

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1254354  
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: \_\_\_\_\_

1254354

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		

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	Rozelle 1-3
Doc ID	1254354

All Electric Logs Run

Induction
Porosity
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Palmer Oil, Inc.
Well Name	Rozelle 1-3
Doc ID	1254354

Tops

Name	Top	Datum
Anhy	2195	+629
B/Anhy	2300	+524
Heebner	4326	-1502
Lansing	4460	-1636
B/KC	5134	-2310
Marmaton	5143	-2319
Cherokee	5366	-2542
Morrow	5722	-2898
Keyes	5920	-3096
Chester Lime	6038	-3214
St.Gen	6268	-3444
St.Louis	6330	-3506



# ALLIED OIL & GAS SERVICES, LLC 065269

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Liberal, ks

DATE <u>4-11-15</u>	SEC. <u>1</u>	TWP. <u>34s</u>	RANGE <u>33w</u>	CALLED OUT	ON LOCATION <u>8:00 pm</u>	JOB START <u>11:16 pm</u>	JOB FINISH <u>12:55 am</u>
LEASE <u>Rozelle</u>		WELL # <u>1-3</u>	LOCATION <u>Liberal, ks</u>		COUNTY <u>Seward</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>Duke 5</u>	OWNER <u>Palmer Oil</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>1715</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>1702</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>1500 PSI</u>	MINIMUM
MEAS. LINE	SHOE JOINT <u>42.65</u>
CEMENT LEFT IN CSG. <u>42.65</u>	
PERFS.	
DISPLACEMENT <u>106 bbls</u>	

**EQUIPMENT**

PUMP TRUCK # <u>530-654</u>	CEMENTER <u>Edgar Rodriguez</u>
	HELPER <u>Alex Ayala</u>
BULK TRUCK # <u>774-744</u>	DRIVER <u>Jose Garcia</u>
BULK TRUCK # <u>705-842</u>	DRIVER <u>Ramon Escamega</u>

CEMENT AMOUNT ORDERED <u>700 SKS ALWC Class A</u>	
<u>200 SKS Class A Common</u>	
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
<u>ALWC - Class A 700 SKS</u>	@ <u>19.88</u> <u>13,916.00</u>
<u>Calcium chloride 1827 #</u>	@ <u>1.10</u> <u>2009.70</u>
<u>Plowseed 350 #</u>	@ <u>2.97</u> <u>1039.50</u>
<u>Class A Common 200 SKS</u>	@ <u>17.90</u> <u>3580.00</u>
<u>Calcium chloride 564 #</u>	@ <u>1.10</u> <u>620.40</u>
<u>Hoseoil 50 #</u>	@ <u>2.97</u> <u>148.50</u>
	@
	@
	@

**REMARKS:**

8525.64 / 40% TOTAL 21314.10

**SERVICE**

DEPTH OF JOB	
PUMP TRUCK CHARGE <u>1</u>	<u>2213.75</u> <u>2213.75</u>
<u>Light 20 mi @ 4.40</u>	<u>88.00</u>
<u>Heavy 20 mi @ 7.70</u>	<u>154.00</u>
MILEAGE	
MANIFOLD <u>1</u>	@ <u>275.00</u> <u>275.00</u>
<u>Handling 1034.91 ft<sup>3</sup></u>	@ <u>2.48</u> <u>2566.58</u>
<u>Drayage 861.45 Ton</u>	@ <u>2.75</u> <u>2368.99</u>
<u>Additional Hrs 1</u>	<u>440.00</u> <u>440.00</u>
<u>3242.52 / 40%</u>	TOTAL <u>8106.32</u>

CHARGE TO: Palmer Oil Inc.  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

<u>Guide Shoe 1</u>	@ <u>460.00</u> <u>460.00</u>
<u>API Insert Float Valve 1</u>	@ <u>447.00</u> <u>447.00</u>
<u>Cement Basket 1</u>	@ <u>560.00</u> <u>560.00</u>
<u>Centralizer 3</u>	@ <u>75.00</u> <u>225.00</u>
<u>Top Rubber Plug 1</u>	@ <u>131.00</u> <u>131.00</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.

SALES TAX (if Any) \_\_\_\_\_  
TOTAL CHARGES 31,243.42  
DISCOUNT 12,497.37 / 40% IF PAID IN 30 DAYS

PRINTED NAME KENNETH M'GOIKE  
SIGNATURE Kenneth M'Goike

NET = 18,746.05



CHARGE TO: AMERICAN WARRIOR  
 ADDRESS: PALMER OIL  
 CITY, STATE, ZIP CODE:

TICKET 28506

PAGE 1 OF 2

SERVICE LOCATIONS: 1. NESS CITY, KS.

WELL/PROJECT NO. ROZELLE 1-3 LEASE SEWARD COUNTY/PARISH KS. CITY LIBERAL, KS. DATE 24 APR 15 OWNER

TICKET TYPE  SERVICE  SALES CONTRACTOR DUKE DRUG #5 RIG NAME/NO. SHIPPED VIA DELIVERED TO ORDER NO.

WELL TYPE OIL WELL CATEGORY DEVELOPMENT JOB PURPOSE 5 1/2 LONGSTRING WELL PERMIT NO. WELL LOCATION 4 N/E, 2 1/2 N, 4 W, NINTO

REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE # 115	130		mi		5.00	650.00
578					Pump CHARGE	1		JOB		1250.00	1250.00
402					CENTRALIZERS	10		EA.		60.00	600.00
403					CEMENT BASKETS	2		EA.		250.00	500.00
406					LATCH DOWN PLUG & BAFFLE	1		EA.		225.00	225.00
407					INSERT FLOAT SHOE w/FILL	1		EA.		300.00	300.00
281					MUD FLUSH	5		gal		1.25	6.25.00
221					LIQUID KCL	2		gal		25.00	50.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x Rush Wheeler  
 DATE SIGNED 25 APR 15 TIME SIGNED 0730  A.M.  P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE		
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				PAGE TOTAL	1 4200.18 2 6016.18
WE UNDERSTOOD AND MET YOUR NEEDS?				sub total	10216.18
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Seward TAX 7.4%	509.40
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL	10,725.58
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature] APPROVAL

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

PALMER OIL

TICKET No. 28506

CUSTOMER ~~AMERICAN WARRIOR~~

WELL ROZELLE 1-3

DATE 24 APR 15 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
276						FLOCELE	60	lbs			2 <sup>25</sup>	135 <sup>00</sup>
292						HALAD 322	100	lbs			8 <sup>00</sup>	800 <sup>00</sup>
290						D-AR	2 <sup>1</sup> / <sub>2</sub>	sq			42 <sup>00</sup>	105 <sup>00</sup>
330						SMD CEMENT	225	sq			15 <sup>25</sup>	3543 <sup>75</sup>
581						SERVICE CHARGE					CUBIC FEET 225 <sup>sq</sup>	1 <sup>50</sup> 337 <sup>50</sup>
583						MILEAGE CHARGE	TOTAL WEIGHT 22460	LOADED MILES 130			TON MILES 1459.4	7 <sup>5</sup> 1094 <sup>93</sup>

CONTINUATION TOTAL 6016<sup>18</sup>



# JOB LOG PALMER OIL

# SWIFT Services, Inc.

DATE 24 APR 15 PAGE NO.

