packer	4.00			4774.00	
Stubb	1.00			4775.00	
Recorder	0.00	8355	Outside	4775.00	
Recorder	0.00	8674	Inside	4775.00	
Perforations	29.00			4804.00	
Change Over Sub	1.00			4805.00	
Drill Pipe	63.00			4868.00	
Change Over Sub	1.00			4869.00	
Bullnose	5.00			4874.00	100.00 Bottom Packers & Anchor

Total Tool Length: 127.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil Inc.
PO Box 399
Garden City KS. 67846
ATTN: Kevin Timson

4-25s-32w Finney,KS.
Brookover #4-5
Job Ticket: 57207 **DST#: 1**
Test Start: 2014.05.10 @ 15:54:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.95 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 2%oil 98%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:

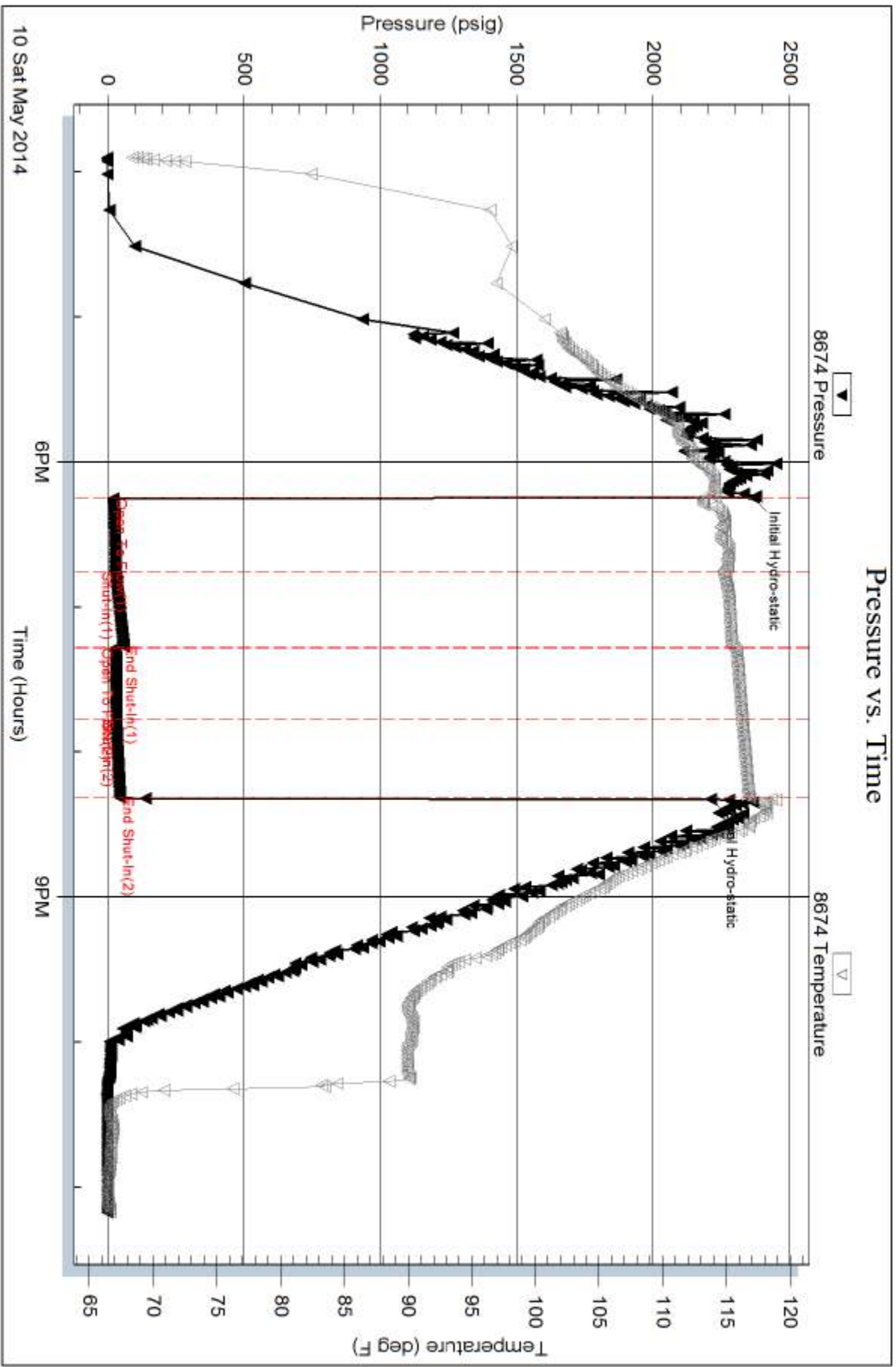
Serial #: 8674

Inside

Palmer Oil Inc.

