



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1254344
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1254344

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	Hiebsch 7-1
Doc ID	1254344

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	Hiebsch 7-1
Doc ID	1254344

Tops

Name	Top	Datum
Anhy	1584	+1239
B/Anhy	1654	+1169
Lansing	4518	-1695
B/KC	5203	-2380
Marmaton	5214	-2391
Cherokee	5418	-2595
Morrow	5782	-2959
Keyes	5971	-3148
Chester Lime	6130	-3307
St.Gen	6368	-3543
St.Louis	6430	-3607

ALLIED OIL & GAS SERVICES, LLC 065309

Federal Tax I.D. # 20-0651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Liberal (B1)

DATE <u>5-21-15</u>	SEC. <u>7</u>	TWP. <u>34S</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00pm</u>	JOB FINISH <u>7:00pm</u>
LEASE <u>Hirsch</u>	WELL # <u>7-1</u>	LOCATION <u>Vca. Liberal KS</u>	COUNTY <u>Seward</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Duke #5 OWNER _____

TYPE OF JOB P.T.A.

HOLE SIZE T.D. CEMENT _____

CASING SIZE 8 5/8 240 DEPTH 1740' AMOUNT ORDERED 170 SK 60/40

TUBING SIZE _____ DEPTH _____ 4% gel Class A

DRILL PIPE 4 1/2 16.6# DEPTH 1740'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____ COMMON _____ @ _____

MEAS. LINE _____ SHOE JOINT _____ CB-APP: 40/60 4+ class 170 SK \$1,898 3,216.40

CEMENT LEFT IN CSG. _____ GEL _____ @ _____

PERFS. _____ CHLORIDE _____ @ _____

DISPLACEMENT _____ ASC _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Hilda Eselmeza

521-541 HELPER Ricardo Estrada

BULK TRUCK _____

868-467 DRIVER Jose Andres Zubia

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

HANDLING _____ @ _____

MILEAGE _____ @ _____

1286.56 / 40% TOTAL 3,216.40

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE 2,249.84

EXTRA FOOTAGE 114 ft @ 4.40 88.00

MILEAGE HvM 20 mi @ 7.70 154.00

MANIFOLD Drill Bin 1 @ 168.75 168.75

Handling 180 FT @ 2.48 446.40

Drayage 153 T-M @ 2.75 420.75

1411.10 / 40% TOTAL 3,522.24

CHARGE TO: Palmer Oil Inc.
STREET P.O. Box 399
CITY Garden City STATE KS ZIP 67846

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL φ

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____

TOTAL CHARGES 6,744.14

DISCOUNT 2677.66 / 40% IF PAID IN 30 DAYS

NET = 4,046.48

PRINTED NAME KENNETH MCGUIRE

SIGNATURE Kenneth McGuire

ALLIED OIL & GAS SERVICES, LLC 065472

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Liberal KS

DATE <u>5-6-15</u>	SEC. <u>7</u>	TWP. <u>34S</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>2:00 p.m.</u>	JOB START <u>5:30 p.m.</u>	JOB FINISH <u>7:30 p.m.</u>
LEASE <u>Hiebsch</u>	WELL # <u>7-1</u>	LOCATION <u>Vec Liberal KS</u>			COUNTY <u>Seward</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>Duke # 5</u>	OWNER
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>1710</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>1702</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>4325</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>105.7</u>	
EQUIPMENT	

PUMP TRUCK CEMENTER <u>Lenny Baeza</u>
<u>903-501</u> HELPER <u>Aldo Espinoza</u>
BULK TRUCK
<u>705-042</u> DRIVER <u>Gregory Randall</u>
BULK TRUCK
<u>994-642</u> DRIVER <u>Ramon Escarcega</u>

CEMENT	
AMOUNT ORDERED <u>200SK 65-35-60 ccl 39cc</u>	
<u>.S# flo seal 200SK Class A 39cc 1/4# flo seal</u>	
COMMON <u>200SK</u>	@ <u>17.90</u> <u>3580.00</u>
POZMIX	@
GEL	@
CHLORIDE <u>2391 #</u>	@ <u>1.10</u> <u>2630.10</u>
ASC	@
<u>Allied Light Weight Class A 700SK</u>	@ <u>19.88</u> <u>13916.00</u>
<u>fl seal 400#</u>	@ <u>2.97</u> <u>1188.00</u>
	@
	@
	@
	@
	@
HANDLING	@
MILEAGE	@
<u>8525.64 / 40%</u>	TOTAL <u>21314.10</u>

REMARKS:

SERVICE


DEPTH OF JOB <u>1001-2000</u>	
PUMP TRUCK CHARGE	<u>2213.25</u>
MANIFOLD	<u>20</u> @ <u>4.40</u> <u>88.00</u>
MILEAGE <u>20</u>	@ <u>7.70</u> <u>154.00</u>
MANIFOLD	@ <u>2.75</u> <u>275.00</u>
<u>Handling 1035</u>	@ <u>2.48</u> <u>2566.00</u>
<u>Cray Age 062</u>	@ <u>2.75</u> <u>2372.50</u>
<u>3067.22 / 40%</u>	TOTAL <u>7668.05</u>

CHARGE TO: Palmer Oil Inc
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>Guide shoe</u>	@	<u>\$ 460.00</u>
<u>BF4 Insert float valve</u>	@	<u>447.00</u>
<u>Centralizer</u>	@	<u>225.00</u>
<u>Rubber plug</u>	@	<u>131.00</u>
<u>Cement basket</u>	@	<u>560.00</u>
<u>729.20 / 40%</u>	TOTAL <u>1823.00</u>	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mike Bradshaw
SIGNATURE 

SALES TAX (If Any) _____
TOTAL CHARGES \$ 30805.15
DISCOUNT 12222.06 / 40% PAID IN 30 DAYS
Net \$ 18483.09



DRILL STEM TEST REPORT

Prepared For: **Palmer Oil, Inc**

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Hiebsch #7-1

S7-34s-32w Seward,KS

Start Date: 2015.05.11 @ 20:15:00

End Date: 2015.05.12 @ 05:57:30

Job Ticket #: 58814 DST #: 1

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

Printed: 2015.05.22 @ 08:26:56

Palmer Oil, Inc
S7-34s-32w Seward,KS
Hiebsch #7-1
DST # 1
Toronto
2015.05.11



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

S7-34s-32w Seward,KS

Hiebsch #7-1

Job Ticket: 58814

DST#: 1

Test Start: 2015.05.11 @ 20:15:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:58:15

Time Test Ended: 05:57:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III

Unit No: 67

Interval: 4448.00 ft (KB) To 4514.00 ft (KB) (TVD)

Reference Elevations: 2823.00 ft (KB)

Total Depth: 4514.00 ft (KB) (TVD)

2812.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8968 Outside

Press@RunDepth: 162.03 psig @ 4451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.11 End Date: 2015.05.12

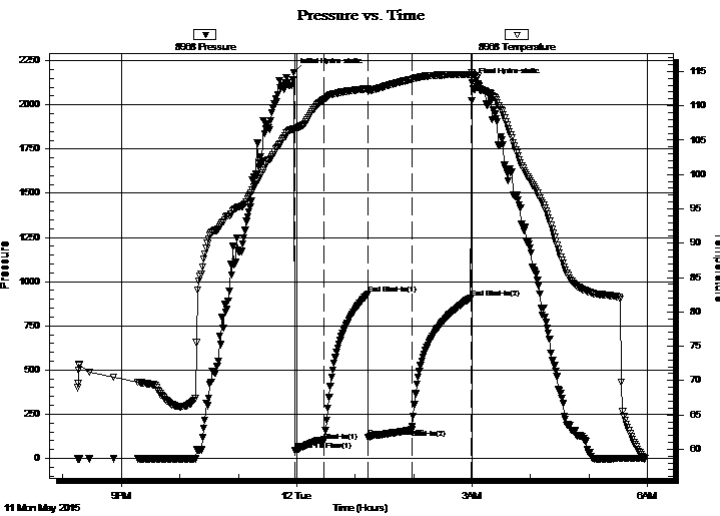
Last Calib.: 2015.05.12

Start Time: 20:15:05 End Time: 05:57:30

Time On Btm: 2015.05.11 @ 23:57:15

Time Off Btm: 2015.05.12 @ 03:00:00

TEST COMMENT: IF: BOB in 1 min. 15 sec.- GTS in 10 min.- Too small to gauge
IS: Bled off in 2 min.- Weak surface blow back- Built to 2" return
FF: 2" Immediately- BOB and GTS in 3 min.- Too small to gauge
FS: Bled off in 3 min.- Weak surface blow back- Built to 1 1/2". of return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.04	106.74	Initial Hydro-static
1	43.31	106.54	Open To Flow (1)
31	96.75	110.86	Shut-In(1)
76	929.97	112.49	End Shut-In(1)
76	118.18	112.20	Open To Flow (2)
121	162.03	113.85	Shut-In(2)
182	909.65	114.58	End Shut-In(2)
183	2125.36	114.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	G & Mcw 5g 20m 75w	0.59
214.00	O & Gcm 5o 15g 80m	1.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

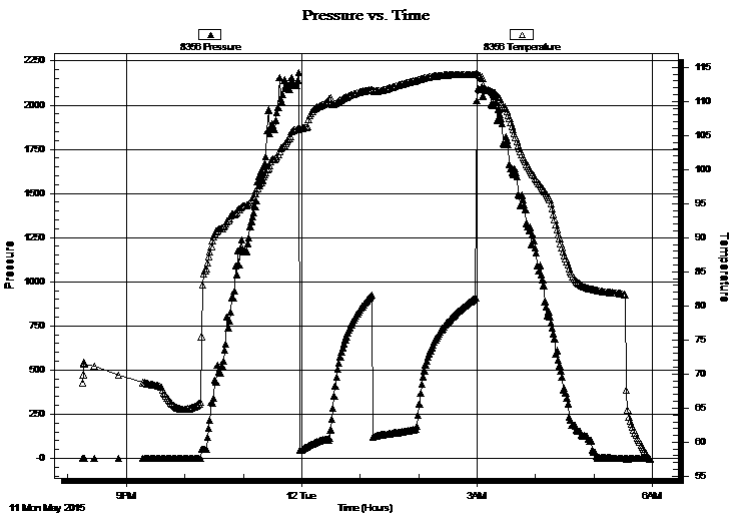
S7-34s-32w Seward,KS
Hiebsch #7-1
Job Ticket: 58814 **DST#: 1**
Test Start: 2015.05.11 @ 20:15:00

GENERAL INFORMATION:

Formation: Toronto	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Cornelio Landa III
Time Tool Opened: 23:58:15	Unit No: 67
Time Test Ended: 05:57:30	Reference Elevations: 2823.00 ft (KB)
Interval: 4448.00 ft (KB) To 4514.00 ft (KB) (TVD)	2812.00 ft (CF)
Total Depth: 4514.00 ft (KB) (TVD)	KB to GR/CF: 11.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 8356 Inside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 4451.00 ft (KB)	Last Calib.: 2015.05.12
Start Date: 2015.05.11 End Date: 2015.05.12	Time On Btm:
Start Time: 20:15:05 End Time: 05:57:30	Time Off Btm:

TEST COMMENT: IF: BOB in 1 min. 15 sec.- GTS in 10 min.- Too small to gauge
IS: Bled off in 2 min.- Weak surface blow back- Built to 2" return
FF: 2" Immediately- BOB and GTS in 3 min.- Too small to gauge
FS: Bled off in 3 min.- Weak surface blow back- Built to 1 1/2". of return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	G & Mcw 5g 20m 75w	0.59
214.00	O & Gcm 5o 15g 80m	1.91

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 58814

DST#: 1

ATTN: Luke Thompson

Test Start: 2015.05.11 @ 20:15:00

Tool Information

Drill Pipe:	Length: 4203.00 ft	Diameter: 3.80 inches	Volume: 58.96 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 60.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4448.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	93.00 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			4422.00	
Shut In Tool	5.00			4427.00	
Hydraulic tool	5.00			4432.00	
Jars	5.00			4437.00	
Safety Joint	2.00			4439.00	
Packer	5.00			4444.00	27.00 Bottom Of Top Packer
Packer	4.00			4448.00	
Stubb	1.00			4449.00	
Perforations	1.00			4450.00	
Change Over Sub	1.00			4451.00	
Recorder	0.00	8356	Inside	4451.00	
Recorder	0.00	8968	Outside	4451.00	
Drill Pipe	31.00			4482.00	
Change Over Sub	1.00			4483.00	
Perforations	28.00			4511.00	
Bullnose	3.00			4514.00	66.00 Bottom Packers & Anchor
Total Tool Length:	93.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 58814

