



DRILL STEM TEST REPORT

Prepared For: **Palmer Oil Inc**
PO Box 399
Garden City KS 67846

ATTN: Cecil Obrate/ Jeff L

Cynthia #35-7

35-31s-39w Stevens,KS

Start Date: 2013.10.09 @ 06:32:56

End Date: 2013.10.09 @ 17:41:41

Job Ticket #: 52438 DST #: 1

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

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palmer Oil Inc
 PO Box 399
 Garden City KS 67846
 ATTN: Cecil Obrate/ Jeff L

35-31s-39w Stevens,KS
Cynthia #35-7
 Job Ticket: 52438 **DST#: 1**
 Test Start: 2013.10.09 @ 06:32:56

GENERAL INFORMATION:

Formation: **ST Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:44:26
 Time Test Ended: 17:41:41
 Interval: **6025.00 ft (KB) To 6110.00 ft (KB) (TVD)**
 Total Depth: 6110.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Staats
 Unit No: #47
 Reference Elevations: 3192.00 ft (KB)
 3180.00 ft (CF)
 KB to GR/CF: 12.00 ft

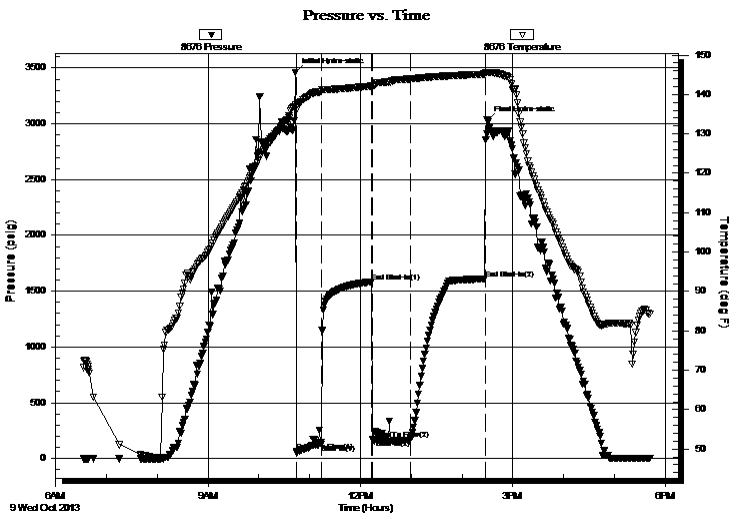
Serial #: 8676

Outside

Press @ RunDepth: 171.06 psig @ 6026.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.10.09 End Date: 2013.10.09 Last Calib.: 2013.10.09
 Start Time: 06:33:01 End Time: 17:41:41 Time On Btm: 2013.10.09 @ 10:43:11
 Time Off Btm: 2013.10.09 @ 14:29:26

TEST COMMENT: IF: No blow Chased tool 10'
 IS: No blow back
 FF: Waek blow 3"
 FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3460.68	137.28	Initial Hydro-static
2	65.85	136.01	Open To Flow (1)
31	126.67	140.69	Shut-In(1)
91	1584.72	142.10	End Shut-In(1)
92	173.74	142.10	Open To Flow (2)
136	171.06	143.95	Shut-In(2)
224	1610.67	145.16	End Shut-In(2)
227	3031.31	145.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
195.00	W,M 2%w ater 98% mud	1.02

Gas Rates

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



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TOOL DIAGRAM

Palmer Oil Inc

35-31s-39w Stevens,KS

PO Box 399
Garden City KS 67846

Cynthia #35-7

Job Ticket: 52438

DST#: 1

ATTN: Cecil Obrate/ Jeff L

Test Start: 2013.10.09 @ 06:32:56

Tool Information

Drill Pipe:	Length: 5840.00 ft	Diameter: 3.80 inches	Volume: 81.92 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: 188.00 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 135000.0 lb
			<u>Total Volume: 82.84 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	6025.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	114.00 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			5997.00	
Shut In Tool	5.00			6002.00	
Hydraulic tool	5.00			6007.00	
Jars	5.00			6012.00	
Safety Joint	3.00			6015.00	
Packer	5.00			6020.00	29.00 Bottom Of Top Packer
Packer	5.00			6025.00	
Stubb	1.00			6026.00	
Recorder	0.00	8676	Outside	6026.00	
Recorder	0.00	6773	Inside	6026.00	
Change Over Sub	0.50			6026.50	
Drill Pipe	62.00			6088.50	
Change Over Sub	0.50			6089.00	
Perforations	18.00			6107.00	
Bullnose	3.00			6110.00	85.00 Bottom Packers & Anchor

Total Tool Length: 114.00



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FLUID SUMMARY

Palmer Oil Inc

35-31s-39w Stevens,KS

PO Box 399
Garden City KS 67846

Cynthia #35-7

Job Ticket: 52438

DST#: 1

ATTN: Cecil Obrate/ Jeff L

Test Start: 2013.10.09 @ 06:32:56

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: ppm

Viscosity: 50.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 2300.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
195.00	W,M 2%w ater 98% mud	1.023