CUSTOMER ~~AMERICAN WARRIOR~~ WELL NO. LEASE ROZELLE 1-3 JOB TYPE 5 1/2 LONGSTRING TICKET NO. 28506

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2320							ON LOCATION
	0255							START PIPE 5 1/2-17# RID @ 6500 SET @ 6485 SHOE JT. 35.75 CENTRALIZERS 1,2,3,4,6,8,10,12,14,16, BASKET. 7,17
	0525							DROP BALL - CIRCULATE.
	0556	6	12		✓		400	Pump 500 gal MUD FLUSH
		6	20		✓		400	Pump 20 BBL KCL SPACER
	0603		7.5		✓			PLUG RH - 30 SX MH - 20 SX
	0609	4	46		✓			MIX 175 SX SMD
	0626							WASH OUT PUMP & LINES.
	0630	6 1/2			✓			START DISPLACING PLUG
	0654	8	150		✓		1900	PLUG DOWN - LATCH PLUG IN.
	0656				✓			RELEASE PSI - DRY
	0658							WASH TRUCK
	0730							JOB COMPLETE
								THANKS # 115
								JASON COLE PRESTON



## DRILL STEM TEST REPORT

Prepared For: **Palmer Oil, Inc.**

3118 N. Cummings Rd.  
Garden City, KS 67846

ATTN: Luke Thompson

### **Rozelle #1-3**

#### **1-34s-33w Seward,KS**

Start Date: 2015.04.17 @ 09:35:00

End Date: 2015.04.17 @ 19:48:30

Job Ticket #: 58810                      DST #: 1

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

Printed: 2015.04.27 @ 09:53:37



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palmer Oil, Inc.

**1-34s-33w Seward,KS**

3118 N. Cummings Rd.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58810

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2015.04.17 @ 09:35:00

## GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:50:30

Time Test Ended: 19:48:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III

Unit No: 67

**Interval: 4950.00 ft (KB) To 5019.00 ft (KB) (TVD)**

Reference Elevations: 2824.00 ft (KB)

Total Depth: 5019.00 ft (KB) (TVD)

2813.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8968 Outside**

Press@RunDepth: 417.00 psig @ 4952.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.04.17

End Date:

2015.04.17

Last Calib.:

2015.04.17

Start Time: 09:35:05

End Time:

19:48:30

Time On Btm:

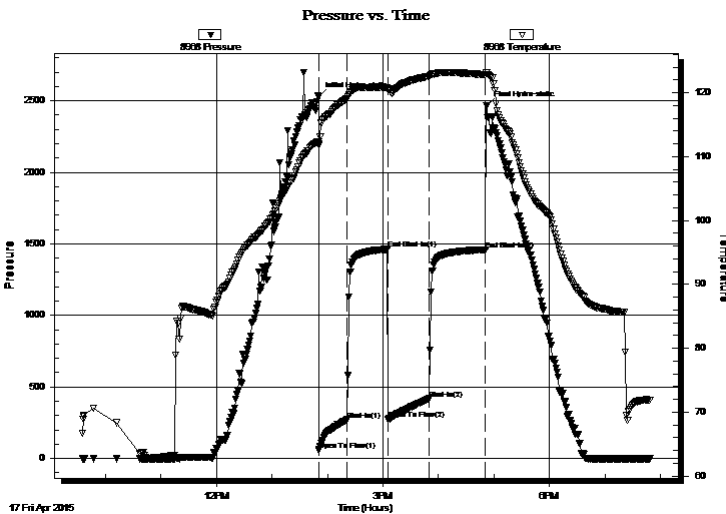
2015.04.17 @ 13:50:00

Time Off Btm:

2015.04.17 @ 16:52:00

**TEST COMMENT:** IF: BOB.in 8 min. 15 seconds  
IS: Bled off in 2 min.- No return  
FF: BOB in 15 min.  
FS: Bled off in 3 min.- No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2527.71	112.32	Initial Hydro-static
1	58.31	111.76	Open To Flow (1)
31	267.62	119.01	Shut-In(1)
75	1462.78	120.79	End Shut-In(1)
76	273.65	120.49	Open To Flow (2)
120	417.00	122.55	Shut-In(2)
181	1459.80	122.79	End Shut-In(2)
182	2466.74	123.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
693.00	G & Mcw 2g 20m 78w	7.53
240.00	Mcw 5m 95w	3.37

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palmer Oil, Inc.

**1-34s-33w Seward,KS**

3118 N. Cummings Rd.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58810

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2015.04.17 @ 09:35:00

## Tool Information

Drill Pipe:	Length: 4705.00 ft	Diameter: 3.80 inches	Volume: 66.00 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: 67.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4950.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	96.00 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			4924.00	
Shut In Tool	5.00			4929.00	
Hydraulic tool	5.00			4934.00	
Jars	5.00			4939.00	
Safety Joint	2.00			4941.00	
Packer	5.00			4946.00	27.00 Bottom Of Top Packer
Packer	4.00			4950.00	
Stubb	1.00			4951.00	
Change Over Sub	1.00			4952.00	
Recorder	0.00	8356	Inside	4952.00	
Recorder	0.00	8968	Outside	4952.00	
Drill Pipe	63.00			5015.00	
Change Over Sub	1.00			5016.00	
Bullnose	3.00			5019.00	69.00 Bottom Packers & Anchor

**Total Tool Length: 96.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palmer Oil, Inc.

**1-34s-33w Seward,KS**

3118 N. Cummings Rd.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58810

**DST#: 1**

ATTN: Luke Thompson

Test Start: 2015.04.17 @ 09:35:00

### 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:

6750 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
693.00	G & Mcw 2g 20m 78w	7.535
240.00	Mcw 5m 95w	3.367