DST#: 1

ATTN: Luke Thompson

Test Start: 2015.05.11 @ 20:15:00

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: 225000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 2700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	G & Mcw 5g 20m 75w	0.590
214.00	O & Gcm 5o 15g 80m	1.909

Total Length: 334.00 ft Total Volume: 2.499 bbl

Num Fluid Samples: 0

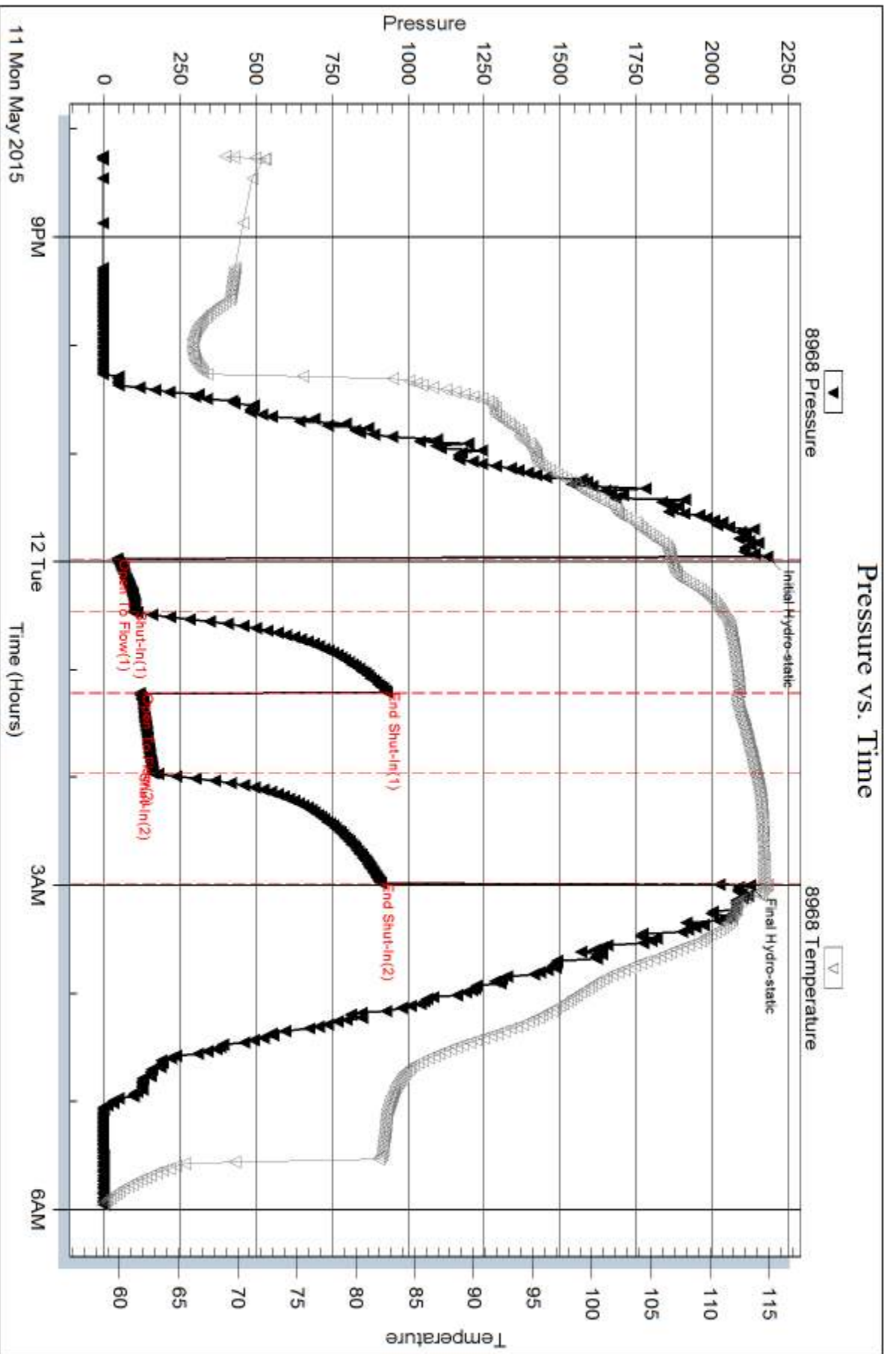
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



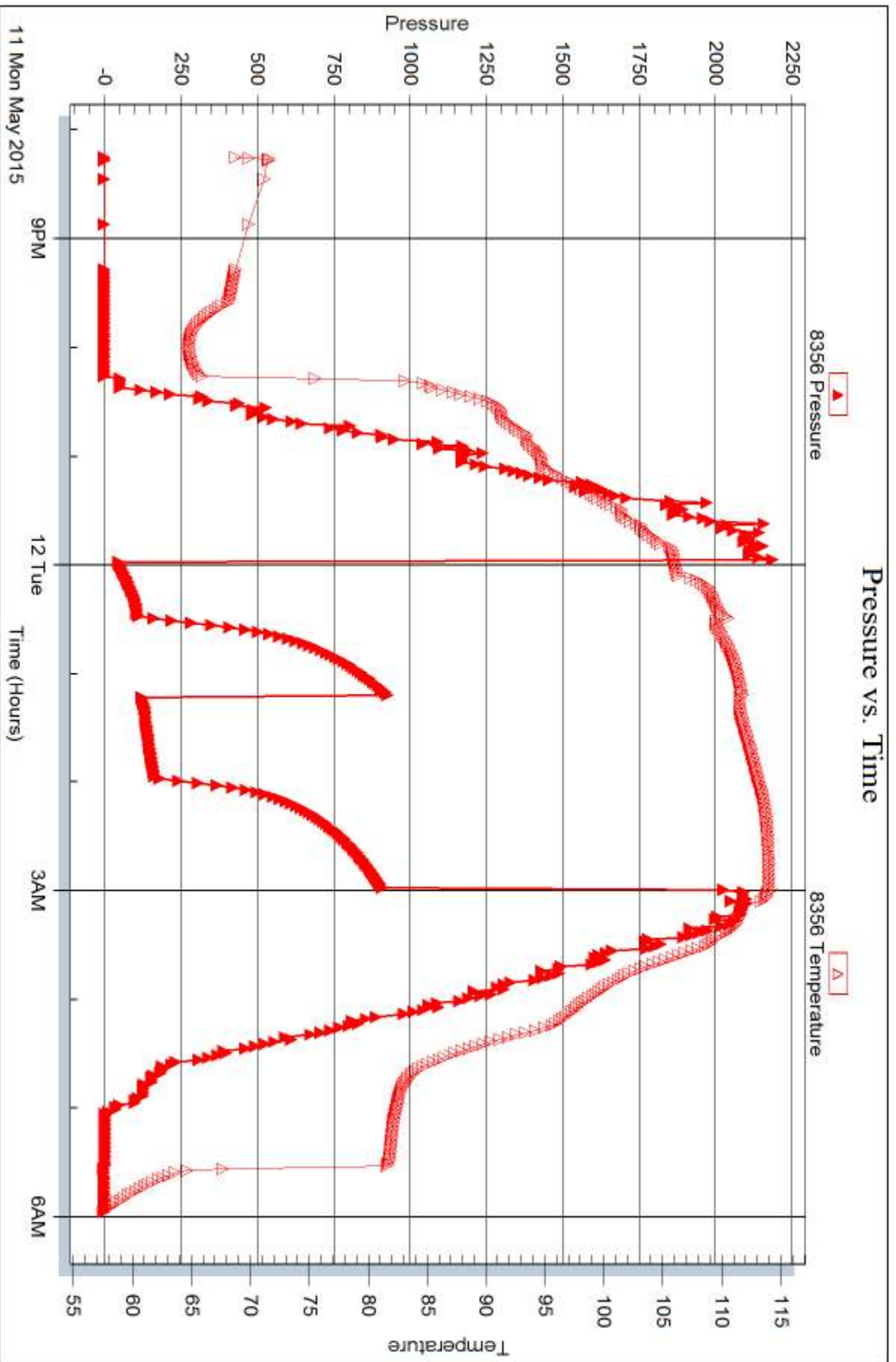
Serial #: 8356

Inside

Palmer Oil, Inc

Hiebsch #7-1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58814

Printed: 2015.05.22 @ 08:26:58



DRILL STEM TEST REPORT

Prepared For: **Palmer Oil, Inc**

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Hiebsch #7-1

S7-34s-32w Seward,KS

Start Date: 2015.05.16 @ 10:09:00

End Date: 2015.05.16 @ 18:06:50

Job Ticket #: 61682 DST #: 2

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

Printed: 2015.05.22 @ 08:26:13

Palmer Oil, Inc
S7-34s-32w Seward,KS
Hiebsch #7-1
DST # 2
Morrow
2015.05.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

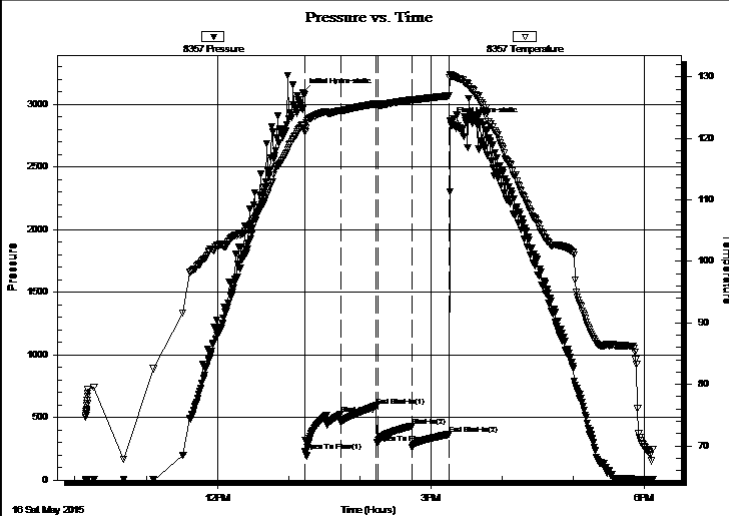
S7-34s-32w Seward,KS
Hiebsch #7-1
Job Ticket: 61682 **DST#: 2**
Test Start: 2015.05.16 @ 10:09:00

GENERAL INFORMATION:

Formation: Morrow			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 13:14:00		Tester: Chuck Smith	
Time Test Ended: 18:06:50		Unit No: 61	
Interval: 5771.00 ft (KB) To 6000.00 ft (KB) (TVD)		Reference Elevations: 2823.00 ft (KB)	
Total Depth: 6000.00 ft (KB) (TVD)		2812.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 11.00 ft	

Serial #: 8357	Inside		
Press@RunDepth: 431.90 psig @ 5774.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2015.05.16	End Date: 2015.05.16	Last Calib.: 2015.05.16	
Start Time: 10:09:02	End Time: 18:06:49	Time On Btm: 2015.05.16 @ 13:12:10	
		Time Off Btm: 2015.05.16 @ 15:16:20	

TEST COMMENT: 30- 2" Blow .
30- No return.
30- Weak surface blow died @ 5 min.
30- No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3089.92	122.25	Initial Hydro-static
2	227.46	121.09	Open To Flow (1)
32	523.17	124.57	Shut-In(1)
62	593.62	125.63	End Shut-In(1)
63	293.94	125.54	Open To Flow (2)
92	431.90	126.26	Shut-In(2)
124	366.43	126.93	End Shut-In(2)
125	2864.50	130.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	M 100m with a couple of oil spots.	0.34

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61682

DST#: 2

ATTN: Luke Thompson

Test Start: 2015.05.16 @ 10:09:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:14:00

Time Test Ended: 18:06:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

Interval: 5771.00 ft (KB) To 6000.00 ft (KB) (TVD)

Total Depth: 6000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2823.00 ft (KB)

2812.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 5774.00 ft (KB)

Start Date: 2015.05.16

End Date:

2015.05.16

Capacity: 8000.00 psig

Last Calib.:

2015.05.16

Start Time: 10:09:02

End Time:

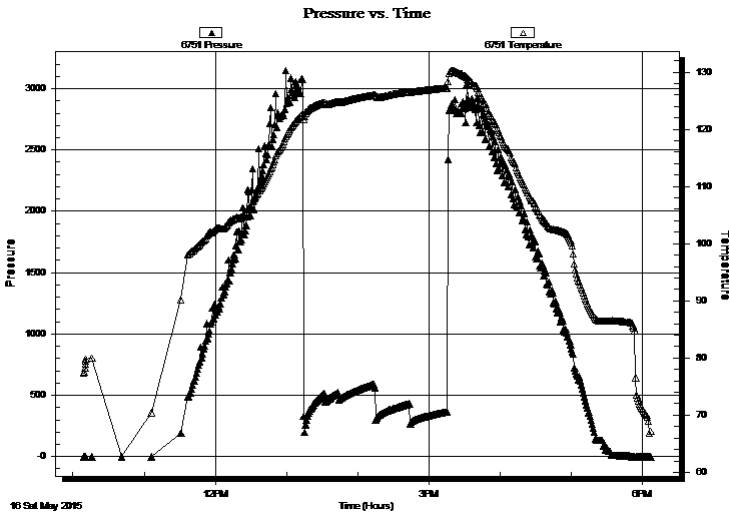
18:06:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- 2" Blow .
30- No return.
30- Weak surface blow died @ 5 min.
30- No return.