Total Length: 195.00 ft Total Volume: 1.023 bbl

Num Fluid Samples: 0

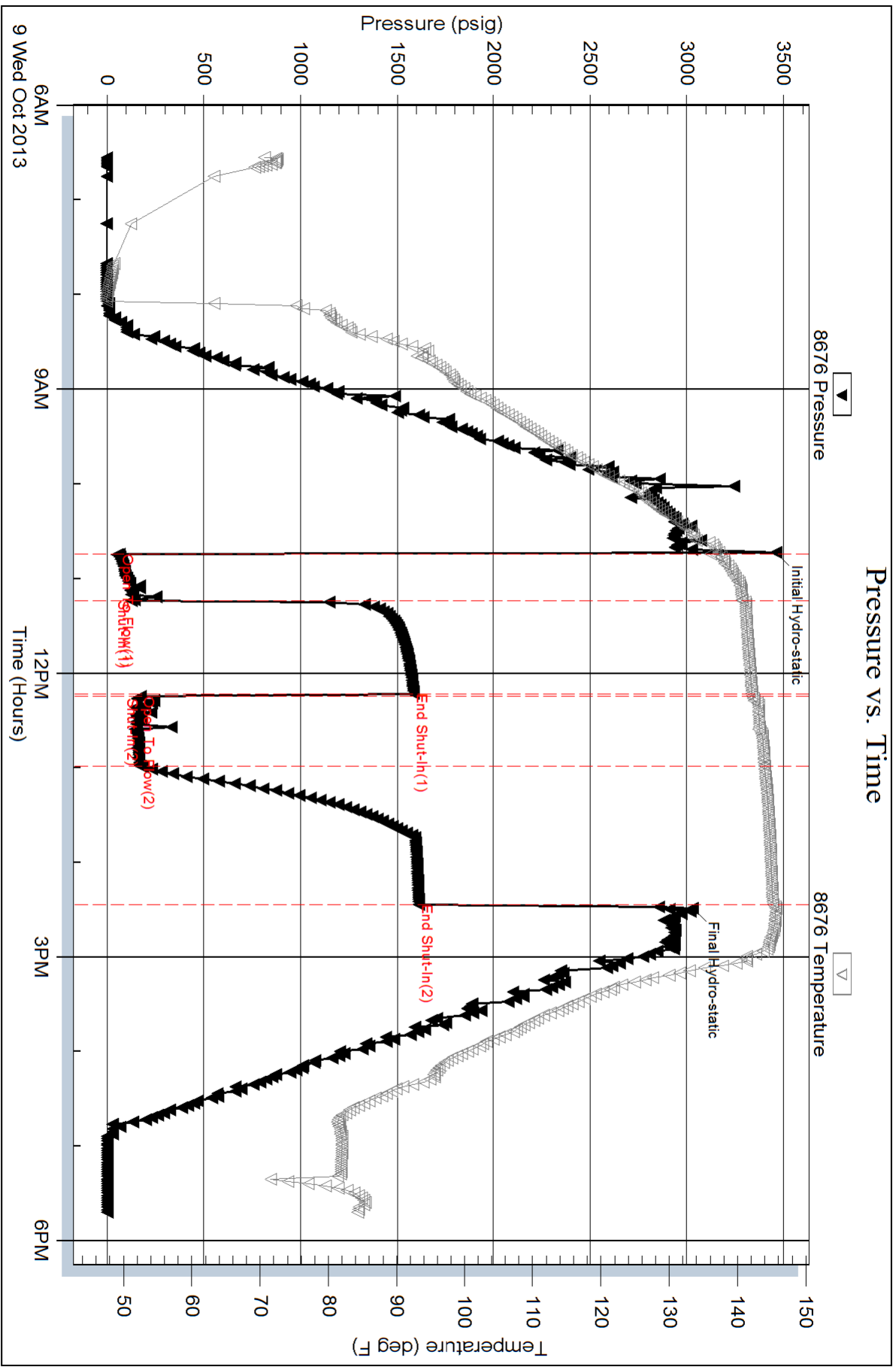
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



