



## DRILL STEM TEST REPORT

Prepared For: **Palmer Oil Co**

PO Box 399  
Garden City, KS 67846

ATTN: Luke Thompson

### **Hatcher #12-1**

#### **12-34S-33W Seward,KS**

Start Date: 2015.06.11 @ 11:06:41

End Date: 2015.06.11 @ 16:43:26

Job Ticket #: 59769                      DST #: 1

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

Printed: 2015.06.19 @ 11:19:22



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palmer Oil Co  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

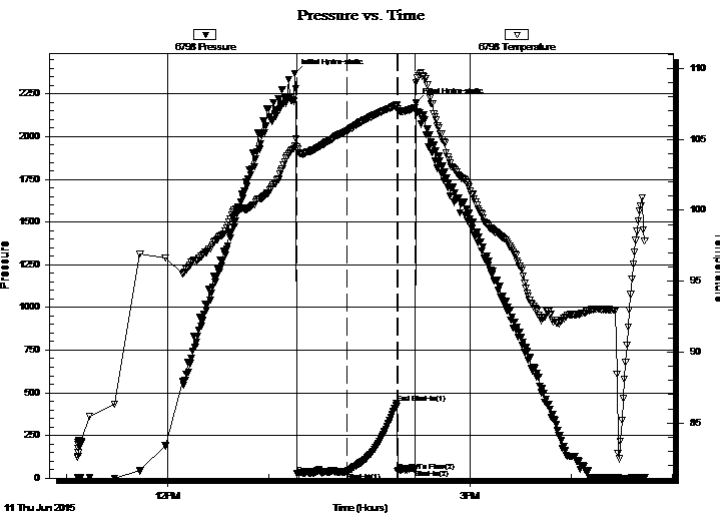
**12-34S-33W Seward,KS**  
**Hatcher #12-1**  
Job Ticket: 59769      **DST#: 1**  
Test Start: 2015.06.11 @ 11:06:41

## GENERAL INFORMATION:

Formation: **Toronto**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 13:16:56  
Time Test Ended: 16:43:26  
Interval: **4430.00 ft (KB) To 4490.00 ft (KB) (TVD)**  
Total Depth: 4490.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Reference Elevations: 2858.00 ft (KB)  
2847.00 ft (CF)  
KB to GR/CF: 11.00 ft  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Leal Cason  
Unit No: 74

**Serial #: 6798      Inside**  
Press@RunDepth: 35.19 psig @ 4431.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.06.11      End Date: 2015.06.11      Last Calib.: 2015.06.11  
Start Time: 11:06:42      End Time: 16:43:26      Time On Btm: 2015.06.11 @ 13:15:41  
Time Off Btm: 2015.06.11 @ 14:27:41

TEST COMMENT: IF: Weak Surface Blow  
IS: No Blow Back  
FF: No Blow / Pulled @ 10 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2371.44	104.52	Initial Hydro-static
2	25.00	104.45	Open To Flow (1)
31	35.19	105.59	Shut-In(1)
61	438.20	107.41	End Shut-In(1)
61	41.77	107.16	Open To Flow (2)
72	54.25	107.23	Shut-In(2)
72	2196.76	108.99	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palmer Oil Co  
 PO Box 399  
 Garden City, KS 67846  
 ATTN: Luke Thompson

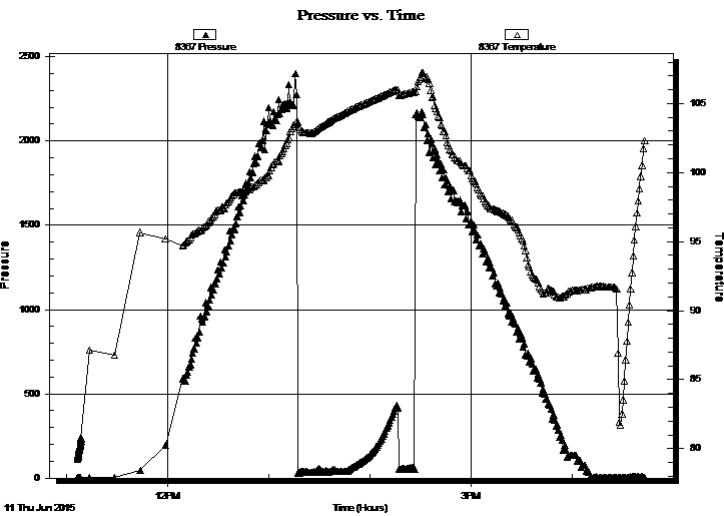
**12-34S-33W Seward,KS**  
**Hatcher #12-1**  
 Job Ticket: 59769 **DST#: 1**  
 Test Start: 2015.06.11 @ 11:06:41

## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:16:56  
 Time Test Ended: 16:43:26  
 Interval: **4430.00 ft (KB) To 4490.00 ft (KB) (TVD)**  
 Total Depth: 4490.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 2858.00 ft (KB)  
 2847.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8367 Outside**  
 Press@RunDepth: psig @ 4431.00 ft (KB)  
 Start Date: 2015.06.11 End Date: 2015.06.11  
 Start Time: 11:06:42 End Time: 16:43:11  
 Capacity: 8000.00 psig  
 Last Calib.: 2015.06.11  
 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Weak Surface Blow  
 IS: No Blow Back  
 FF: No Blow / Pulled @ 10 minutes



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palmer Oil Co  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

**12-34S-33W Seward,KS**  
**Hatcher #12-1**  
Job Ticket: 59769      **DST#: 1**  
Test Start: 2015.06.11 @ 11:06:41

**Tool Information**

Drill Pipe:	Length: 4142.00 ft	Diameter: 3.80 inches	Volume: 58.10 bbl	Tool Weight: 2100.00 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: 270.00 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.43 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4430.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			4409.00	
Hydraulic tool	5.00			4414.00	
Jars	5.00			4419.00	
Safety Joint	2.00			4421.00	
Packer	5.00			4426.00	26.00      Bottom Of Top Packer
Packer	4.00			4430.00	
Stubb	1.00			4431.00	
Recorder	0.00	6798	Inside	4431.00	
Recorder	0.00	8367	Outside	4431.00	
Perforations	2.00			4433.00	
Change Over Sub	1.00			4434.00	
Drill Pipe	32.00			4466.00	
Change Over Sub	1.00			4467.00	
Perforations	20.00			4487.00	
Bullnose	3.00			4490.00	60.00      Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palmer Oil Co