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
70.00	M 100m with a couple of oil spots.	0.34

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61682

DST#: 2

ATTN: Luke Thompson

Test Start: 2015.05.16 @ 10:09:00

Tool Information

Drill Pipe:	Length: 5520.00 ft	Diameter: 3.80 inches	Volume: 77.43 bbl	Tool Weight: 2500.00 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: 125000.0 lb
			<u>Total Volume: 78.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.50 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	5771.00 ft			Final 87000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	229.00 ft			
Tool Length:	256.50 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			5744.50	
Shut In Tool	5.00			5749.50	
Hydraulic tool	5.00			5754.50	
Jars	5.00			5759.50	
Safety Joint	2.50			5762.00	
Packer	5.00			5767.00	27.50 Bottom Of Top Packer
Packer	4.00			5771.00	
Stubb	1.00			5772.00	
Perforations	2.00			5774.00	
Recorder	0.00	8357	Inside	5774.00	
Recorder	0.00	6751	Outside	5774.00	
Perforations	33.00			5807.00	
Change Over Sub	1.00			5808.00	
Drill Pipe	188.00			5996.00	
Change Over Sub	1.00			5997.00	
Bullnose	3.00			6000.00	229.00 Bottom Packers & Anchor
Total Tool Length:	256.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61682

DST#: 2

ATTN: Luke Thompson

Test Start: 2015.05.16 @ 10:09:00

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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	M 100m w with a couple of oil spots.	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

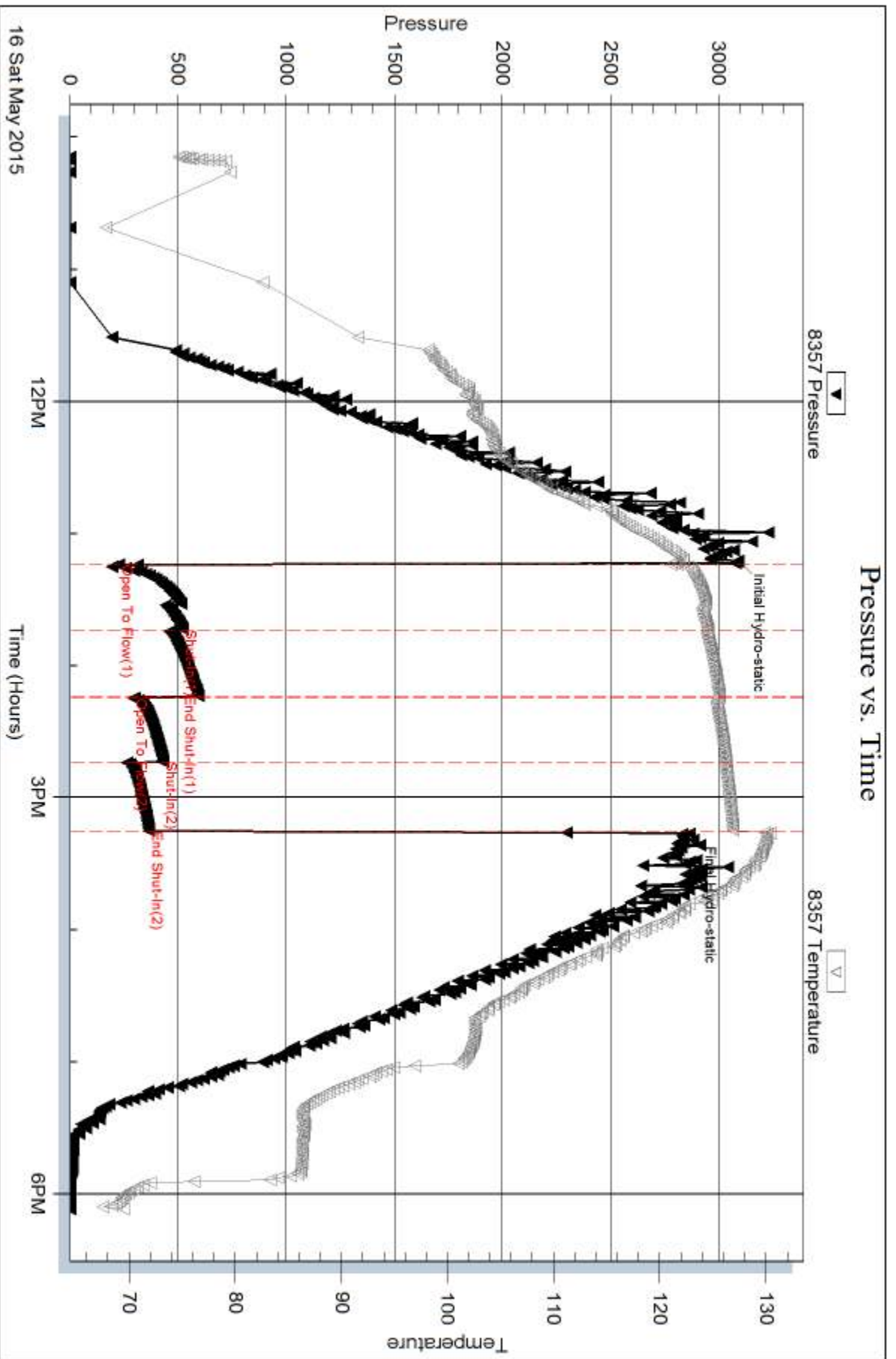
Serial #: 8357

Inside

Palmer Oil, Inc

Hiebsch #7-1

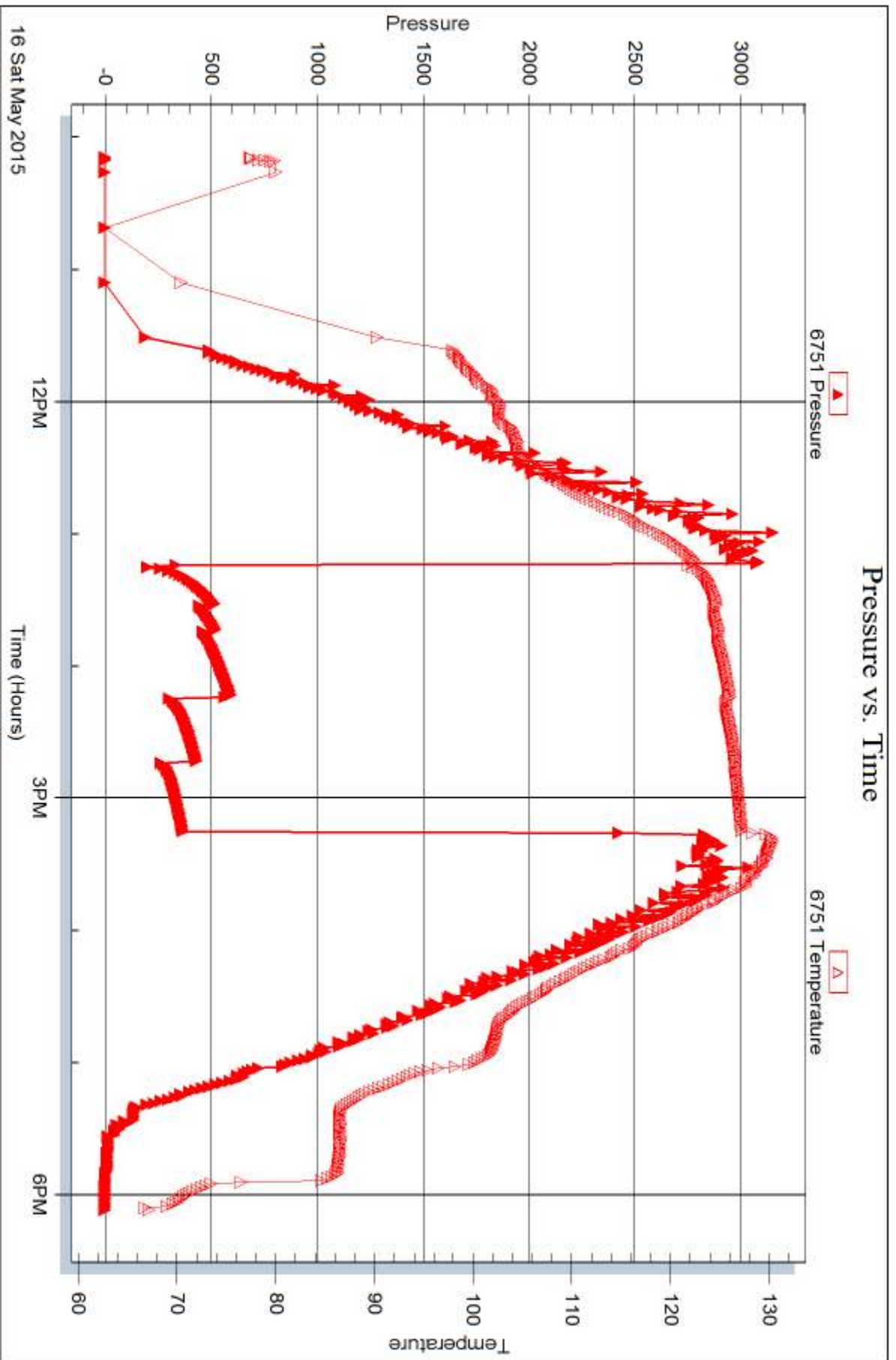
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61682

Printed: 2015.05.22 @ 08:26:14





DRILL STEM TEST REPORT

Prepared For: **Palmer Oil, Inc**

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Hiebsch #7-1

S7-34s-32w Seward,KS

Start Date: 2015.05.18 @ 08:02:00

End Date: 2015.05.18 @ 14:38:00

Job Ticket #: 61684 DST #: 3

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

Printed: 2015.05.22 @ 08:25:50



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61684

DST#: 3

ATTN: Luke Thompson

Test Start: 2015.05.18 @ 08:02:00

GENERAL INFORMATION:

Formation: **Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:12:50

Time Test Ended: 14:38:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

Interval: 6183.00 ft (KB) To 6334.00 ft (KB) (TVD)

Reference Elevations: 2823.00 ft (KB)

Total Depth: 6334.00 ft (KB) (TVD)

2812.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8357 Inside

Press@RunDepth: psig @ 6184.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.18

End Date: 2015.05.18

Last Calib.: 2015.05.18

Start Time: 08:02:02

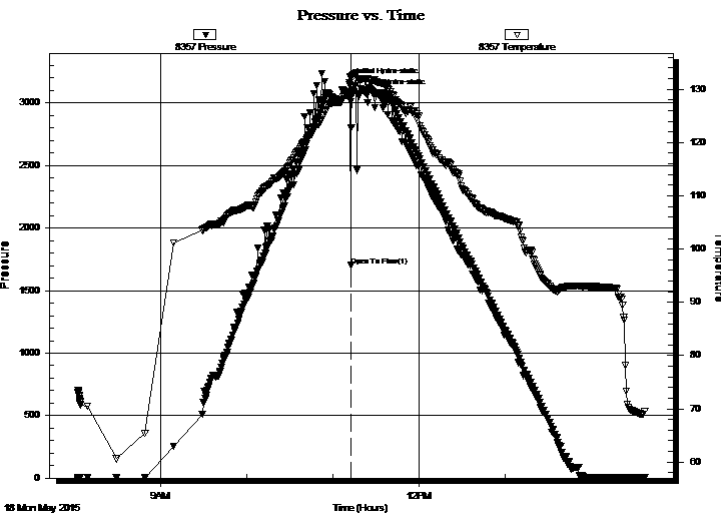
End Time: 14:38:00

Time On Btm: 2015.05.18 @ 11:11:50

Time Off Btm: 2015.05.18 @ 11:17:30

TEST COMMENT: Packer seat failed, reset packer again, packer seat failed, pulled tool.