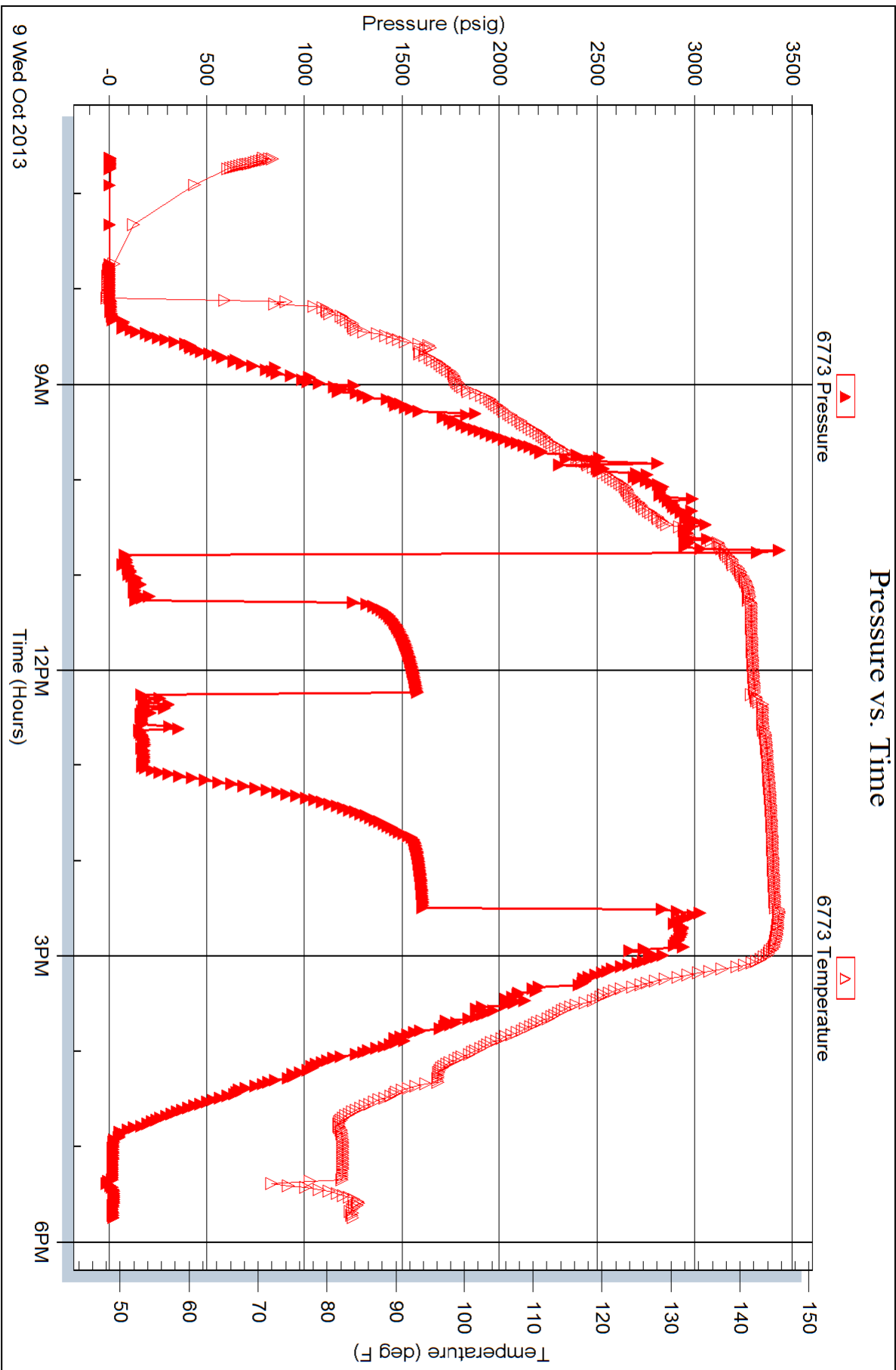
Serial #: 6773

Inside

Palmer Oil Inc

Cynthia #35-7

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52438

Well Name & No. Cynthia #35-7 Test No. 1 Date 10-9-13
 Company Palmer Oil INC Elevation 3192 KB 3180 GL
 Address 3118 N Comming Rd Garden City KS 67846
 Co. Rep / Geo. Cecil Obrate / Jeff Lawler Rig Duke #9
 Location: Sec. 35 Twp. 31 Rge. 39 Co. Stevens State KS

Interval Tested 6025 - 6110 Zone Tested ST LOUIS
 Anchor Length 85' Drill Pipe Run 5840 Mud Wt. 9.3
 Top Packer Depth 6020 Drill Collars Run 188 Vis 50
 Bottom Packer Depth 6025 Wt. Pipe Run 0 WL 8.4
 Total Depth 6110 Chlorides 2,300 ppm System LCM 4#

Blow Description IF: NO blow Chased tool 10'
ISI: NO blow back
FF: weak blow 3"
FSD: NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>195'</u>	Feet of <u>W, M</u>	%gas	%oil	<u>2</u> %water	<u>98</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 195' BHT 140 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>3460</u>	<input checked="" type="checkbox"/> Test <u>1450</u>	T-On Location <u>6:15</u>
(B) First Initial Flow <u>65</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:32</u>
(C) First Final Flow <u>126</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>10:44</u>
(D) Initial Shut-In <u>1584</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>14:30</u>
(E) Second Initial Flow <u>173</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:40</u>
(F) Second Final Flow <u>171</u>	<input checked="" type="checkbox"/> Mileage <u>340 miles</u> 230rt 356.50	Comments
(G) Final Shut-In <u>1610</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>3031</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 90

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 2131.50

Sub Total 2131.50

Approved By _____ Our Representative Chris

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