**12-34S-33W Seward,KS**

PO Box 399  
Garden City, KS 67846

**Hatcher #12-1**

Job Ticket: 59769

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2015.06.11 @ 11:06:41

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

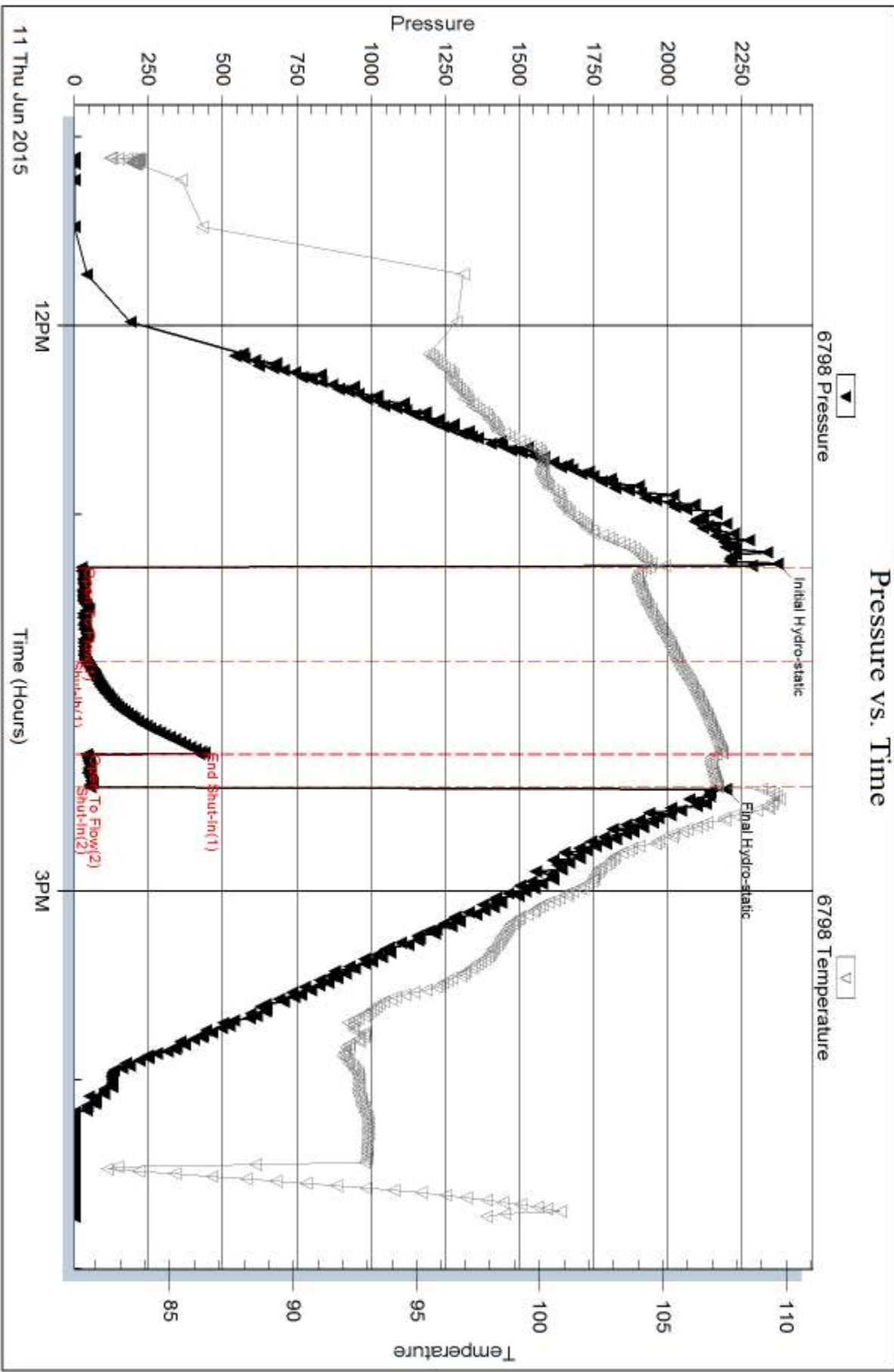
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