11" Of bottom rubber are in the hole. Top packer rubber was split circumferentially.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3165.18	128.77	Initial Hydro-static
1	1701.81	127.64	Open To Flow (1)
6	3073.06	131.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	M 100m	2.86

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

S7-34s-32w Seward,KS

Hiebsch #7-1

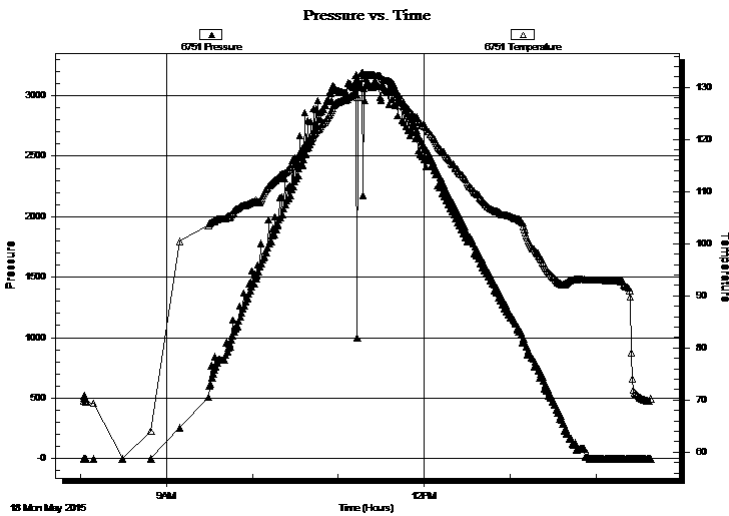
Job Ticket: 61684 **DST#: 3**
 Test Start: 2015.05.18 @ 08:02:00

GENERAL INFORMATION:

Formation: **Chester**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:12:50
 Time Test Ended: 14:38:00
Interval: 6183.00 ft (KB) To 6334.00 ft (KB) (TVD)
 Total Depth: 6334.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 61
 Reference Elevations: 2823.00 ft (KB)
 2812.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6751 Outside
 Press@RunDepth: psig @ 6184.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.18 End Date: 2015.05.18 Last Calib.: 2015.05.18
 Start Time: 08:02:12 End Time: 14:37:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: Packer seat failed, reset packer again, packer seat failed, pulled tool.
 11" Of bottom rubber are in the hole. Top packer rubber w as split circumferentially.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
360.00	M 100m	2.86

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61684

DST#: 3

ATTN: Luke Thompson

Test Start: 2015.05.18 @ 08:02:00

Tool Information

Drill Pipe:	Length: 5932.00 ft	Diameter: 3.80 inches	Volume: 83.21 bbl	Tool Weight: 2500.00 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: 125000.0 lb
			<u>Total Volume: 84.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.50 ft			String Weight: Initial 87000.00 lb
Depth to Top Packer:	6183.00 ft			Final 89000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	151.00 ft			
Tool Length:	178.50 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			6156.50	
Shut In Tool	5.00			6161.50	
Hydraulic tool	5.00			6166.50	
Jars	5.00			6171.50	
Safety Joint	2.50			6174.00	
Packer	5.00			6179.00	27.50 Bottom Of Top Packer
Packer	4.00			6183.00	
Stubb	1.00			6184.00	
Recorder	0.00	8357	Inside	6184.00	
Recorder	0.00	6751	Outside	6184.00	
Perforations	20.00			6204.00	
Change Over Sub	1.00			6205.00	
Drill Pipe	125.00			6330.00	
Change Over Sub	1.00			6331.00	
Bullnose	3.00			6334.00	151.00 Bottom Packers & Anchor

Total Tool Length: 178.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61684

DST#: 3

ATTN: Luke Thompson

Test Start: 2015.05.18 @ 08:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	M 100m	2.864

Total Length: 360.00 ft Total Volume: 2.864 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

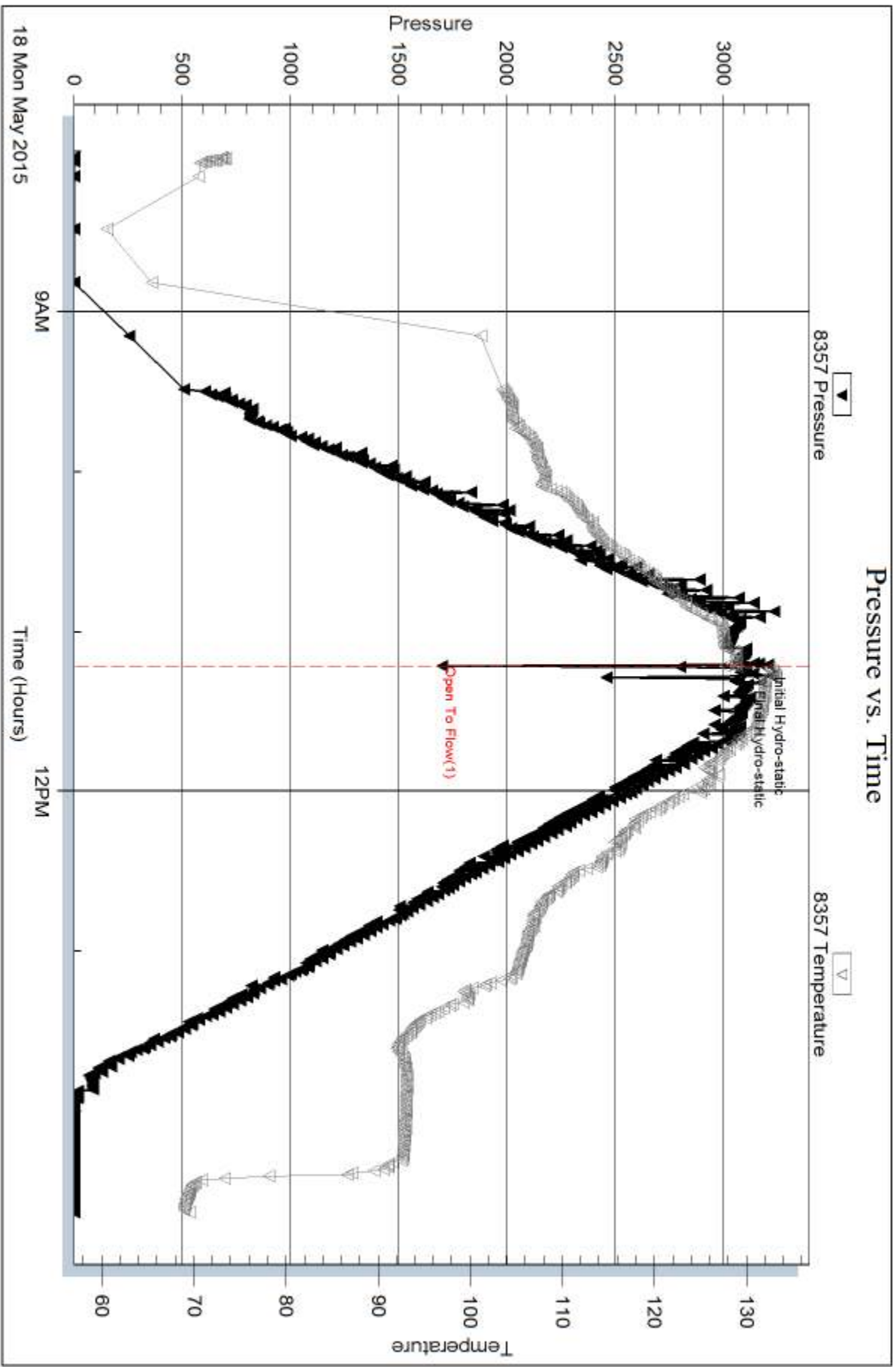
Serial #: 8357

Inside

Palmer Oil, Inc

Hiebsch #7-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 61684

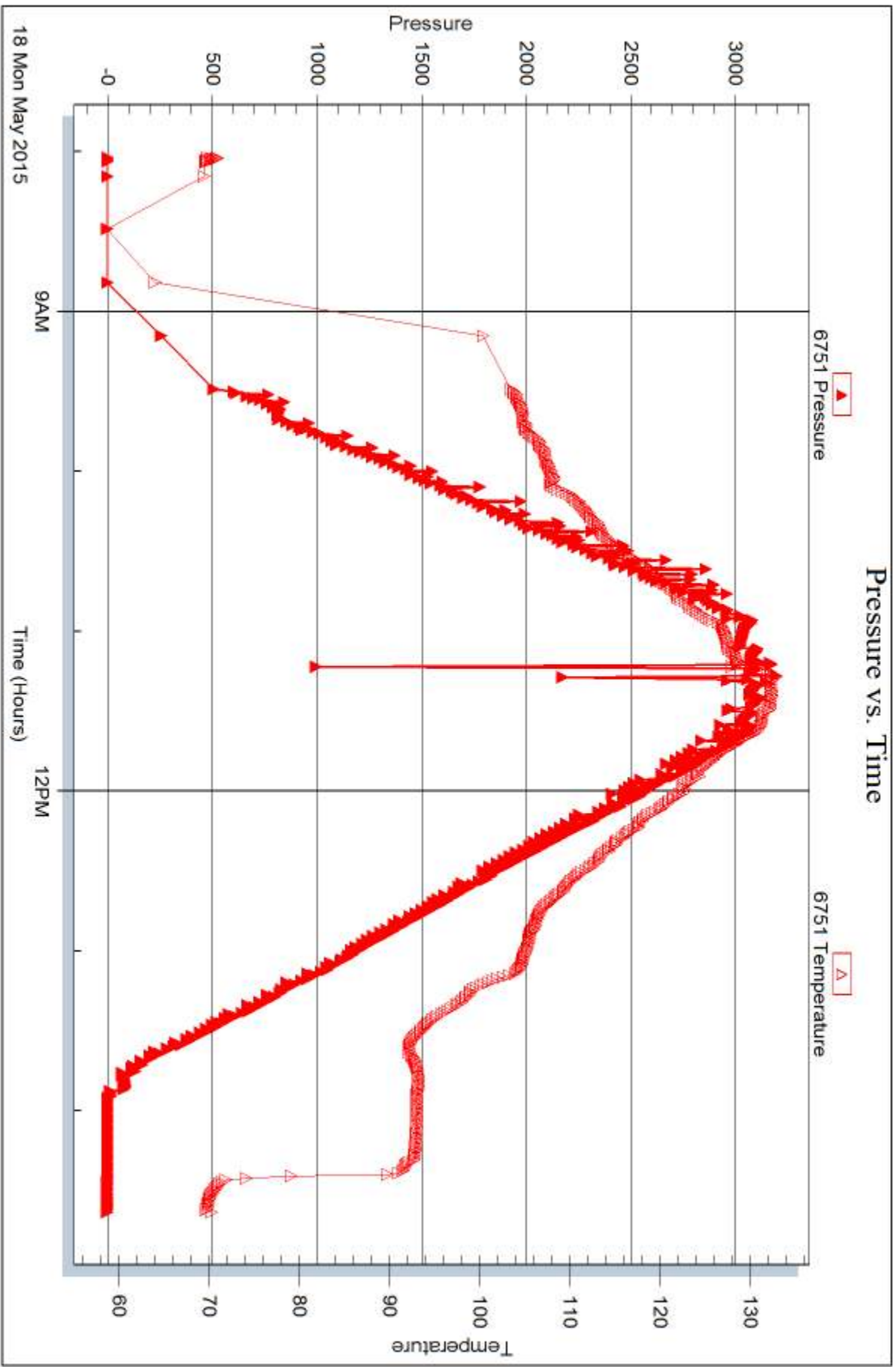
Printed: 2015.05.22 @ 08:25:51

Serial #: 6751

Outside Palmer Oil, Inc

Hiebsch #7-1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61684

Printed: 2015.05.22 @ 08:25:51



DRILL STEM TEST REPORT

Prepared For: **Palmer Oil, Inc**

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Hiebsch #7-1

S7-34s-32w Seward,KS

Start Date: 2015.05.18 @ 15:09:00

End Date: 2015.05.18 @ 22:28:30

Job Ticket #: 61685 DST #: 4

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

Printed: 2015.05.22 @ 08:25:19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