Total Length: 933.00 ft

Total Volume: 10.902 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

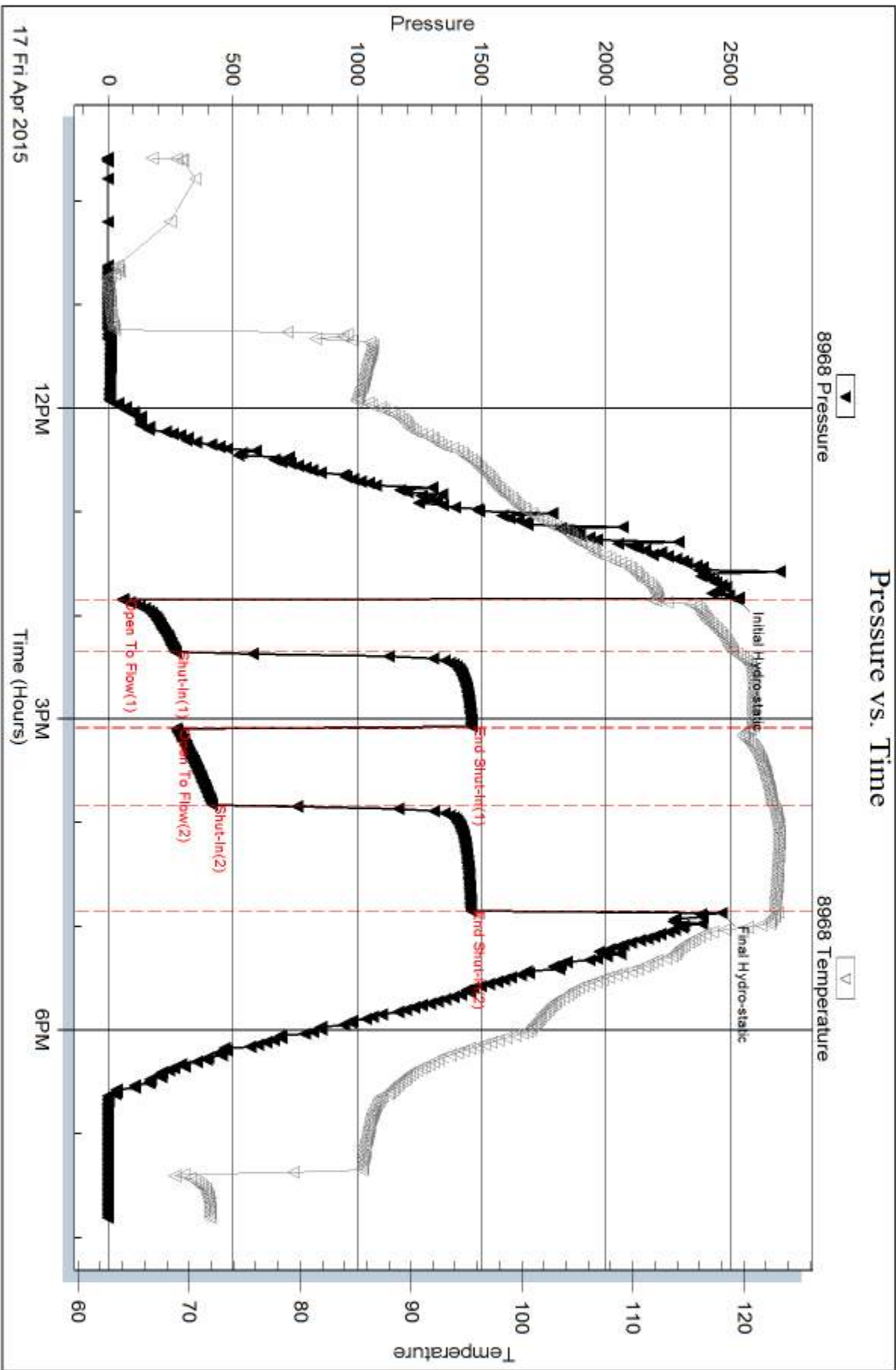
Recovery Comments:

Serial #: 8968

Outside Palmer Oil, Inc.

Rozele #1-3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58810

Printed: 2015.04.27 @ 09:53:39

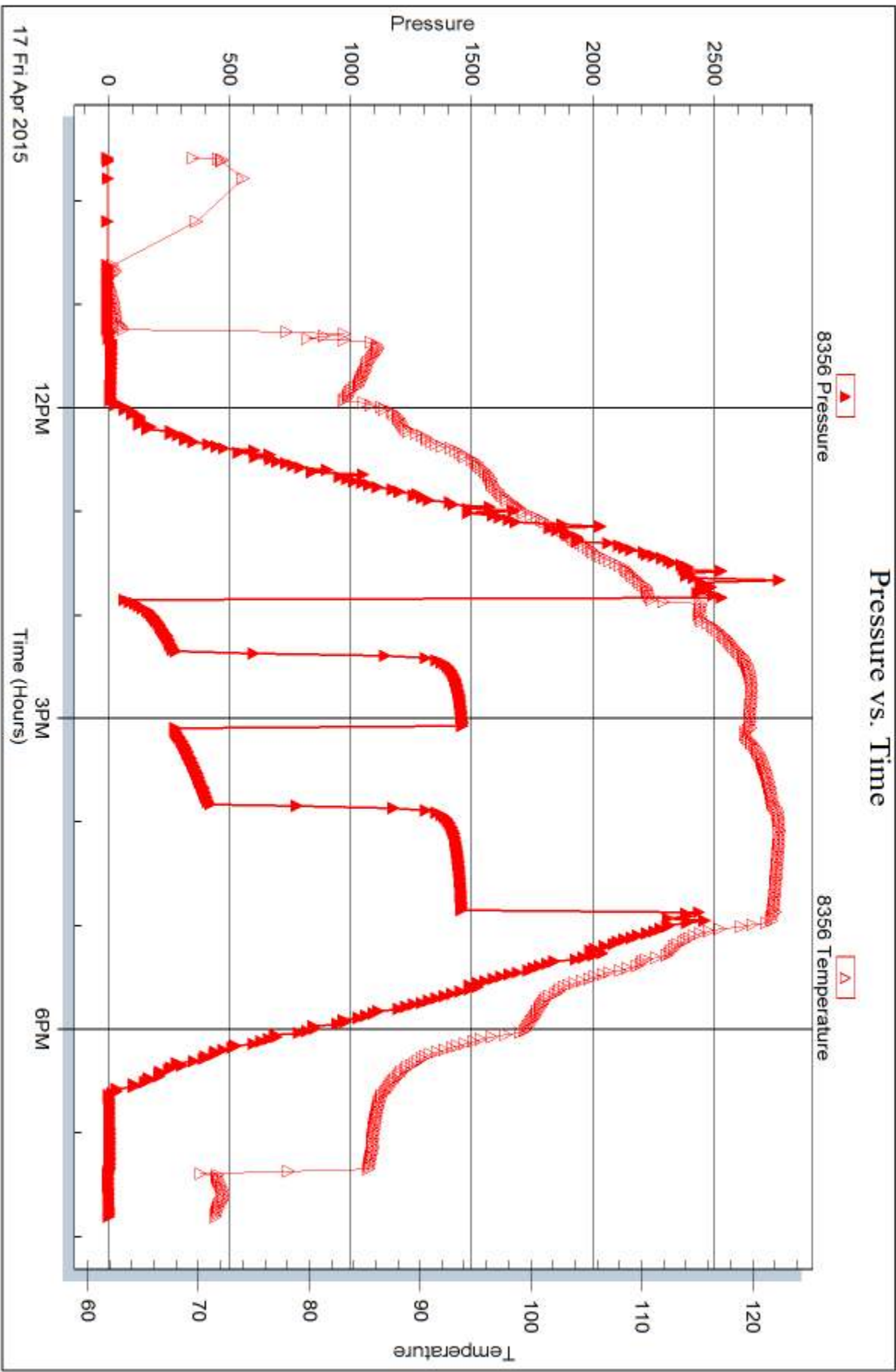
Serial #: 8356

Inside

Palmer Oil, Inc.