Brookover #4-5

DST Test Number: 1

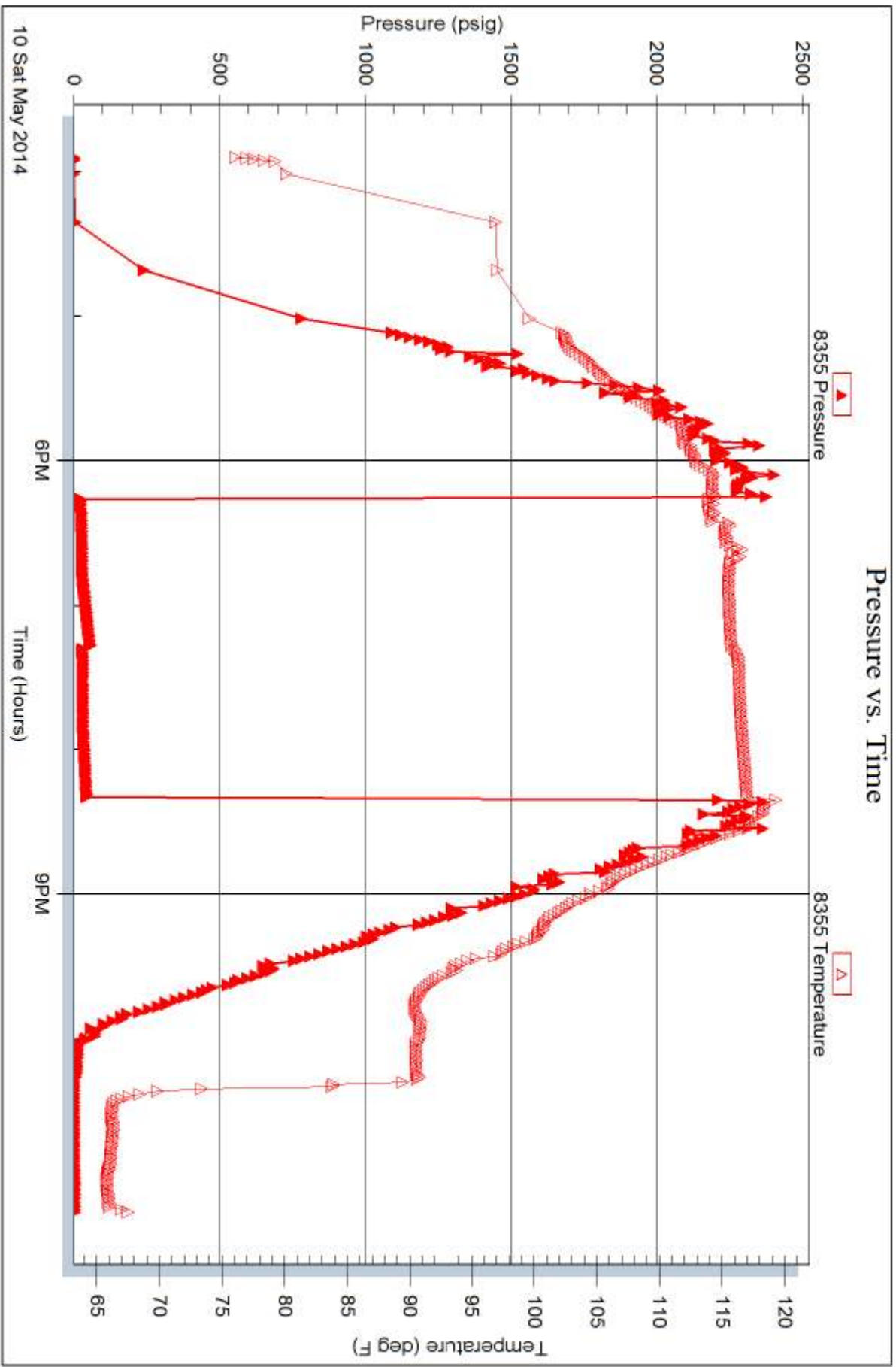


Serial #: 8355

Outside Palmer Oil Inc.

Brookover #4-5

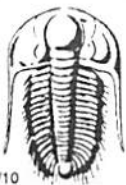
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57207

Printed: 2014.05.15 @ 11:33:01



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57207

Well Name & No. Brookover #4-5 Test No. DST #1 Date 5-10-14
 Company Palmer Oil Inc Elevation 2867 KB 2854 GL
 Address P.O. Box 399 Garden City KS 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #9
 Location: Sec. 4 Twp. 25S Rge. 32W Co. Finney State KS

Interval Tested 4774-4874 Zone Tested Morrow / St. Louis
 Anchor Length 100 Drill Pipe Run 4584 Mud Wt. 9.3
 Top Packer Depth 4770 Drill Collars Run 183 Vis 50
 Bottom Packer Depth 4774 Wt. Pipe Run 0 WL 8.0
 Total Depth 4874 Chlorides 2300 ppm System LCM 216

Blow Description IF- Work Surface Blow Built to 34"
ISI- No Blow
FF- No Blow
FST- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>OCM</u>		<u>2</u>		<u>98</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 119 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2367 Test 1250 T-On Location 15:18
 (B) First Initial Flow 21 Jars 250 T-Started 15:54
 (C) First Final Flow 28 Safety Joint 75 T-Open 18:14
 (D) Initial Shut-In 58 Circ Sub N/C T-Pulled 20:19
 (E) Second Initial Flow 29 Hourly Standby _____ T-Out 23:10
 (F) Second Final Flow 32 Mileage 98 R/T 151.90 Comments _____
 (G) Final Shut-In 45 Sampler _____
 (H) Final Hydrostatic 2210 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 30 Day Standby _____ Total 1726.90
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 1726.90

Approved By _____ Our Representative Kevin Timson

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.