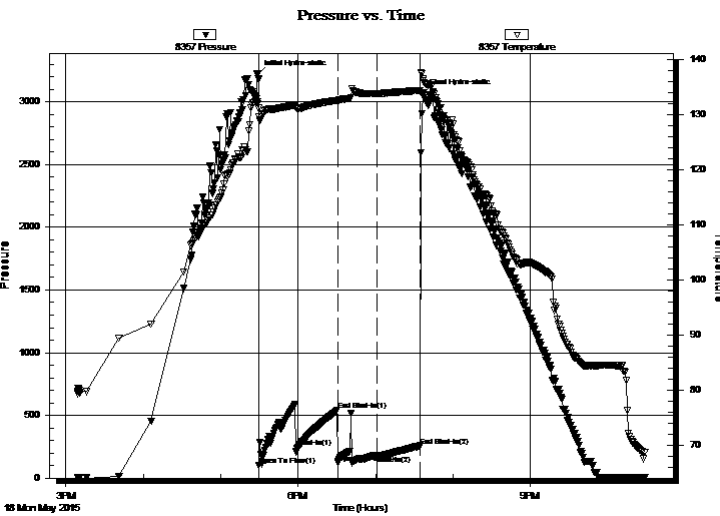
S7-34s-32w Seward,KS
Hiebsch #7-1
 Job Ticket: 61685 **DST#: 4**
 Test Start: 2015.05.18 @ 15:09:00

GENERAL INFORMATION:

Formation: **Chester**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:29:30
 Time Test Ended: 22:28:30
 Interval: **6082.00 ft (KB) To 6334.00 ft (KB) (TVD)**
 Total Depth: 6334.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 61
 Reference Elevations: 2823.00 ft (KB)
 2812.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8357 Inside
 Press@RunDepth: 184.39 psig @ 6083.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.18 End Date: 2015.05.18 Last Calib.: 2015.05.18
 Start Time: 15:09:02 End Time: 22:28:30 Time On Btm: 2015.05.18 @ 17:28:10
 Time Off Btm: 2015.05.18 @ 19:36:30

TEST COMMENT: 30- 1 1/2" Blow receded to 1".
 30- No return.
 30- No blow , flushed tool, surge died.
 33- No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3216.14	132.29	Initial Hydro-static
2	100.46	129.55	Open To Flow (1)
32	243.04	131.03	Shut-In(1)
63	542.42	132.59	End Shut-In(1)
63	121.85	132.45	Open To Flow (2)
93	184.39	133.84	Shut-In(2)
127	257.61	134.36	End Shut-In(2)
129	3069.24	136.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	M 100m	0.59

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

S7-34s-32w Seward,KS

Hiebsch #7-1

Job Ticket: 61685 **DST#: 4**

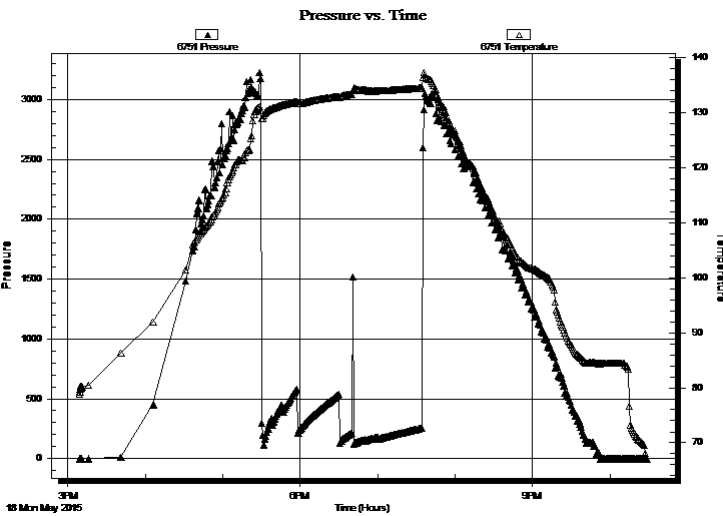
Test Start: 2015.05.18 @ 15:09:00

GENERAL INFORMATION:

Formation: **Chester**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:29:30
 Tester: Chuck Smith
 Time Test Ended: 22:28:30
 Unit No: 61
 Interval: **6082.00 ft (KB) To 6334.00 ft (KB) (TVD)**
 Reference Elevations: 2823.00 ft (KB)
 Total Depth: 6334.00 ft (KB) (TVD)
 2812.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 11.00 ft

Serial #: 6751 Outside
 Press@RunDepth: psig @ 6083.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.05.18 End Date: 2015.05.18 Last Calib.: 2015.05.18
 Start Time: 15:09:02 End Time: 22:28:19 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- 1 1/2" Blow receded to 1".
 30- No return.
 30- No blow , flushed tool, surge died.
 33- No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	M 100m	0.59

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61685

DST#: 4

ATTN: Luke Thompson

Test Start: 2015.05.18 @ 15:09:00

Tool Information

Drill Pipe:	Length: 5838.00 ft	Diameter: 3.80 inches	Volume: 81.89 bbl	Tool Weight: 2500.00 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: 92000.00 lb
			<u>Total Volume: 83.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.50 ft			String Weight: Initial 87000.00 lb
Depth to Top Packer:	6082.00 ft			Final 87000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	252.00 ft			
Tool Length:	279.50 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			6055.50	
Shut In Tool	5.00			6060.50	
Hydraulic tool	5.00			6065.50	
Jars	5.00			6070.50	
Safety Joint	2.50			6073.00	
Packer	5.00			6078.00	27.50 Bottom Of Top Packer
Packer	4.00			6082.00	
Stubb	1.00			6083.00	
Recorder	0.00	8357	Inside	6083.00	
Recorder	0.00	6751	Outside	6083.00	
Perforations	27.00			6110.00	
Change Over Sub	1.00			6111.00	
Drill Pipe	219.00			6330.00	
Change Over Sub	1.00			6331.00	
Bullnose	3.00			6334.00	252.00 Bottom Packers & Anchor

Total Tool Length: 279.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61685

DST#: 4

ATTN: Luke Thompson

Test Start: 2015.05.18 @ 15:09:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	M 100m	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

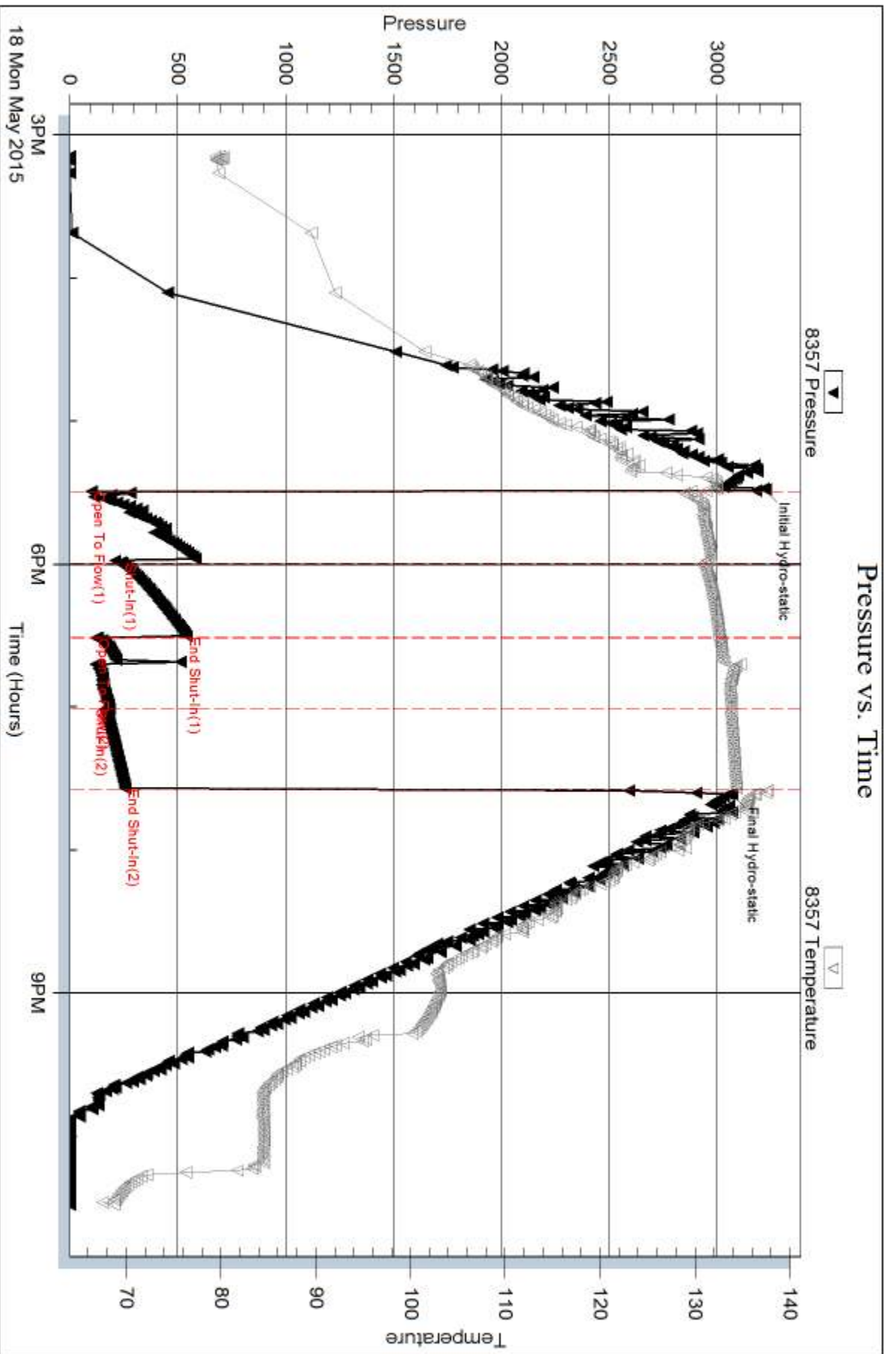
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