Rozelle #1-3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58810

Printed: 2015.04.27 @ 09:53:39





## DRILL STEM TEST REPORT

Prepared For: **Palmer Oil, Inc.**

3118 N. Cummings RD.  
Garden City, KS 67846

ATTN: Luke Thompson

### **Rozelle #1-3**

#### **1-34s-33w-Seward,KS**

Start Date: 2015.04.18 @ 16:20:00

End Date: 2015.04.19 @ 01:08:15

Job Ticket #: 58811                      DST #: 2

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

Printed: 2015.04.27 @ 09:40:00

Palmer Oil, Inc. 1-34s-33w-Seward,KS Rozelle #1-3 DST # 2 Marmaton 2015.04.18



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palmer Oil, Inc.

**1-34s-33w-Seward,KS**

3118 N. Cummings RD.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58811

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2015.04.18 @ 16:20:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:25:00

Time Test Ended: 01:08:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 67

**Interval: 5075.00 ft (KB) To 5175.00 ft (KB) (TVD)**

Reference Elevations: 2824.00 ft (KB)

Total Depth: 5019.00 ft (KB) (TVD)

2813.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8968 Outside**

Press@RunDepth: 799.36 psig @ 5078.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.04.18

End Date:

2015.04.19

Last Calib.:

2015.04.19

Start Time: 16:20:05

End Time:

01:08:15

Time On Btm:

2015.04.18 @ 18:24:45

Time Off Btm:

2015.04.18 @ 21:15:00

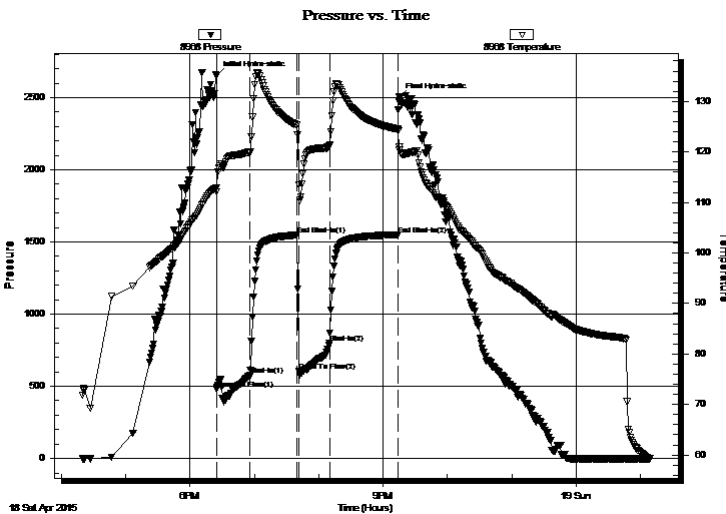
**TEST COMMENT:** IF: BOB in 1 min. GTS in 8 min.-Gauged gas-Took gas sample-See gas chart

IS: Bled off in 45 min.

FF: BOB in 30 seconds.- Fluid to surface in 27 min.-Gauged gas

FS: Bled off in 60 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2653.42	112.95	Initial Hydro-static
1	478.29	112.14	Open To Flow (1)
32	574.13	119.95	Shut-In(1)
75	1548.27	125.22	End Shut-In(1)
77	605.09	113.55	Open To Flow (2)
106	799.36	121.29	Shut-In(2)
169	1551.05	124.49	End Shut-In(2)
171	2502.51	120.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	W 100w	1.18
315.00	Gw 30g 70w	4.42
189.00	Ocm & G 10o 40m 50g	2.65
189.00	Ocm & G 2o 35m 63g	2.65
315.00	Gm 15g 85m	4.42

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	13.00	427.98
Last Gas Rate	0.75	19.00	521.70
Max. Gas Rate	0.75	19.00	521.70



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Palmer Oil, Inc.

1-34s-33w-Seward,KS

3118 N. Cummings RD.  
Garden City, KS 67846

Rozelle #1-3

Job Ticket: 58811

DST#: 2

ATTN: Luke Thompson

Test Start: 2015.04.18 @ 16:20:00

### GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:25:00

Time Test Ended: 01:08:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 67

Interval: **5075.00 ft (KB) To 5175.00 ft (KB) (TVD)**

Reference Elevations: 2824.00 ft (KB)

Total Depth: 5019.00 ft (KB) (TVD)

2813.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8356 Inside**

Press@RunDepth: psig @ 5078.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.04.18

End Date: 2015.04.19

Last Calib.: 2015.04.19

Start Time: 16:20:05

End Time: 01:08:15

Time On Btm:

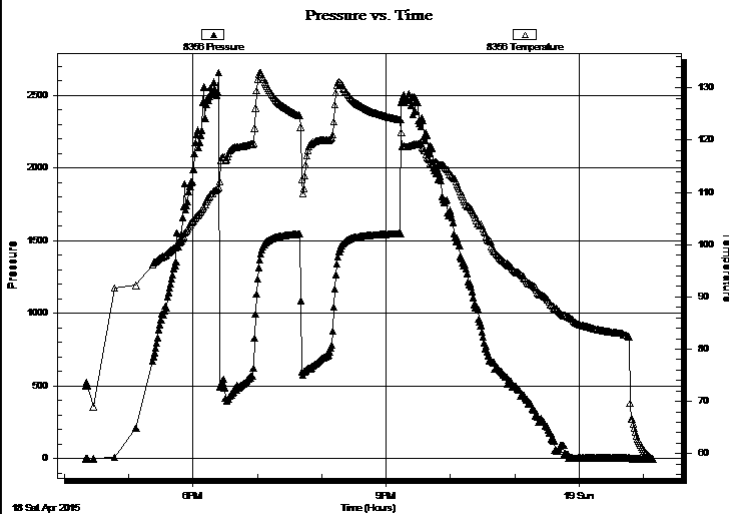
Time Off Btm:

**TEST COMMENT:** IF: BOB in 1 min. GTS in 8 min.-Gauged gas-Took gas sample-See gas chart

IS: Bled off in 45 min.