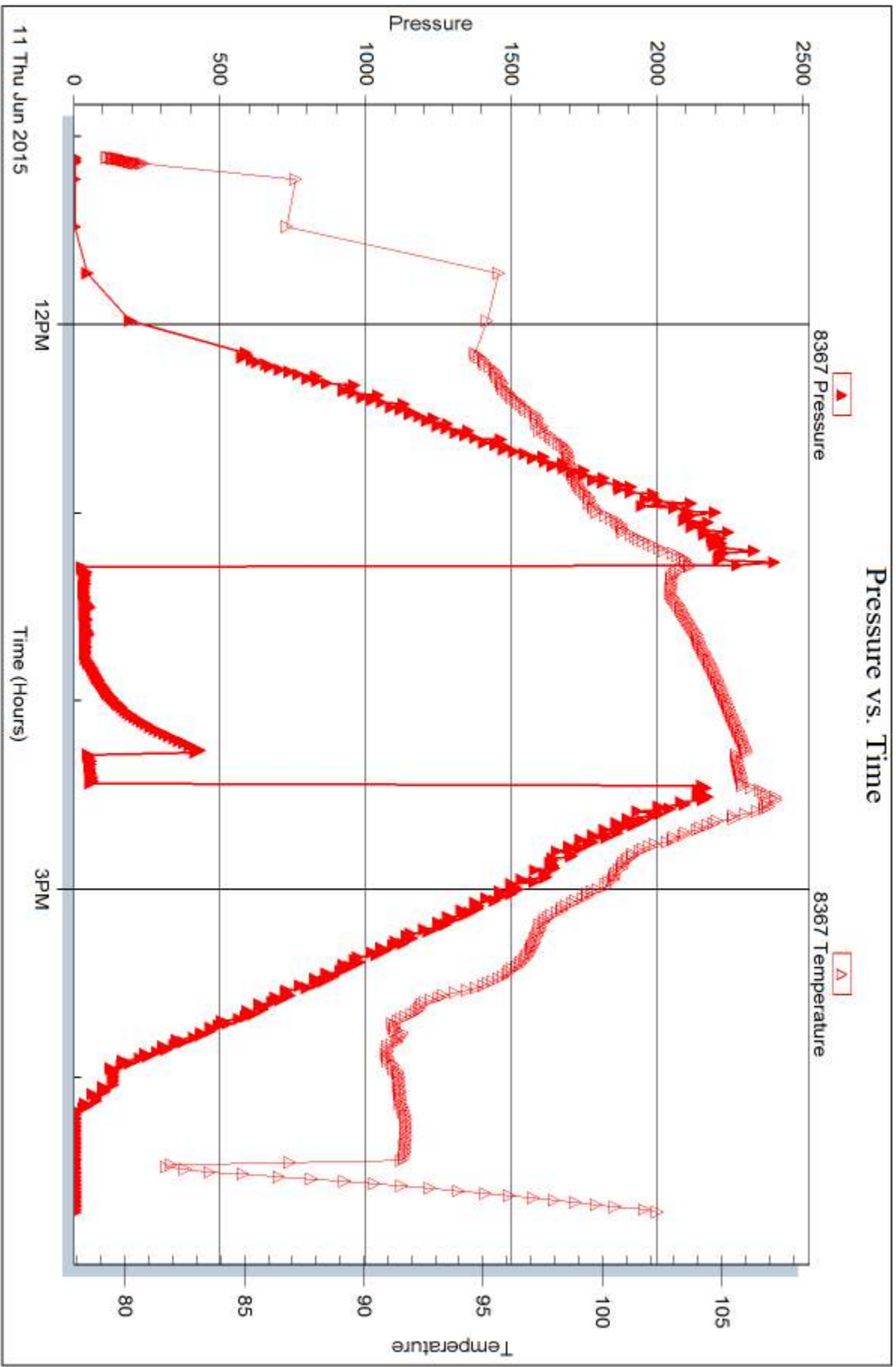


Serial #: 8367

Outside Palmer Oil Co

Hatcher #12-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59769

Printed: 2015.06.19 @ 11:19:24



## DRILL STEM TEST REPORT

Prepared For: **Palmer Oil Co**

PO Box 399  
Garden City, KS 67846

ATTN: Luke Thompson

### **Hatcher #12-1**

#### **12-34S-33W Seward,KS**

Start Date: 2015.06.18 @ 17:11:53

End Date: 2015.06.18 @ 23:38:53

Job Ticket #: 59770                      DST #: 2

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

Printed: 2015.06.19 @ 11:15:49





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palmer Oil Co  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

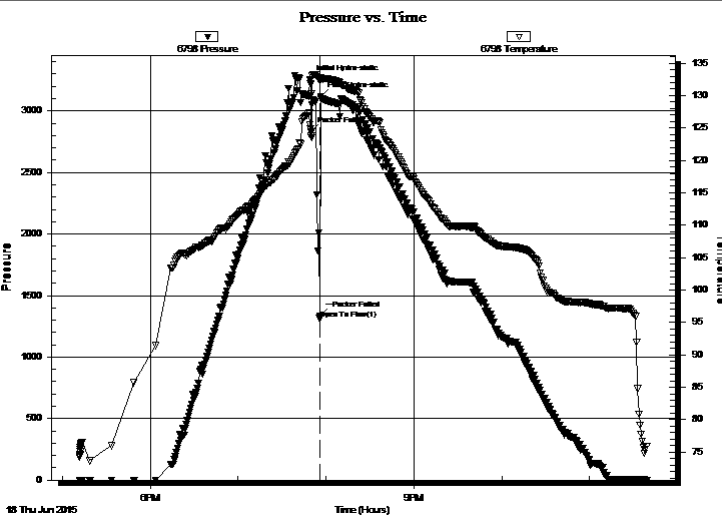
**12-34S-33W Seward,KS**  
**Hatcher #12-1**  
Job Ticket: 59770      **DST#: 2**  
Test Start: 2015.06.18 @ 17:11:53

## GENERAL INFORMATION:

Formation: **Chester**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 19:55:38  
Time Test Ended: 23:38:53  
Interval: **6210.00 ft (KB) To 6410.00 ft (KB) (TVD)**  
Total Depth: 6410.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 2858.00 ft (KB)  
2847.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6798      Inside**  
Press@RunDepth:                      psig @ 6211.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.06.18      End Date: 2015.06.18      Last Calib.: 2015.06.19  
Start Time: 17:11:54      End Time: 23:38:53      Time On Btm: 2015.06.18 @ 19:49:08  
Time Off Btm: 2015.06.18 @ 19:56:38

TEST COMMENT: Packer Failure, Tried To Reset, Failed, Pulled Test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3251.67	125.53	Initial Hydro-static
1	2830.21	123.74	Packer Failed
7	1312.89	132.38	Open To Flow (1)
7	1334.03	132.29	--Packer Failed
8	3118.38	132.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1365.00	Mud	16.69