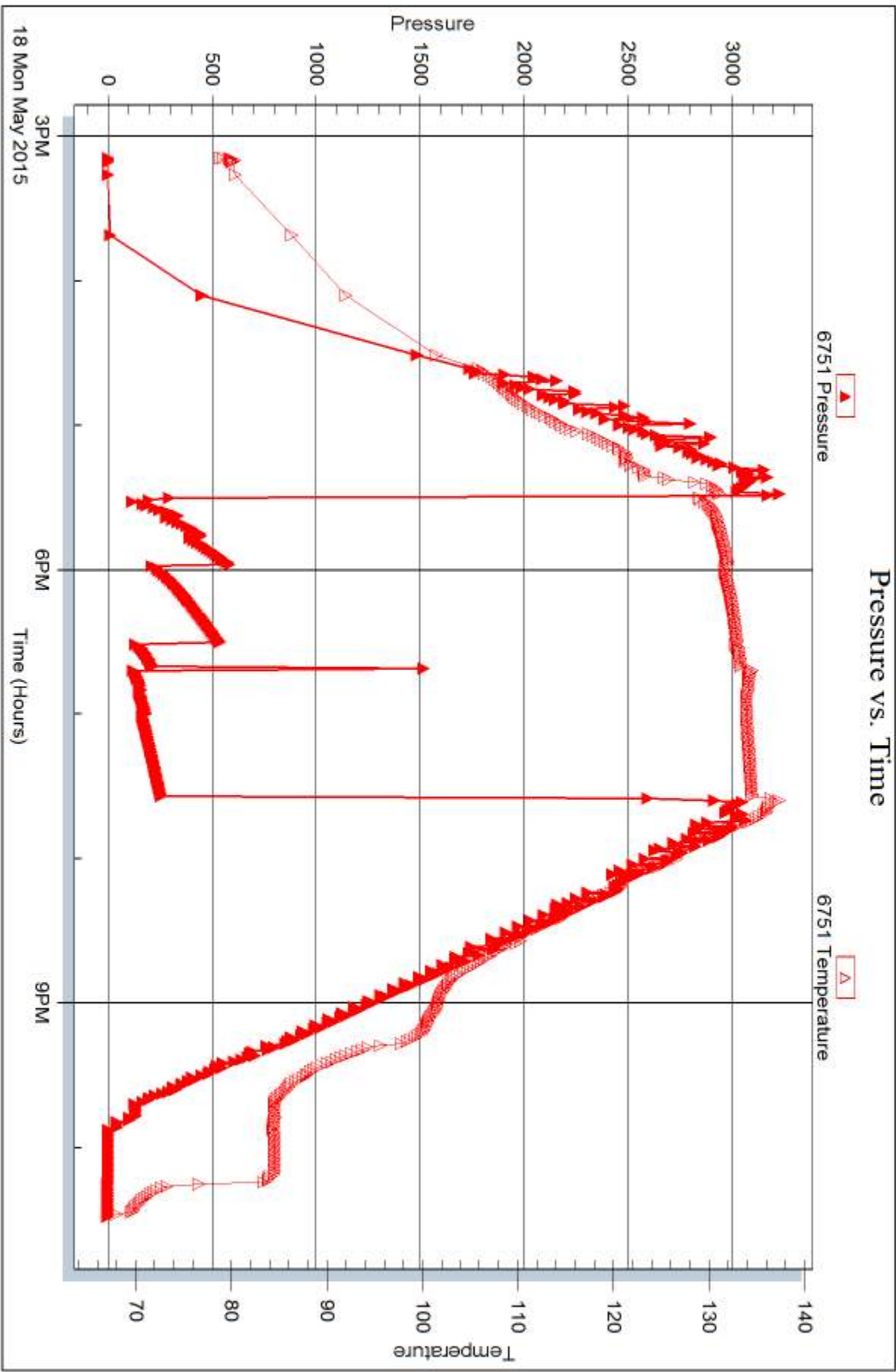


Serial #: 6751

Outside Palmer Oil, Inc

Hiebsch #7-1

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 61685

Printed: 2015.05.22 @ 08:25:20



DRILL STEM TEST REPORT

Prepared For: **Palmer Oil, Inc**

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Hiebsch #7-1

S7-34s-32w Seward,KS

Start Date: 2015.05.20 @ 17:00:00

End Date: 2015.05.21 @ 01:20:30

Job Ticket #: 61686 DST #: 5

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

Printed: 2015.05.22 @ 08:24:21



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61686

DST#: 5

ATTN: Luke Thompson

Test Start: 2015.05.20 @ 17:00:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:45:20

Time Test Ended: 01:20:30

Test Type: Conventional Straddle (Reset)

Tester: Chuck Smith

Unit No: 61

Interval: 6564.00 ft (KB) To 6600.00 ft (KB) (TVD)

Reference Elevations: 2823.00 ft (KB)

Total Depth: 6645.00 ft (KB) (TVD)

2812.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8357

Inside

Press@RunDepth: 89.00 psig @ 6569.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.05.20

End Date: 2015.05.21

Last Calib.: 2015.05.21

Start Time: 17:00:02

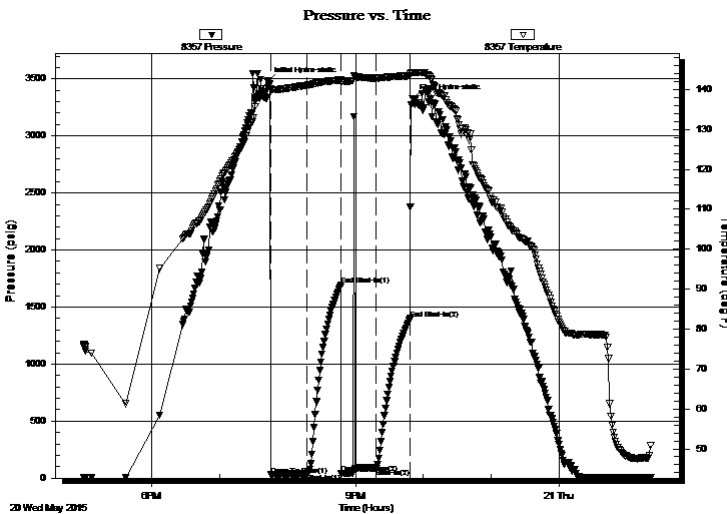
End Time: 01:20:30

Time On Btm: 2015.05.20 @ 19:42:40

Time Off Btm: 2015.05.20 @ 21:50:20

TEST COMMENT: 30- 1/2" Blow receded to a weak surface blow .
30- No return.
30- No blow , flushed tool, lost 10' of mud, surge died @ 20 min.
30- No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3474.00	140.43	Initial Hydro-static
3	28.82	140.09	Open To Flow (1)
35	37.87	141.03	Shut-In(1)
65	1692.20	142.36	End Shut-In(1)
65	41.23	141.80	Open To Flow (2)
96	89.00	142.82	Shut-In(2)
126	1398.59	143.42	End Shut-In(2)
128	3327.91	144.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	M 100m No oil spots	0.59

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

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

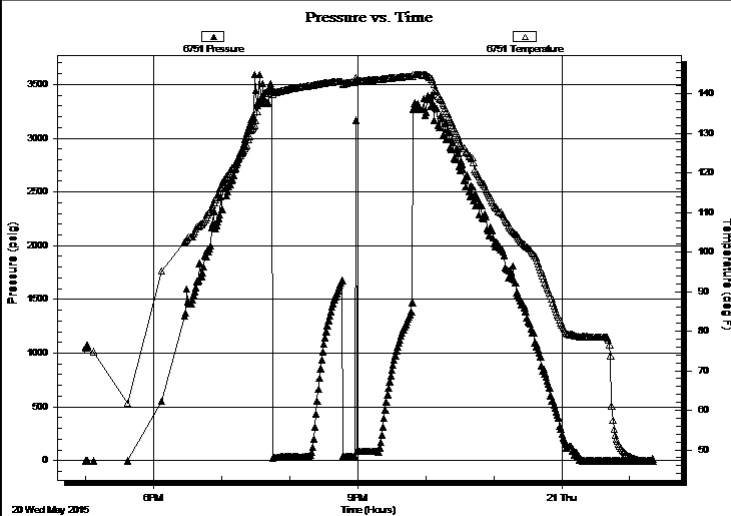
S7-34s-32w Seward,KS
Hiebsch #7-1
Job Ticket: 61686 **DST#: 5**
Test Start: 2015.05.20 @ 17:00:00

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:45:20
Time Test Ended: 01:20:30
Interval: 6564.00 ft (KB) To 6600.00 ft (KB) (TVD)
Total Depth: 6645.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Straddle (Reset)
Tester: Chuck Smith
Unit No: 61
Reference Elevations: 2823.00 ft (KB)
2812.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6751 Outside
Press@RunDepth: psig @ 6569.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.05.20 End Date: 2015.05.21 Last Calib.: 2015.05.21
Start Time: 16:59:52 End Time: 01:20:20 Time On Btm:
Time Off Btm:

TEST COMMENT: 30- 1/2" Blow receded to a weak surface blow.
30- No return.
30- No blow, flushed tool, lost 10' of mud, surge died @ 20 min.
30- No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	M 100m No oil spots	0.59

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, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61686

DST#: 5

ATTN: Luke Thompson

Test Start: 2015.05.20 @ 17:00:00

Tool Information

Drill Pipe:	Length: 6304.00 ft	Diameter: 3.80 inches	Volume: 88.43 bbl	Tool Weight: 2500.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 125000.0 lb
			<u>Total Volume: 89.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.50 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	6564.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	6600.00 ft			
Interval between Packers:	36.00 ft			
Tool Length:	107.50 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			6537.50	
Shut In Tool	5.00			6542.50	
Hydraulic tool	5.00			6547.50	
Jars	5.00			6552.50	
Safety Joint	2.50			6555.00	
Packer	5.00			6560.00	27.50 Bottom Of Top Packer
Packer	4.00			6564.00	
Stubb	1.00			6565.00	
Perforations	4.00			6569.00	
Recorder	0.00	8357	Inside	6569.00	
Recorder	0.00	6751	Outside	6569.00	
Perforations	27.00			6596.00	
Blank Off Sub	1.00			6597.00	
topof s pack	3.00			6600.00	36.00 Tool Interval
Packer	0.00			6600.00	
Stubb	1.00			6601.00	
Perforations	7.00			6608.00	
Change Over Sub	1.00			6609.00	
Recorder	0.00	8645	Below	6609.00	
Drill Pipe	31.00			6640.00	
Change Over Sub	1.00			6641.00	
Bullnose	3.00			6644.00	44.00 Bottom Packers & Anchor

Total Tool Length: 107.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palmer Oil, Inc

S7-34s-32w Seward,KS

PO Box 399
Garden City, KS 67846

Hiebsch #7-1

Job Ticket: 61686

DST#: 5

ATTN: Luke Thompson

Test Start: 2015.05.20 @ 17:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	M 100m No oil spots	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

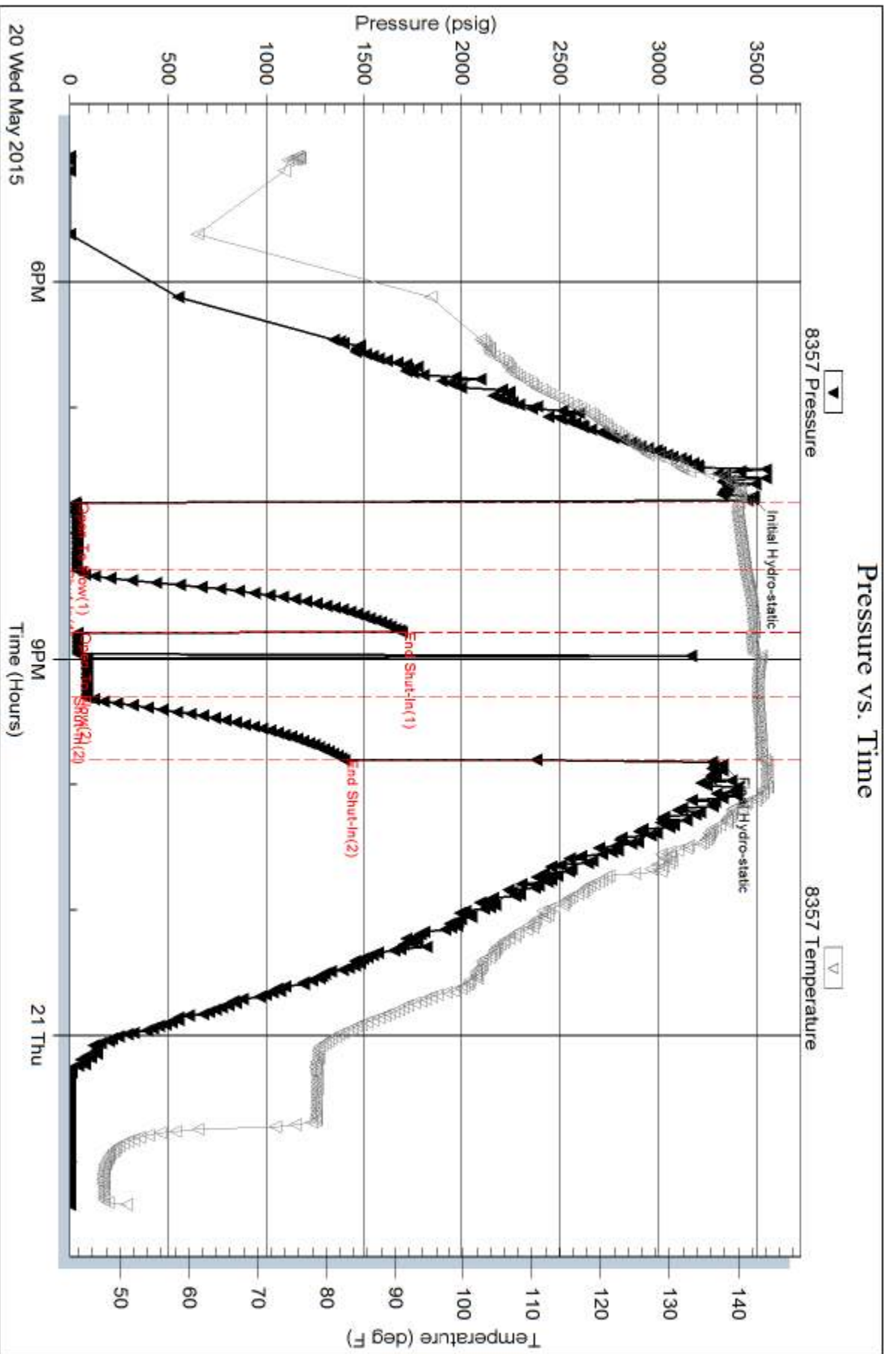
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