FF: BOB in 30 seconds.- Fluid to surface in 27 min.-Gauged gas

FS: Bled off in 60 min.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
240.00	W 100w	1.18
315.00	Gw 30g 70w	4.42
189.00	Ocm & G 10o 40m 50g	2.65
189.00	Ocm & G 2o 35m 63g	2.65
315.00	Gm 15g 85m	4.42

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	13.00	427.98
Last Gas Rate	0.75	19.00	521.70
Max. Gas Rate	0.75	19.00	521.70

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palmer Oil, Inc.

**1-34s-33w-Seward,KS**

3118 N. Cummings RD.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58811

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2015.04.18 @ 16:20:00

## Tool Information

Drill Pipe:	Length: 4828.00 ft	Diameter: 3.80 inches	Volume: 67.72 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: 68.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	5075.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	127.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5049.00	
Shut In Tool	5.00			5054.00	
Hydraulic tool	5.00			5059.00	
Jars	5.00			5064.00	
Safety Joint	2.00			5066.00	
Packer	5.00			5071.00	27.00 Bottom Of Top Packer
Packer	4.00			5075.00	
Stubb	1.00			5076.00	
Perforations	1.00			5077.00	
Change Over Sub	1.00			5078.00	
Recorder	0.00	8356	Inside	5078.00	
Recorder	0.00	8968	Outside	5078.00	
Drill Pipe	63.00			5141.00	
Change Over Sub	1.00			5142.00	
Perforations	30.00			5172.00	
Bullnose	3.00			5175.00	100.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>127.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palmer Oil, Inc.

**1-34s-33w-Seward,KS**

3118 N. Cummings RD.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58811

**DST#: 2**

ATTN: Luke Thompson

Test Start: 2015.04.18 @ 16:20:00

## 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:

20000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.62 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	W 100w	1.180
315.00	Gw 30g 70w	4.419
189.00	Ocm & G 10o 40m 50g	2.651
189.00	Ocm & G 2o 35m 63g	2.651
315.00	Gm 15g 85m	4.419

Total Length: 1248.00 ft

Total Volume: 15.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Palmer Oil, Inc.

**1-34s-33w-Seward,KS**

3118 N. Cummings RD.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58811

**DST#: 2**

ATTN: Luke Thompson

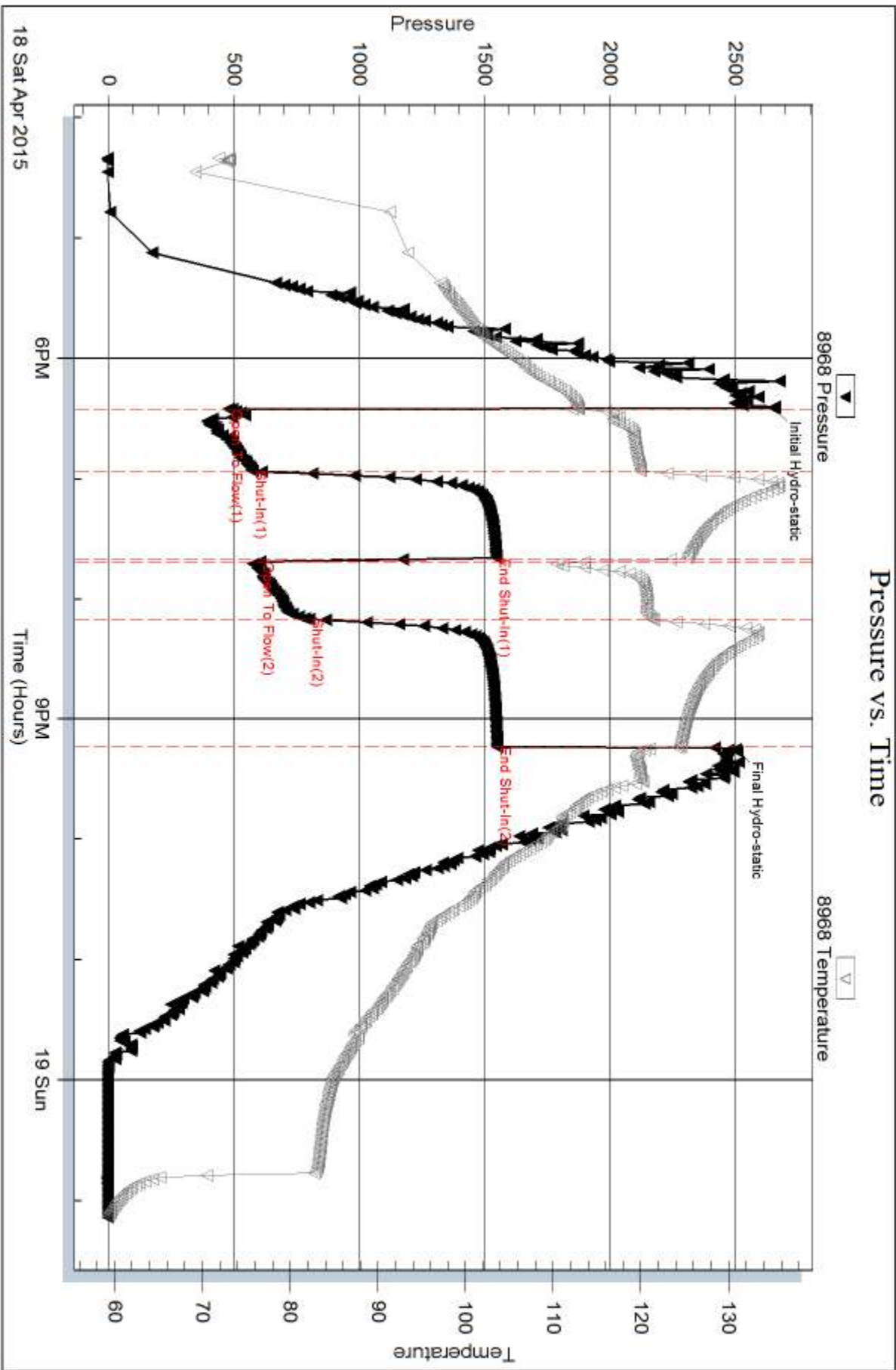
Test Start: 2015.04.18 @ 16:20:00

### Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.75	13.00	427.98
1	20	0.75	15.00	459.22
1	30	0.75	15.00	459.22
2	10	0.75	14.00	443.60
2	20	0.75	16.00	474.84
2	30	0.75	19.00	521.70