\* Recovery from multiple tests

## Gas Rates

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



# DRILL STEM TEST REPORT

Palmer Oil Co  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

**12-34S-33W Seward,KS**

**Hatcher #12-1**

Job Ticket: 59770 **DST#: 2**

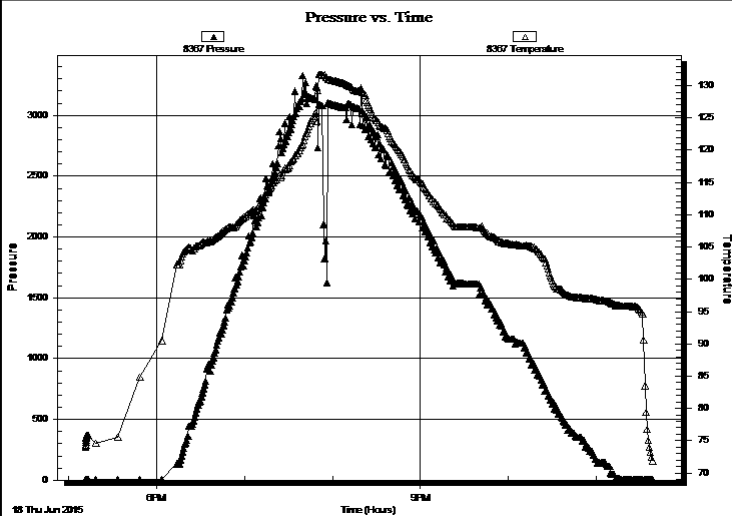
Test Start: 2015.06.18 @ 17:11:53

## GENERAL INFORMATION:

Formation: **Chester**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 19:55:38 Tester: Leal Cason  
Time Test Ended: 23:38:53 Unit No: 74  
Interval: **6210.00 ft (KB) To 6410.00 ft (KB) (TVD)** Reference Elevations: 2858.00 ft (KB)  
Total Depth: 6410.00 ft (KB) (TVD) 2847.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

**Serial #: 8367 Outside**  
Press@RunDepth: psig @ 6211.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.06.18 End Date: 2015.06.18 Last Calib.: 2015.06.19  
Start Time: 17:11:54 End Time: 23:38:38 Time On Btm:  
Time Off Btm:

TEST COMMENT: Packer Failure, Tried To Reset, Failed, Pulled Test



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
1365.00	Mud	16.69

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palmer Oil Co  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

**12-34S-33W Seward,KS**  
**Hatcher #12-1**  
Job Ticket: 59770      **DST#: 2**  
Test Start: 2015.06.18 @ 17:11:53

**Tool Information**

Drill Pipe:	Length: 5926.00 ft	Diameter: 3.80 inches	Volume: 83.13 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 40000.00 lb
Drill Collar:	Length: 270.00 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 84.46 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 97000.00 lb
Depth to Top Packer:	6210.00 ft			Final 100000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	200.00 ft			
Tool Length:	226.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			6189.00	
Hydraulic tool	5.00			6194.00	
Jars	5.00			6199.00	
Safety Joint	2.00			6201.00	
Packer	5.00			6206.00	26.00      Bottom Of Top Packer
Packer	4.00			6210.00	
Stubb	1.00			6211.00	
Recorder	0.00	6798	Inside	6211.00	
Recorder	0.00	8367	Outside	6211.00	
Perforations	7.00			6218.00	
Change Over Sub	1.00			6219.00	
Drill Pipe	187.00			6406.00	
Change Over Sub	1.00			6407.00	
Bullnose	3.00			6410.00	200.00      Bottom Packers & Anchor

**Total Tool Length: 226.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palmer Oil Co

**12-34S-33W Seward,KS**

PO Box 399  
Garden City, KS 67846

**Hatcher #12-1**

Job Ticket: 59770

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2015.06.18 @ 17:11:53

## 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: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1300.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1365.00	Mud	16.688

Total Length: 1365.00 ft      Total Volume: 16.688 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