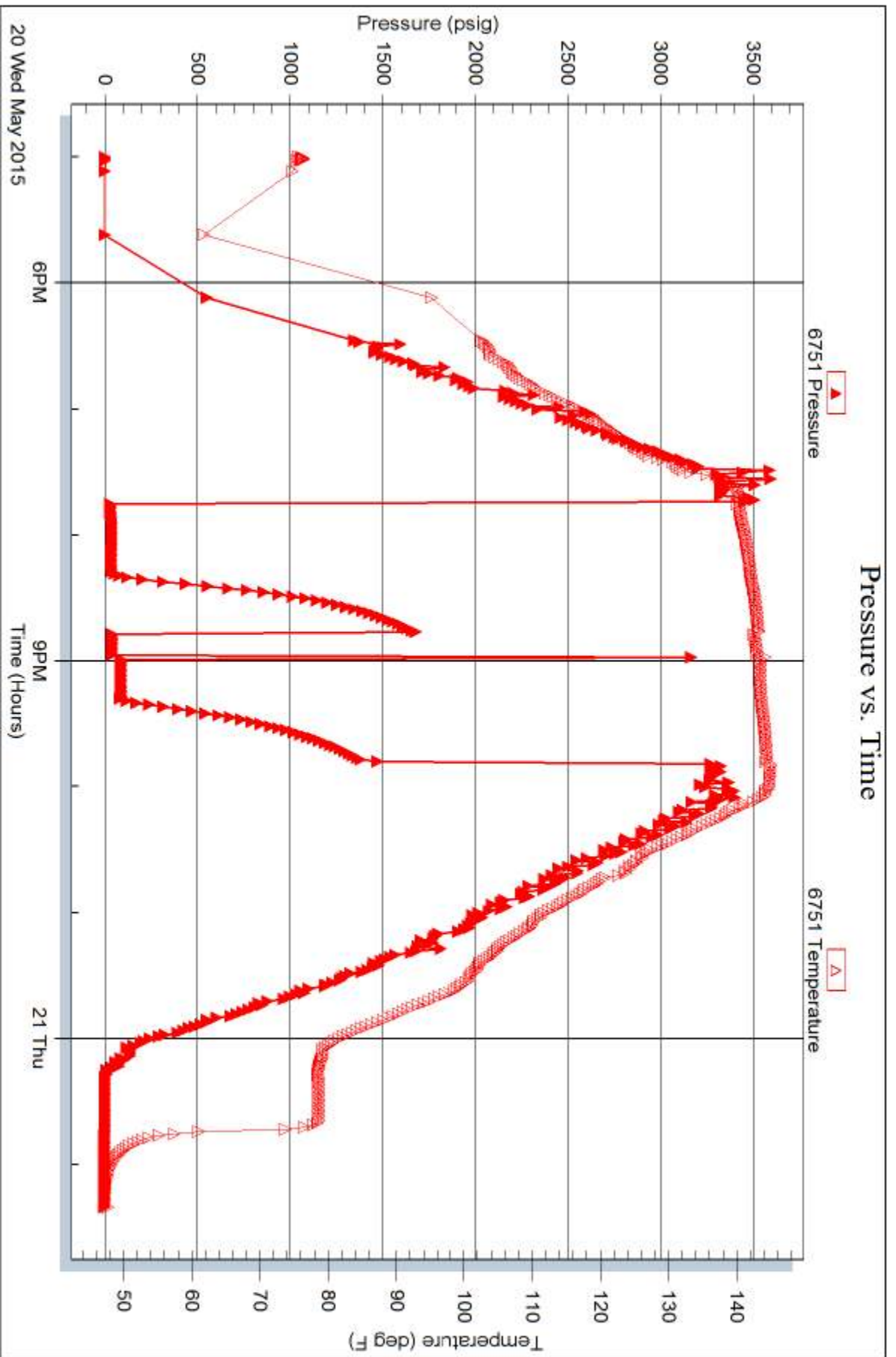


Serial #: 6751

Outside Palmer Oil, Inc

Hiebsch #7-1

DST Test Number: 5

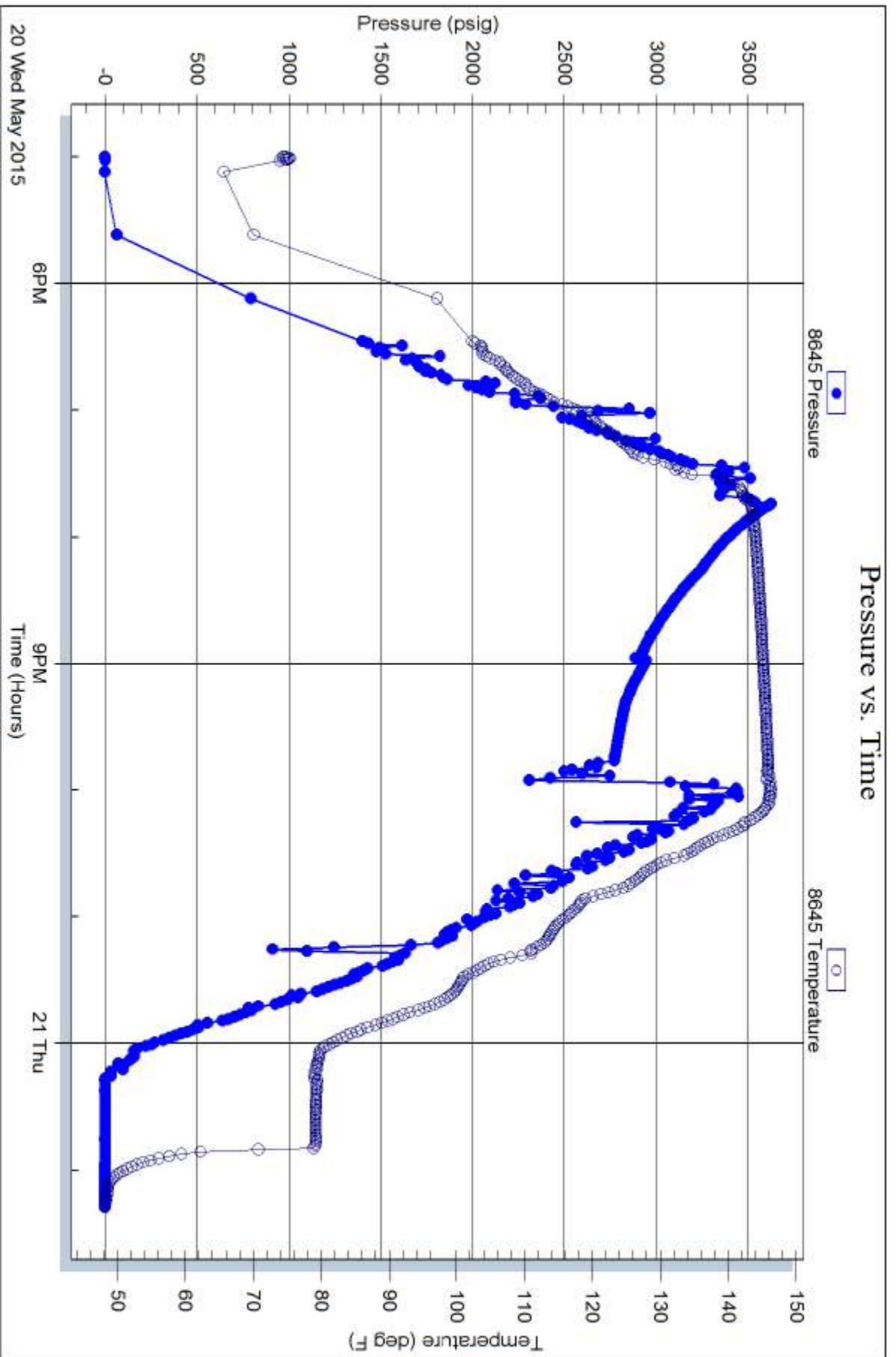


Serial #: 8645

Below (Stratton) Oil, Inc

Hiebsch #7-1

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 61686

Printed: 2015.05.22 @ 08:24:22



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61681

Well Name & No. Hiebsch #7-1 Test No. 1 Date 5-11-15
 Company Palmer Oil, Inc. Elevation 2823 KB 2812 GL
 Address POB 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 7 Twp. 34s Rge. 32w Co. Seward State KS

Interval Tested 4448-4514 Zone Tested Toronto
 Anchor Length 66 Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth _____ Drill Collars Run _____ Vis _____
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL _____
 Total Depth _____ Chlorides _____ ppm System LCM _____
 Blow Description Rig was stuck during the short trip about 12 stands off bottom.
Oil was on order when I left location

Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic N/A Test _____ T-On Location 5:00
 (B) First Initial Flow _____ Jars _____ T-Started X
 (C) First Final Flow _____ Safety Joint _____ T-Open _____
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled _____
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out _____
 (F) Second Final Flow _____ Mileage 214RT 68 Comments Left location @ 9:00
 (G) Final Shut-In _____ Sampler rig got stuck Corndog ended up running
 (H) Final Hydrostatic _____ Straddle _____ dst #1
 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 68
 Accessibility _____ MP/DST Disc't _____
 Sub Total 68

Approved By _____ Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58814

Well Name & No. Hlebsch #7-1 Test No. 1 Date 5-11-15
 Company Palmer Oil, Inc Elevation 2823 KB 2812 GL
 Address 3118 Cummings Rd - Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 7 Twp. 34S Rge. 32-W Co. Seward State Ks

Interval Tested 4448-4514 Zone Tested toronto
 Anchor Length 66' Drill Pipe Run 4703 Mud Wt. 9.30
 Top Packer Depth 4444 Drill Collars Run 240 Vis 57
 Bottom Packer Depth 4448 Wt. Pipe Run 8 WL 7-70
 Total Depth 4514 Chlorides 2700 ppm System LCM ⊗ ⊗ #3

Blow Description IFE Bob. in 1 min 15 sec. G.T.S. 10 min - Too small to gauge
IFE: Bled off in 2 min - weak surface blowback - Built to 2 in. Return
FF 2 in immediately - Bob & G.T.S. in 3 min. - Too small to gauge
FSI: Bled off in 3 min. - weak surface blowback - Built to 1/2 in. Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>6' m cw</u>	<u>5</u>		<u>75</u>	<u>20</u>
<u>214</u>	<u>0' d GCM</u>	<u>15</u>	<u>50</u>		<u>80</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>G.T.S.</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 334 BHT 115 Gravity — API RW .60 @ 53 °F Chlorides 225,000 ppm

(A) Initial Hydrostatic <u>2184</u>	<input checked="" type="checkbox"/> Test <u>950</u>	T-On Location <u>20:15</u>
(B) First Initial Flow <u>43</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:15</u>
(C) First Final Flow <u>97</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:58</u>
(D) Initial Shut-In <u>930</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>02:58</u>
(E) Second Initial Flow <u>118</u>	<input checked="" type="checkbox"/> Hourly Standby <u>NIC</u>	T-Out <u>05:57</u>
(F) Second Final Flow <u>162</u>	<input checked="" type="checkbox"/> Mileage <u>78 RIT x 2</u>	Comments <u>10 added on 5/13/15</u>
(G) Final Shut-In <u>910</u>	<input type="checkbox"/> Sampler <u>68</u>	<u>@ 11:30</u>
(H) Final Hydrostatic <u>2125</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