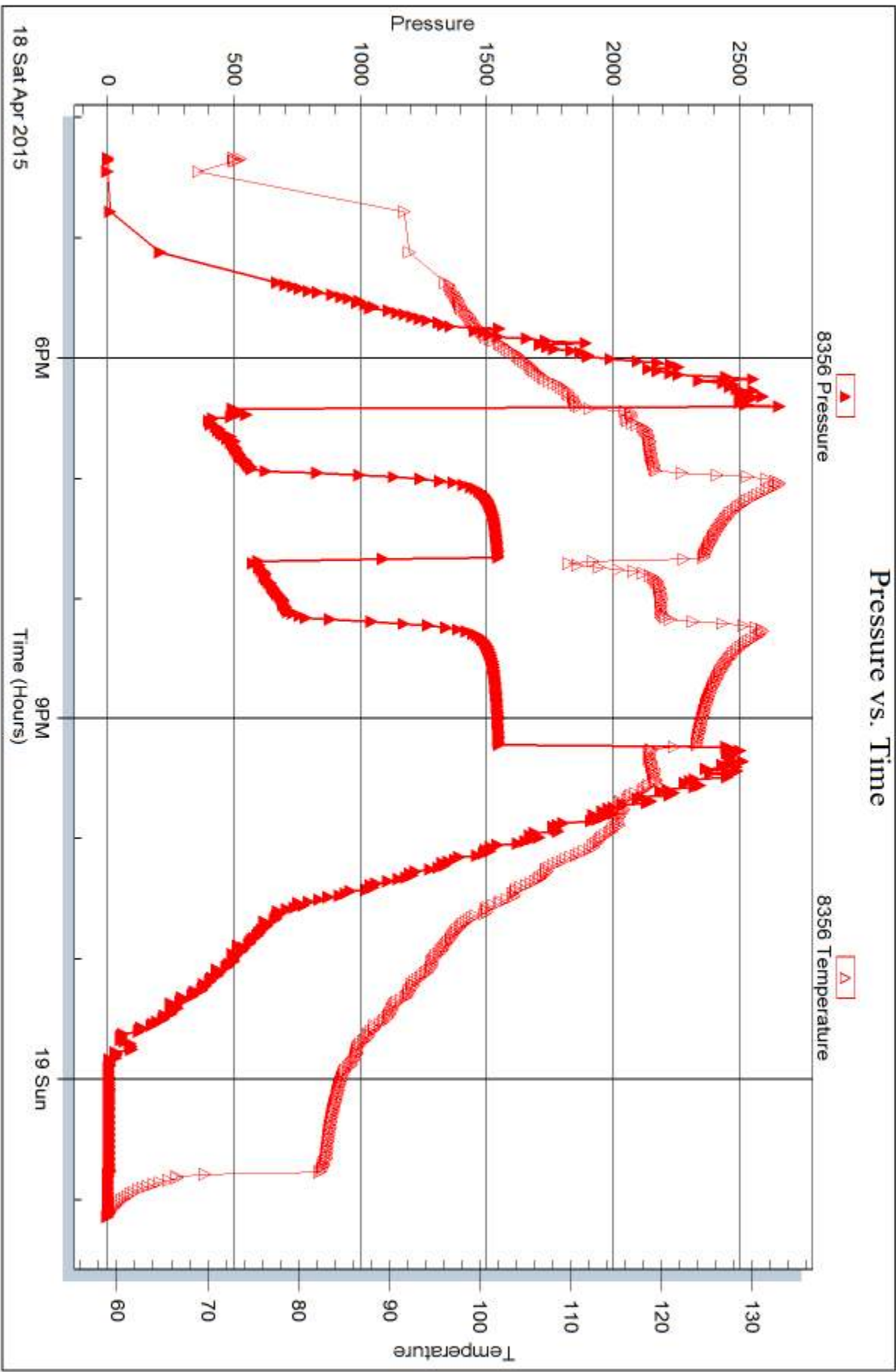
Serial #: 8356

Inside

Palmer Oil, Inc.

Rozelle #1-3

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58811

Printed: 2015.04.27 @ 09:40:02





## DRILL STEM TEST REPORT

Prepared For: **Palmer Oil, Inc.**

3118 N. Cummings Rd.  
Garden City, KS 67846

ATTN: Luke Thompson

### **Rozelle #1-3**

#### **1-34s-33w Seward,KS**

Start Date: 2015.04.22 @ 19:01:00

End Date: 2015.04.23 @ 01:35:30

Job Ticket #: 58812                      DST #: 3

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

Printed: 2015.04.27 @ 09:52:55

Palmer Oil, Inc. 1-34s-33w Seward,KS Rozelle #1-3 DST # 3 Chester 2015.04.22



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palmer Oil, Inc.

**1-34s-33w Seward,KS**

3118 N. Cummings Rd.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58812

**DST#: 3**

ATTN: Luke Thompson

Test Start: 2015.04.22 @ 19:01:00

## GENERAL INFORMATION:

Formation: **Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:54:45

Time Test Ended: 01:35:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 67

**Interval: 6146.00 ft (KB) To 6200.00 ft (KB) (TVD)**

Total Depth: 6200.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2824.00 ft (KB)

2813.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8968 Outside**

Press@RunDepth: 27.73 psig @ 6148.00 ft (KB)

Start Date: 2015.04.22

End Date: 2015.04.23

Start Time: 19:01:05

End Time: 01:35:29

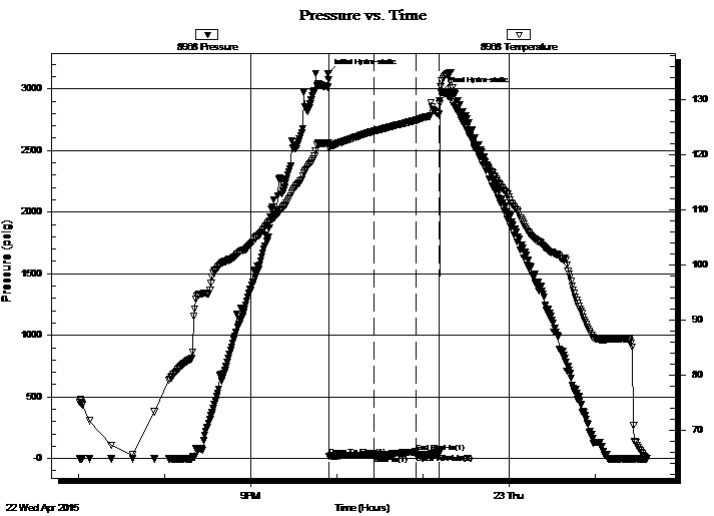
Capacity: 8000.00 psig

Last Calib.: 2015.04.23

Time On Btm: 2015.04.22 @ 21:54:00

Time Off Btm: 2015.04.22 @ 23:12:15

**TEST COMMENT:** IF: Weak surface blow -Built to 1/4". blow -Died in 8 min.-Blew a second time-1/4" -Died @ 20 min. into  
IS: No return  
FF: No blow -Flushed tool-Good surge-Pulled test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3127.49	122.04	Initial Hydro-static
1	20.57	121.16	Open To Flow (1)
32	27.73	124.20	Shut-In(1)
61	53.27	126.13	End Shut-In(1)
62	31.35	126.20	Open To Flow (2)
78	39.15	127.32	Shut-In(2)
79	2974.77	132.30	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

\* 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.