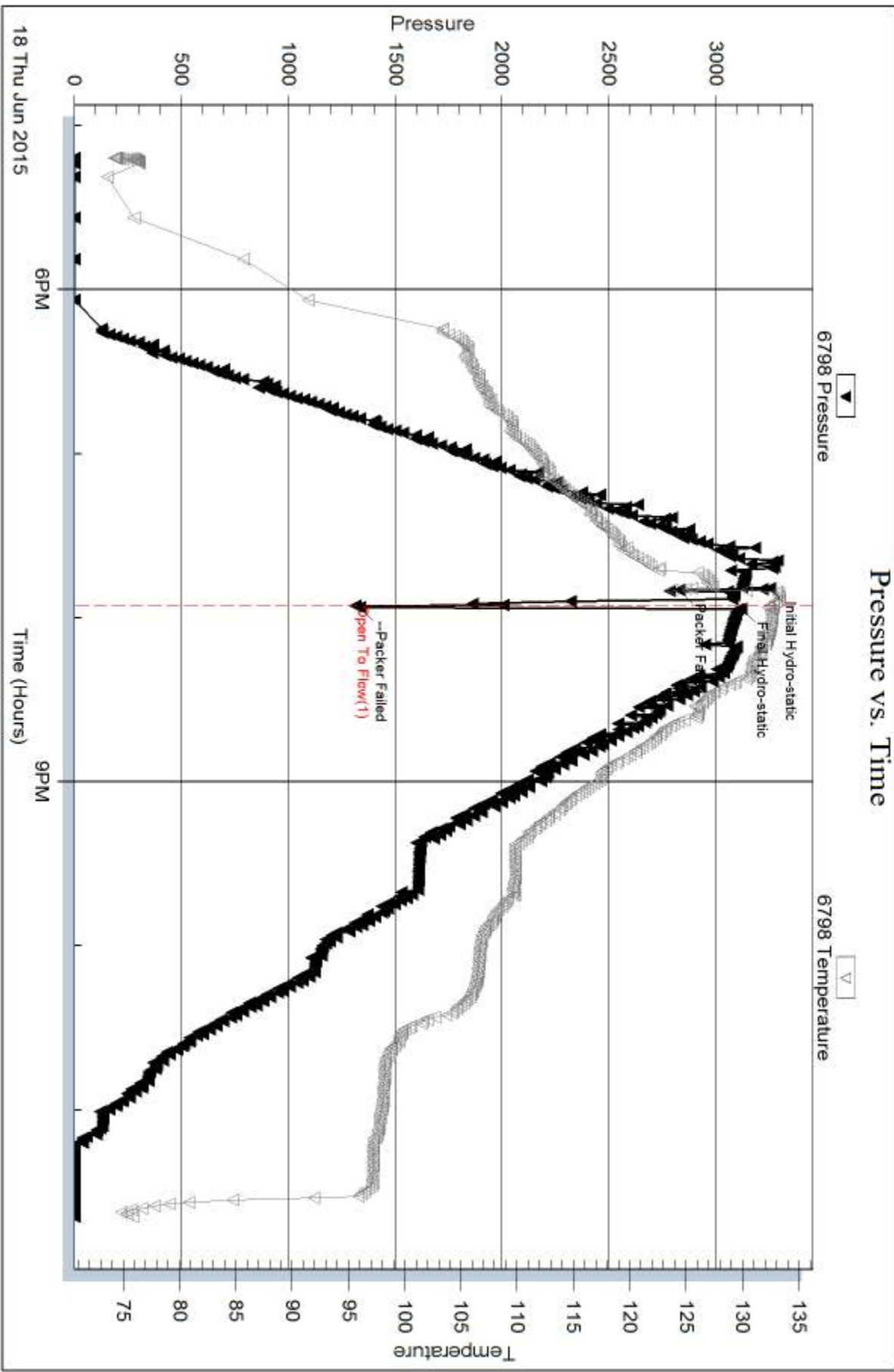
Serial #: 6798

Inside

Palmer Oil Co

Hatcher #12-1

DST Test Number: 2

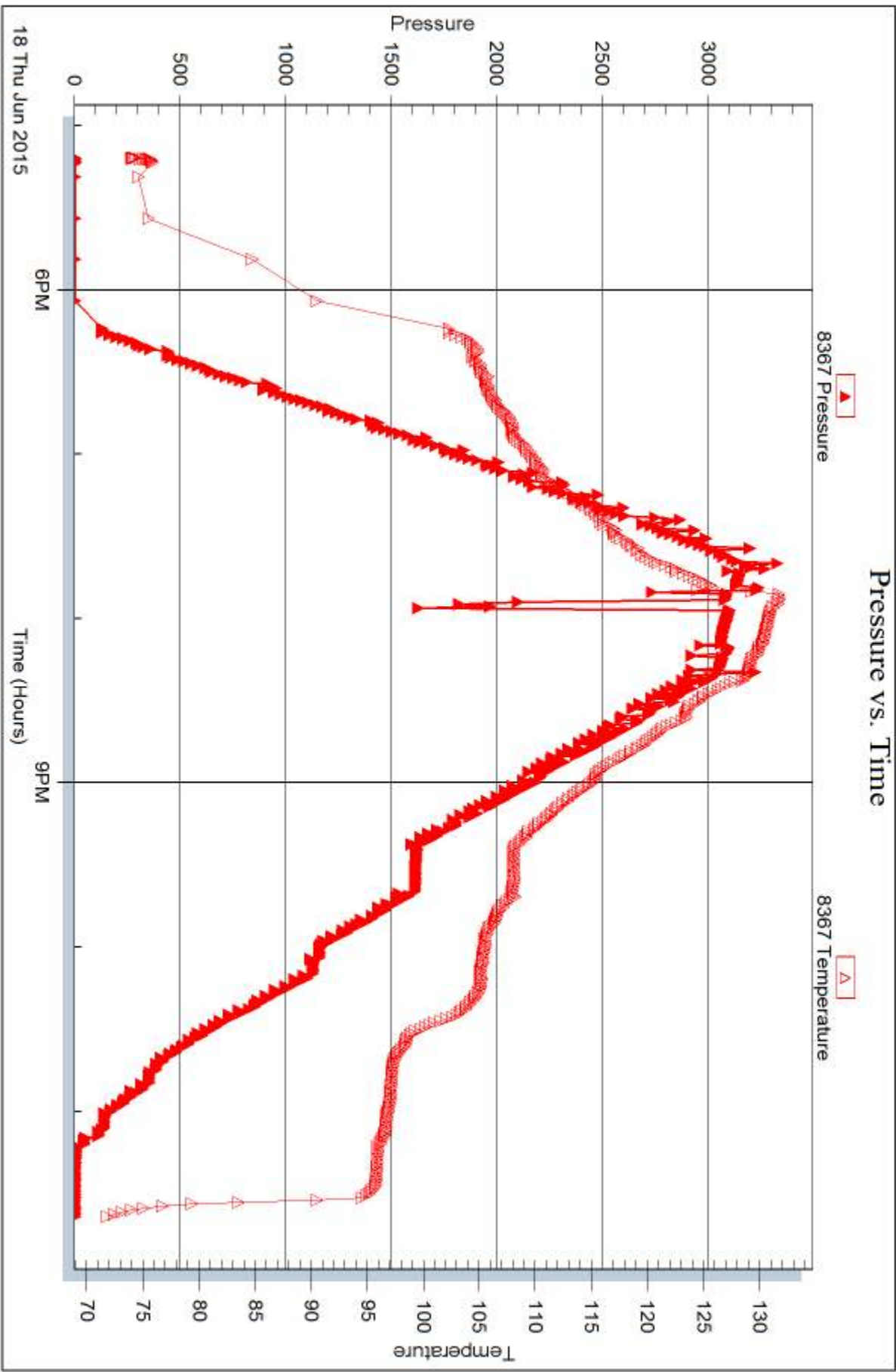


Serial #: 8367

Outside Palmer Oil Co

Hatcher #12-1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59770

Printed: 2015.06.19 @ 11:15:51



## DRILL STEM TEST REPORT

Prepared For: **Palmer Oil Co**

PO Box 399  
Garden City, KS 67846

ATTN: Luke Thompson

### **Hatcher #12-1**

### **12-34S-33W Seward,KS**

Start Date: 2015.06.18 @ 23:56:36

End Date: 2015.06.19 @ 06:32:21

Job Ticket #: 59771                      DST #: 3

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

Printed: 2015.06.19 @ 11:15:15



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palmer Oil Co  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

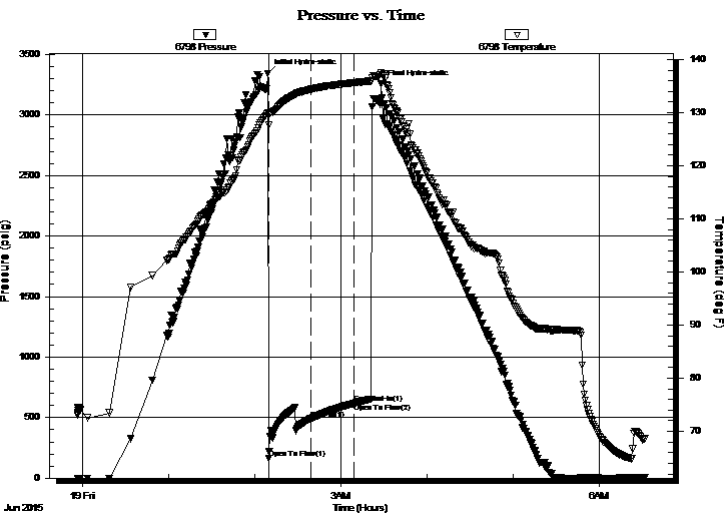
**12-34S-33W Seward,KS**  
**Hatcher #12-1**  
Job Ticket: 59771      **DST#: 3**  
Test Start: 2015.06.18 @ 23:56:36