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

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1543

Ruined Packer 320
 Extra Copies
 Sub Total 320
 Total 1863
 MP/DST Disc't

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61682

Well Name & No. Hiebsch #7-1 Test No. 2 Date 5-16-15
 Company Palmer Oil, Inc. Elevation 2823 KB 2812 GL
 Address POB 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 7 Twp. 34s Rge. 32w Co. Seward State KS

Interval Tested 5771 - 6000 Zone Tested Morrow
 Anchor Length 229 Drill Pipe Run 5520 Mud Wt. 9.3
 Top Packer Depth 5767 Drill Collars Run 240 Vis 70
 Bottom Packer Depth 6000-5771 Wt. Pipe Run 0 WL 9.6
 Total Depth 6000 Chlorides 1900 ppm System LCM 6"
 Blow Description 2" Blow.
No return.
Weak surface blow died @ 5 min.
No return

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>70</u>	Feet of <u>M with a couple spots of oil</u>				<u>100%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70 BHT 127 Gravity - API RW @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>3090</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>6:43</u>
(B) First Initial Flow <u>227</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>10:09</u>
(C) First Final Flow <u>523</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:14</u>
(D) Initial Shut-In <u>594</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>15:15</u>
(E) Second Initial Flow <u>294</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:07</u>
(F) Second Final Flow <u>432</u>	<input checked="" type="checkbox"/> Mileage <u>68</u>	Comments
(G) Final Shut-In <u>366</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2865</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1443</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
Final Shut-In <u>30</u>	Sub Total <u>1443</u>	

Approved By _____ Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61684

Well Name & No. Hiebsch #7-1 Test No. 3 Date 5-18-15
 Company Palmer Oil, Inc. Elevation 2823 KB 2812 GL
 Address POB 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 7 Twp. 34s Rge. 32w Co. Seward State KS

Interval Tested 6183-6334 Zone Tested Chester
 Anchor Length 151 Drill Pipe Run 5932 Mud Wt. 9.5
 Top Packer Depth 6179 Drill Collars Run 240 Vis 57
 Bottom Packer Depth 6183 Wt. Pipe Run 0 WL 11.2
 Total Depth 6334 Chlorides 2300 ppm System LCM 4*

Blow Description Packer seat failed, re-set packer again, packer seat failed, pulled tool.
11" of bottom rubber are in the hole. Top packer rubber was split circumferentially.

Rec	Feet of	%gas	%oil	%water	%mud

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

(A) Initial Hydrostatic _____ Test Mis-run 1150 T-On Location 7:50
 (B) First Initial Flow _____ Jars 250 T-Started 8:02
 (C) First Final Flow N/A Safety Joint 75 T-Open 11:13
 (D) Initial Shut-In _____ Circ Sub NIC T-Pulled 11:17
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 14:38
 (F) Second Final Flow _____ Mileage 68 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 _____ Shale Packer _____ Ruined Packer x2 640
 Initial Open N/A Extra Packer _____ Extra Copies _____
 Initial Shut-In _____ Extra Recorder _____ Sub Total 640+58.33
 Final Flow _____ Day Standby 1.5d 1.75h Total 2241.33
 Final Shut-In _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 1543

Approved By _____ Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61685

Well Name & No. Hiebsch #7-1 Test No. 4 Date 5-18-15
 Company Palmer Oil, Inc. Elevation 2823 KB 2812 GL
 Address POB 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 7 Twp. 34s Rge. 32w Co. Seward State KS

Interval Tested 6082-6334 Zone Tested Chester
 Anchor Length 252 Drill Pipe Run 5838 Mud Wt. 9.6
 Top Packer Depth 6078 Drill Collars Run 240 Vis 53
 Bottom Packer Depth 6082 Wt. Pipe Run 0 WL 9.2
 Total Depth 6334 Chlorides 3200 ppm System LCM 4-5"
 Blow Description 1 1/2" Blow receded to 1".
No return.
No blow, Flushed tool, surge died
No return

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>120</u>	Feet of <u>M</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 120 BHT 134 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>3216</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>14:45</u>
(B) First Initial Flow <u>100</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>15:09</u>
(C) First Final Flow <u>243</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>17:30</u>
(D) Initial Shut-In <u>542</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>19:34</u>
(E) Second Initial Flow <u>122</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:29</u>
(F) Second Final Flow <u>184</u>	<input checked="" type="checkbox"/> Mileage <u>NIC stayed</u>	Comments
(G) Final Shut-In <u>258</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>3069</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1475</u>
Final Shut-In <u>33</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1475</u>	

Approved By

Our Representative

Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61686

Well Name & No. Hiebsch #7-1 Test No. 5 Date 5-20-15
 Company Palmer Oil, Inc. Elevation 2823 KB 2812 GL
 Address POB 399 Garden City, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Duke #5
 Location: Sec. 7 Twp. 3 1/2 Rge. 32W Co. Seward State KS

Interval Tested 6564-6600 Zone Tested Mississippian
 Anchor Length 36 Drill Pipe Run 6304 Mud Wt. 9.55
 Top Packer Depth 6560 Drill Collars Run 240 Vis 50
 Bottom Packer Depth 6600 Wt. Pipe Run 0 WL 9.4
 Total Depth 6645 LTD Chlorides 1900 ppm System LCM 4"
 Blow Description 1/2" Blow receded to weak surface blow.
No return.
No blow, flushed tool, lost 10' of mud, surge died @ 20 min.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>120</u>	Feet of <u>M</u>			%water <u>100</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 120 BHT 143 Gravity — API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>3474</u>	<input checked="" type="checkbox"/> Test <u>1350</u>	T-On Location <u>16:00</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>19:00</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:45</u>
(D) Initial Shut-In <u>1692</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>21:48</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1:21</u>
(F) Second Final Flow <u>89</u>	<input checked="" type="checkbox"/> Mileage <u>68</u>	Comments <u>Wait on loggers .7</u>
(G) Final Shut-In <u>1399</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>3328</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input checked="" type="checkbox"/> Ruined Shale Packer <u>350</u>
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>350+183.33</u>
Final Flow <u>30</u>	<input checked="" type="checkbox"/> Day Standby <u>1.5d 5.5h</u>	Total <u>3126.33</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2593</u>	

Approved By _____ Our Representative Chuck Smith

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Geological Report

Palmer Oil, Inc.

Hiebsch #7-1

575' FSL & 838' FEL

Sec 7, T34s, R32w

Seward County, Kansas



Palmer Oil, Inc.

General Data

Well Data: Palmer Oil, Inc.
Hiebsch #7-1
575' FSL & 838' FEL
Sec. 7, T34s, R32w
Seward County, Kansas
API # 15-175-22236-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: May 5, 2015

Completion Date: May 22, 2015

Elevation 2811' G.L.
2823' K.B.

Directions: From the East side of Liberal, KS at the intersection of Hwy 83 and Hwy 54 – Now go 4 miles NE on Hwy 54 – Now go 1.5 mile North on Rd. M to the SW corner of section 7-34s-32w – Now go 0.8 mile East on Rd. 8 to ingress stake North into.

Casing: 1703' 8 5/8" #24 Surface Casing

Samples: 4200' to RTD 10' Wet & Dry

Drilling Time: 2500'-3000' & 4200' to RTD

Electric Logs: Pioneer Energy Services "D. Kerr"
Full Sweep

Drillstem Tests: One-Trilobite Testing "Cornelio Landa III"
Four-Trilobite Testing "Chuck Smith"

Problems: Stuck for 12 hours on first short trip @ 3625'

Formation Tops

Hiebsch #7-1

Sec. 7, T34s, R32w

575' FSL & 838' FEL

Anhydrite	1584' +1239
Base	1654' +1169
Heebner	4366' -1543
Lansing	4518' -1695
BKC	5203' -2380
Marmaton	5214' -2391
Cherokee	5418' -2595
Morrow	5782' -2959
Keyes	5971' -3148
Chester Lime	6130' -3307
St. Gen	6368' -3543
St. Louis	6430' -3607
RTD	6650' -3827
LTD	6645' -3822

Sample Zone Descriptions

Lansing (4980', -2156): Covered in DST #1
Limestone, tan, fine crystalline, occasionally sucrosic, scattered green fluorescence, slow milky cut. Gas 670 units hotwire.

Morrow (5980', -3157): Covered in DST #2
Sandstone, tan/grey/white, glauconitic, medium grain, sub round, poor/fair cementation, poor sorting, slight odor, NSFO. Gas 350 units hotwire.

Chester (6334, -3511): Covered in DST #3 & 4
Sandstone, brown, fine grained, sub round, well sorted, fair cementation, poor inter-crystalline porosity, slight odor, bright green fluorescence, fair flush cut, excellent flash cut when broke. Gas 80 units hotwire.

St. Louis (6580', -3757): Covered in DST #5
Limestone, grey, fine crystalline, scattered green fluorescence, slow milky cut, no visible porosity, poor show of free oil. Gas 175 units hotwire.

Drill Stem Tests
Trilobite Testing
“Cornelio Landa III”

DST #1

Toronto

Interval (4448' - 4514') Anchor Length 66'

IHP - 2184 #

IFP - 30" – BOB 1 ½ min GTS 10 min 43-97 #

ISI - 45" – 2" return 930 #

FFP - 45" – BOB & GTS 3 min 118-162 #

FSIP - 60" – 1 ½" return 910 #

FHP - 2125 #

BHT - 115° F

Recovery: 214' OGCM (15% Gas & 5% Oil)

120' GMCW (5% Gas)

Trilobite Testing
“Chuck Smith”

DST #2

Morrow

Interval (5771' – 6000') Anchor Length 229'

IHP - 3090 #

IFP - 30" – Built to 2" 227-523 #

ISI - 30" – no return 594 #

FFP - 30" – Weak surface blow died in 5 min 294-432 #

FSIP - 30" – no return 366 #

FHP - 2865 #

BHT - 130° F

Recovery: 70' M with a few oil spots

DST #3

Chester

Interval (6183' – 6334') Anchor Length 151'

Details: N/A Packer Failure

Packer split circumferentially leaving 11" of rubber in hole

DST #4**Chester**

Interval (6082' – 6334') Anchor Length 252'

IHP - 3216 #

IFP - 30" – 1 ½" blow receded to 1" 100-243#

ISI - 30" – No Return 542#

FFP - 30" – No Blow Flush surged and died 122-184 #

FSIP - 30" – No Return 258#

FHP - 3069 #

BHT - 136 ° F

Recovery: 120' M**DST #5****St Louis**

Interval (6564' – 6600') Anchor Length 36'

IHP - 3474 #

IFP - 30" – ½" blow receded to weak surface blow 29-38#

ISI - 30" – No Return 1692#

FFP - 30" – No Blow Flush surged and died in 20 min 41-89 #

FSIP - 30" – No Return 1399#

FHP - 3328 #

BHT - 144 ° F

Recovery: 120' M

Structural Comparison

	Palmer Oil, Inc. Hiebsch #7-1 Sec. 7, T34s, R32w 575' FSL & 838' FEL		EOG Resources Hiebsch #7-1 Sec. 7, T34s, R32w 1320' FNL & 1320' FEL		Anadarko Petroleum Corp. Condit 3-A Sec. 7, T34s, R32w 660' FSL & 1980' FEL
<u>Formation</u>					
Heebner	4366' -1543	+8	4385' -1551	-5	4369' -1538
Lansing	4518' -1695	-1	4528' -1694	-3	4523' -1692
BKC	5203' -2380	-2	5212' -2378	-9	5202' -2371
Marmaton	5214' -2391	-2	5223' -2389	-6	5216' -2385
Cherokee	5418' -2595	-3	5426' -2592	-2	5424' -2593
Morrow	5782' -2959	-11	5782' -2948	-6	5784' -2953
Keyes	5971' -3148	+1	5983' -3149	+11	5990' -3159
Chester Lm	6130' -3307	-28	6113' -3279	-1	6137' -3306
St. Gen	6368' -3543	-45	6332' -3498	-2	6372' -3541
St. Louis	6430' -3607	-39	6402' -3568	-8	6439' -3599

Summary

The location for the Hiebsch #7-1 well was found via 3-D seismic survey. The new well ran structurally as expected. Five drill stem tests were conducted, none of which recovered commercial quantities of gas and oil. After all the gathered data had been examined, the decision was made to plug and abandon the Hiebsch #7-1 well.

Respectfully Submitted,

Lukas Thompson
Palmer Oil, Inc.