**1-34s-33w Seward,KS**

3118 N. Cummings Rd.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58812

**DST#: 3**

ATTN: Luke Thompson

Test Start: 2015.04.22 @ 19:01:00

## Tool Information

Drill Pipe:	Length: 5894.00 ft	Diameter: 3.80 inches	Volume: 82.68 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: 27000.00 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: 83.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	6146.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	81.00 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			6120.00	
Shut In Tool	5.00			6125.00	
Hydraulic tool	5.00			6130.00	
Jars	5.00			6135.00	
Safety Joint	2.00			6137.00	
Packer	5.00			6142.00	27.00 Bottom Of Top Packer
Packer	4.00			6146.00	
Stubb	1.00			6147.00	
Change Over Sub	1.00			6148.00	
Recorder	0.00	8356	Inside	6148.00	
Recorder	0.00	8968	Outside	6148.00	
Drill Pipe	31.00			6179.00	
Change Over Sub	1.00			6180.00	
Perforations	17.00			6197.00	
Bullnose	3.00			6200.00	54.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palmer Oil, Inc.

**1-34s-33w Seward,KS**

3118 N. Cummings Rd.  
Garden City, KS 67846

**Rozelle #1-3**

Job Ticket: 58812

**DST#: 3**

ATTN: Luke Thompson

Test Start: 2015.04.22 @ 19:01:00

## 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: 9.17 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

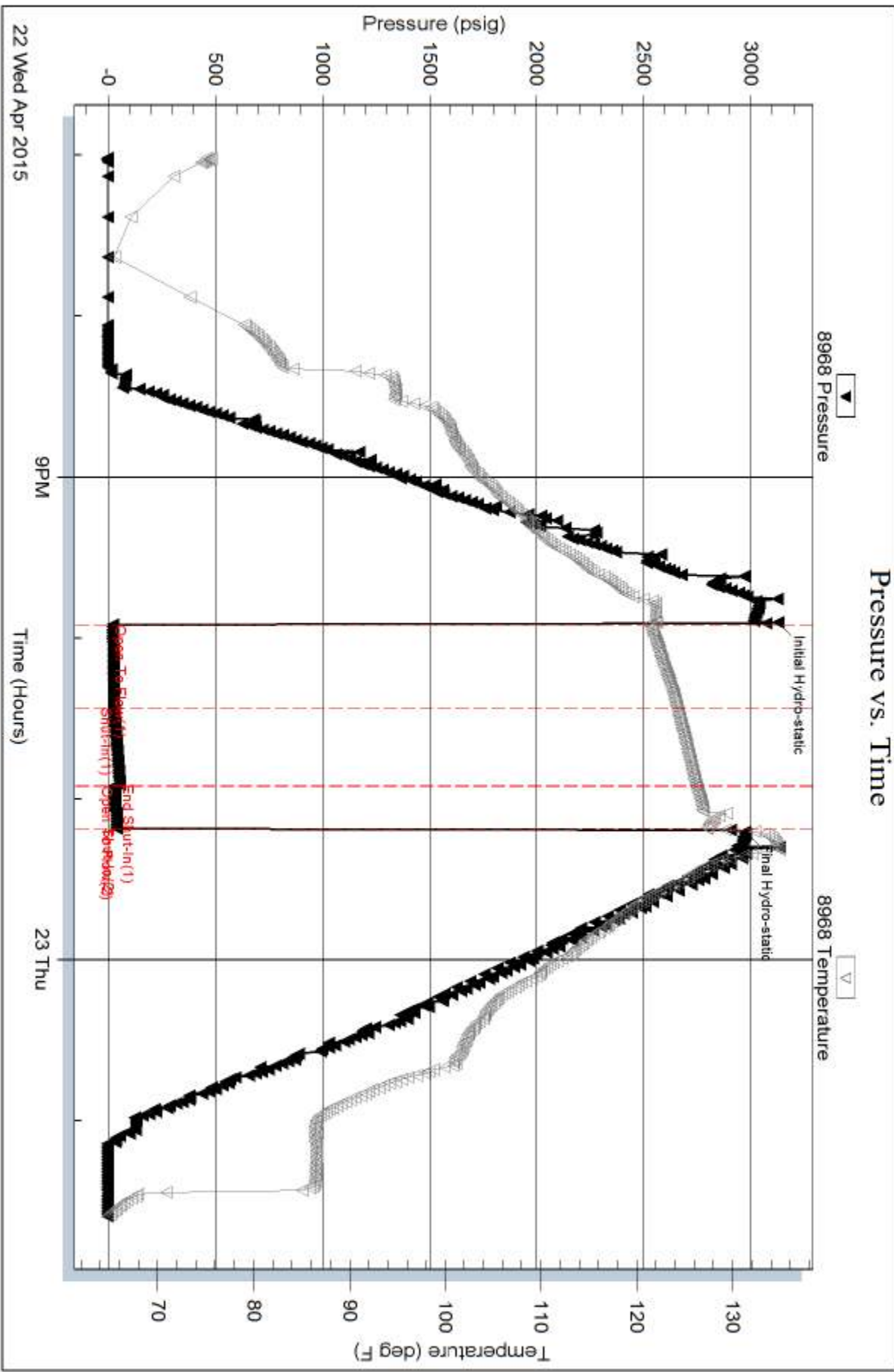
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