## GENERAL INFORMATION:

Formation: **Chester**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 02:09:51  
Time Test Ended: 06:32:21  
Interval: **6312.00 ft (KB) To 6410.00 ft (KB) (TVD)**  
Total Depth: 6410.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 2858.00 ft (KB)  
2847.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6798      Inside**  
Press@RunDepth: 490.95 psig @ 6313.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.06.18      End Date: 2015.06.19      Last Calib.: 2015.06.19  
Start Time: 23:56:37      End Time: 06:32:21      Time On Btm: 2015.06.19 @ 02:09:21  
Time Off Btm: 2015.06.19 @ 03:28:06

TEST COMMENT: IF: Weak Surface Blow , Dead @ 27 minutes  
IS: No Blow Back  
FF: No Blow , Pulled @ 10 minutes



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3344.29	130.02	Initial Hydro-static
1	165.62	127.65	Open To Flow (1)
30	490.95	134.39	Shut-In(1)
60	616.95	135.61	End Shut-In(1)
60	618.34	135.62	Open To Flow (2)
79	3254.49	137.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palmer Oil Co  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

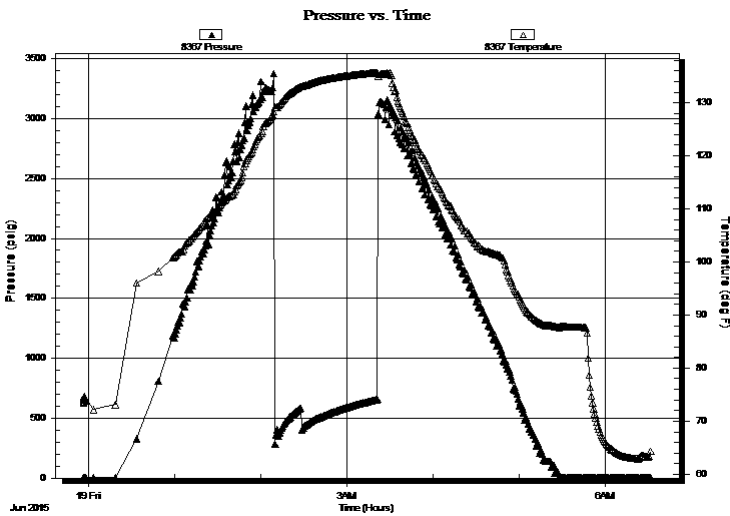
**12-34S-33W Seward, KS**  
**Hatcher #12-1**  
Job Ticket: 59771      **DST#: 3**  
Test Start: 2015.06.18 @ 23:56:36

### GENERAL INFORMATION:

Formation: **Chester**  
Deviated: No Whipstock:                              ft (KB)  
Time Tool Opened: 02:09:51  
Time Test Ended: 06:32:21  
**Interval: 6312.00 ft (KB) To 6410.00 ft (KB) (TVD)**  
Total Depth: 6410.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 2858.00 ft (KB)  
2847.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8367      Outside**  
Press@RunDepth:                              psig @      6313.00 ft (KB)      Capacity:                              8000.00 psig  
Start Date:                              2015.06.18      End Date:                              2015.06.19      Last Calib.:                              2015.06.19  
Start Time:                              23:56:37      End Time:                              06:32:06      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: Weak Surface Blow , Dead @ 27 minutes  
IS: No Blow Back  
FF: No Blow , Pulled @ 10 minutes



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palmer Oil Co  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

**12-34S-33W Seward,KS**  
**Hatcher #12-1**  
Job Ticket: 59771      **DST#: 3**  
Test Start: 2015.06.18 @ 23:56:36

**Tool Information**

Drill Pipe:	Length: 6020.00 ft	Diameter: 3.80 inches	Volume: 84.44 bbl	Tool Weight: 2100.00 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: 270.00 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 85.77 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 97000.00 lb
Depth to Top Packer:	6312.00 ft			Final 97000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	124.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Shale Packer On Bottom

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut In Tool	5.00			6291.00	
Hydraulic tool	5.00			6296.00	
Jars	5.00			6301.00	
Safety Joint	2.00			6303.00	
Packer	5.00			6308.00	26.00      Bottom Of Top Packer
Packer	4.00			6312.00	
Stubb	1.00			6313.00	
Recorder	0.00	6798	Inside	6313.00	
Recorder	0.00	8367	Outside	6313.00	
Perforations	30.00			6343.00	
Change Over Sub	1.00			6344.00	
Drill Pipe	62.00			6406.00	
Change Over Sub	1.00			6407.00	
Bullnose	3.00			6410.00	98.00      Bottom Packers & Anchor

**Total Tool Length: 124.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palmer Oil Co  
PO Box 399  
Garden City, KS 67846  
ATTN: Luke Thompson

**12-34S-33W Seward,KS**  
**Hatcher #12-1**  
Job Ticket: 59771      **DST#: 3**  
Test Start: 2015.06.18 @ 23:56:36

### Mud and Cushion Information

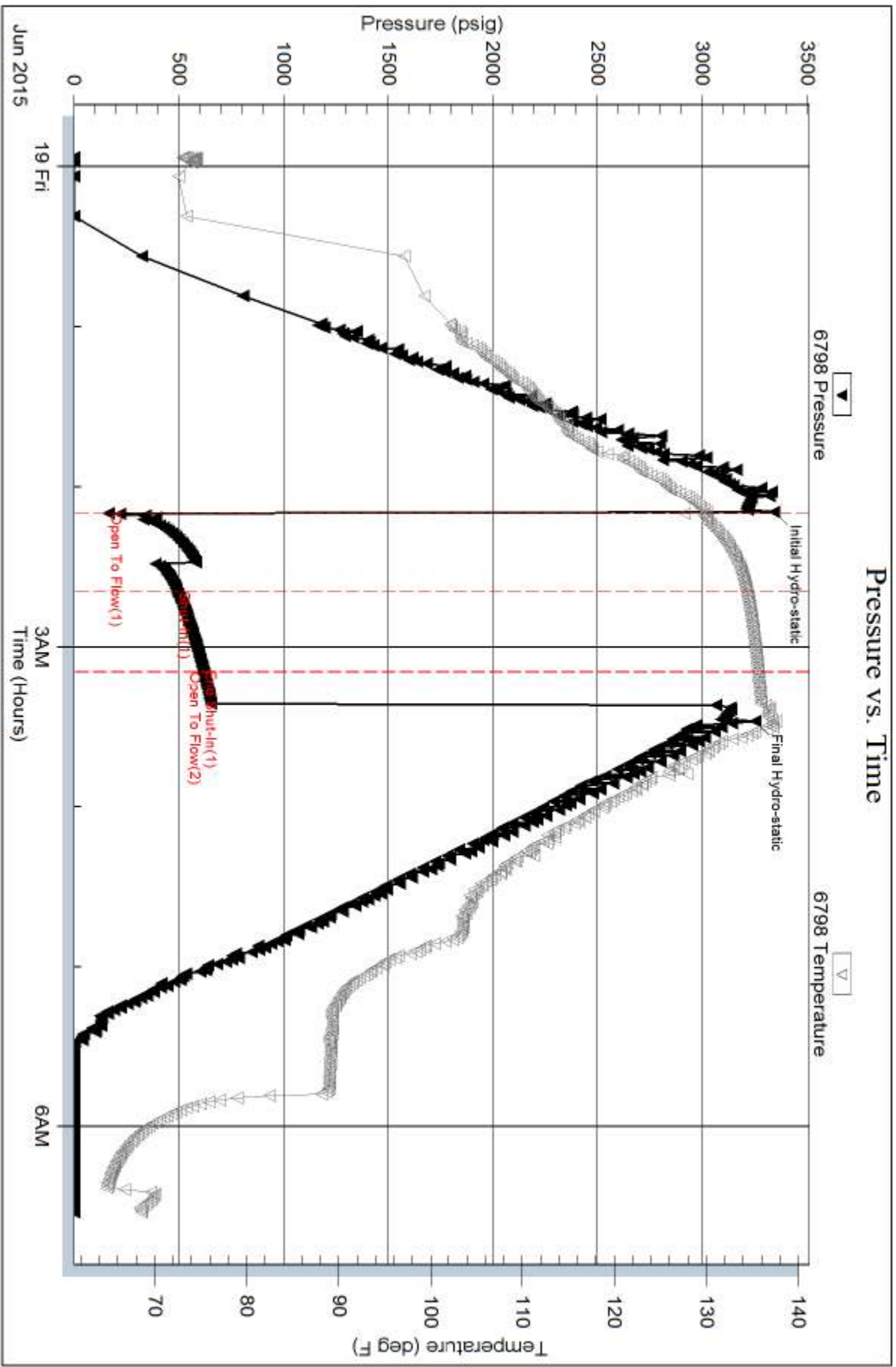
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: 0.02 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

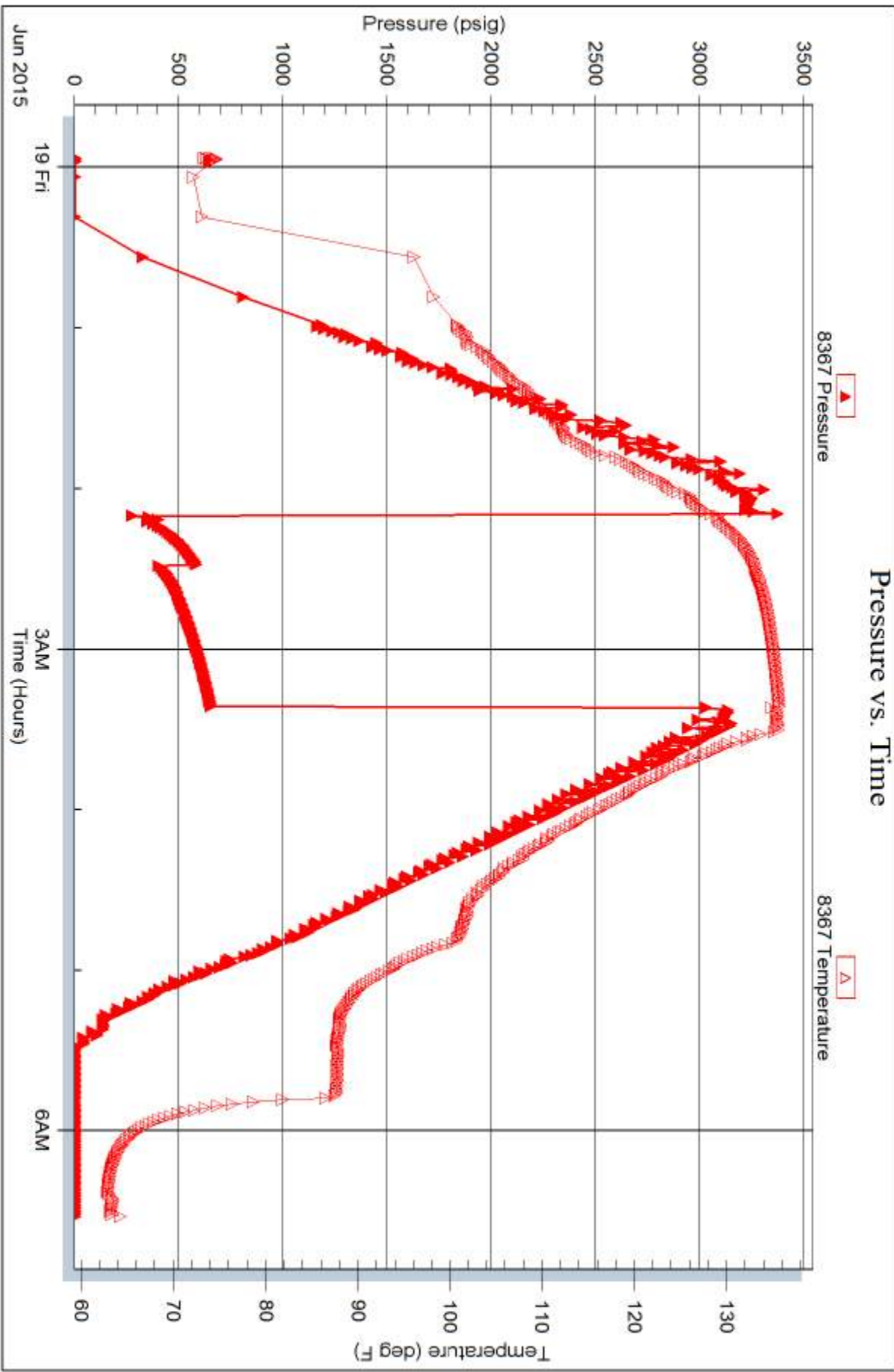


Serial #: 8367

Outside Palmer Oil Co

Hatcher #12-1

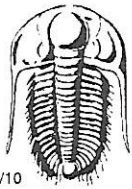
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59771

Printed: 2015.06.19 @ 11:15:17



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59769

Well Name & No. Hatcher 12-1 Test No. 1 Date 06/11/15  
 Company Palmer Oil Inc Elevation 2858 KB 2847 GL  
 Address PO Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Luke Thompson Rig Duke 5  
 Location: Sec. 12 Twp. 34 S Rge. 33 W Co. Jeward State KS

Interval Tested 4430 - 4490 Zone Tested Toronto  
 Anchor Length 60 Drill Pipe Run 4142 Mud Wt. 9.1  
 Top Packer Depth 4425 Drill Collars Run 270 Vis 56  
 Bottom Packer Depth 4430 Wt. Pipe Run 0 WL 9.2  
 Total Depth 4490 Chlorides 1300 ppm System LCM 12  
 Blow Description IF: weak surface blow  
FSI: No blow back  
FF: No blow / pulled @ 10 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				

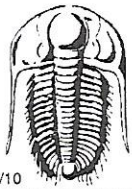
Rec Total 5 BHT 109 Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic <u>2371</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:30</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:06</u>
(C) First Final Flow <u>35</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:16</u>
(D) Initial Shut-In <u>438</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>14:27</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>16:43</u>
(F) Second Final Flow <u>N/A</u>	<input checked="" type="checkbox"/> Mileage <u>2607</u> 65	Comments
(G) Final Shut-In <u>N/A</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>14:27</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>10</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>N/A</u>	<input type="checkbox"/> Day Standby	Total <u>1540</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1540</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59770

Well Name & No. Hatcher 12-1 Test No. 2 Date 06/18/15  
 Company Palmer Oil Co Inc Elevation 2858 KB 2847 GL  
 Address PO Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Luke Thompson Rig Duke 5  
 Location: Sec. 12 Twp. 34S Rge. 33W Co. Seward State KS

Interval Tested 6210 - 6410 Zone Tested Chester  
 Anchor Length 200 Drill Pipe Run 5926 Mud Wt. 9.4  
 Top Packer Depth 6205 Drill Collars Run 270 Vis 5-5  
 Bottom Packer Depth 6210 Wt. Pipe Run 0 WL 8.8  
 Total Depth 6410 Chlorides 1350 ppm System LCM 10  
 Blow Description Packer Failure, Tried to reset, Failed, Pulled TEST

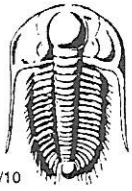
Rec	Feet of	%gas	%oil	%water	%mud
<u>1365</u>	<u>Mud</u>				

Rec Total 1365 BHT 132 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic <u>3252</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>15:30</u>
(B) First Initial Flow <u>N/A</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:11</u>
(C) First Final Flow <u>N/A</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:55</u>
(D) Initial Shut-In <u>N/A</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>19:56</u>
(E) Second Initial Flow <u>N/A</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:38</u>
(F) Second Final Flow <u>N/A</u>	<input checked="" type="checkbox"/> Mileage <u>260</u> 65	Comments
(G) Final Shut-In <u>N/A</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>3118</u>	<input type="checkbox"/> Straddle	
Initial Open <u>N/A</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>N/A</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>N/A</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>N/A</u>	<input checked="" type="checkbox"/> Day Standby <u>6.5d 10.75h</u>	Total <u>2340</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1540</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59771

Well Name & No. Hatcher 12-1 Test No. 3 Date 06/18/15  
 Company Palmer oil co inc Elevation 2858 KB 2847 GL  
 Address Po Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Luke Thompson Rig Duke 5  
 Location: Sec. 12 Twp. 34S Rge. 33W Co. Seward State KS

Interval Tested 6312 - 6410 Zone Tested Chester  
 Anchor Length 98 Drill Pipe Run 6020 Mud Wt. 9.4  
 Top Packer Depth 6307 Drill Collars Run 270 Vis 0.55  
 Bottom Packer Depth 6312 Wt. Pipe Run 0 WL 8.8  
 Total Depth 6410 Chlorides 1350 ppm System LCM 10

Blow Description IF: weak surface blow, dead @ 27 minutes  
ISI: NO BLOW BACK  
FF: NO BLOW, Pulled @ 10 minutes

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				

Rec Total 5 BHT 137 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic <u>3344</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>23:45</u>
(B) First Initial Flow <u>165</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>23:56</u>
(C) First Final Flow <u>498</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>02:09</u>
(D) Initial Shut-In <u>617</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>03:28</u>
(E) Second Initial Flow <u>618</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>06:37</u>
(F) Second Final Flow <u>N/A</u>	<input type="checkbox"/> Mileage	Comments
(G) Final Shut-In <u>N/A</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>3254</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>10</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>N/A</u>	<input type="checkbox"/> Accessibility	Total <u>1725</u>
	Sub Total <u>1725</u>	MP/DST Disc't

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