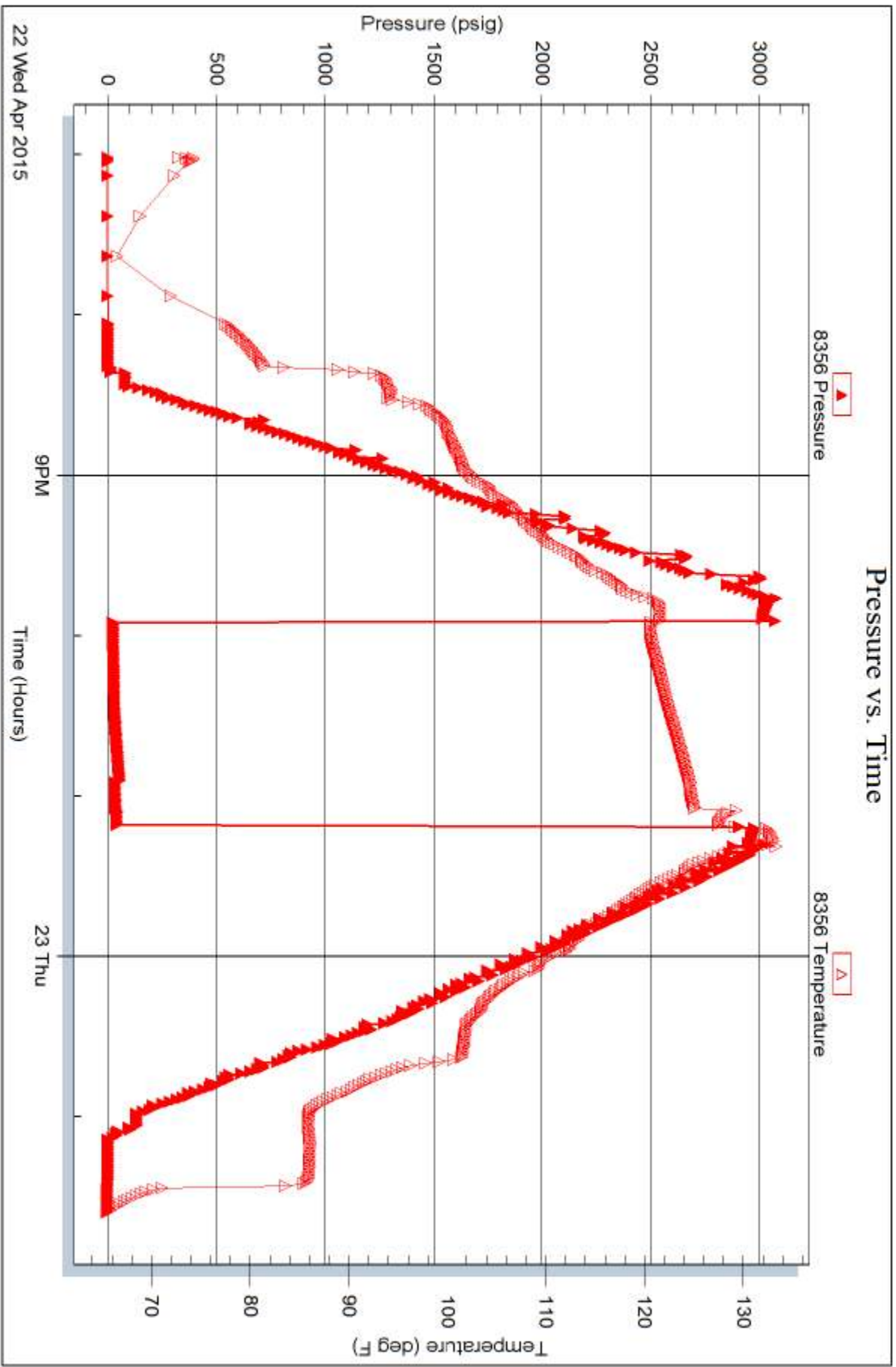
Serial #: 8356

Inside

Palmer Oil, Inc.

Rozelle #1-3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58812

Printed: 2015.04.27 @ 09:52:57



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58810

Well Name & No. Rozelle #1-3 Test No. 1 Date 4-17-15  
 Company Palmer Oil, Inc. Elevation 2824 KB 2813 GL  
 Address 3118 N. Cummings Rd. - Garden City 67846  
 Co. Rep / Geo. Luke Thompson Rig Duke #5  
 Location: Sec. 1 Twp. 34-S Rge. 33-W Co. Seward State Ks

Interval Tested 4950-5019 Zone Tested Lansing  
 Anchor Length 69' Drill Pipe Run 4705' Mud Wt. 9.2  
 Top Packer Depth 4946 Drill Collars Run 240 Vis 47  
 Bottom Packer Depth 4950 Wt. Pipe Run Ø WL 7.6  
 Total Depth 5019 Chlorides 1400 ppm System LCM #3

Blow Description IF: B.O.B. in 8 min. 15 seconds  
ISI: Bled off in 2 min - No Return  
FF: B.O.B. in 15 min.

FSI: Bled off in 5 min. - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>693</u>	<u>Ø ↓ MCW</u>	<u>2</u>	<u>78</u>	<u>20</u>	<u>20</u>
<u>240</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 933 BHT Gravity — API RW .850 @ 71 ° F Chlorides 6750 ppm

(A) Initial Hydrostatic	<u>2528</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>09:35</u>
(B) First Initial Flow	<u>58</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>09:35</u>
(C) First Final Flow	<u>267</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>13:50</u>
(D) Initial Shut-In	<u>1463</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NIC</u>	T-Pulled	<u>16:50</u>
(E) Second Initial Flow	<u>274</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>19:48</u>
(F) Second Final Flow	<u>417</u>	<input checked="" type="checkbox"/> Mileage	<u>80 RIT 80</u>	Comments	
(G) Final Shut-In	<u>1460</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2467</u>	<input type="checkbox"/> Straddle			

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

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1655  
 MP/DST Disc't \_\_\_\_\_

Sub Total 1655

Approved By \_\_\_\_\_ Our Representative C. B. ...

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. 58811

Well Name & No. Rozelle #1-3 Test No. 2 Date 4-18-15  
 Company Palmer Oil, Inc. Elevation 2824 KB 2813 GL  
 Address 3118 N. Cummings Rd. - Garden City, KS 67846  
 Co. Rep / Geo. Lyke Thompson Rig Duke #5  
 Location: Sec. 1 Twp. 34-5 Rge. 33-W Co. Seward State KS

Interval Tested 5075-5175 Zone Tested Marmaton  
 Anchor Length 100' Drill Pipe Run 4828' Mud Wt. 9.6  
 Top Packer Depth 5071 Drill Collars Run 240 Vis 58  
 Bottom Packer Depth 5075 Wt. Pipe Run Ø WL 9.6  
 Total Depth 5175 Chlorides 2000 ppm System LCM #2

Blow Description IF: Bob in 1 min - Gaged gas - Took gas sample - see gas chart  
ISF: Bled off in 45 min. | G.T.S in 8 min. IF  
FF: Bob. in 30 seconds - Fluid to surface in 27 min - G.T.S 1 min - Gaged Gas  
FSF: Bled off 60 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>GM</u>	<u>15</u>	<u>Ø</u>	<u>85</u>	<u>Ø</u>
<u>189</u>	<u>OCM + G</u>	<u>63</u>	<u>2</u>	<u>35</u>	<u>Ø</u>
<u>189</u>	<u>OCM + G</u>	<u>50</u>	<u>10</u>	<u>40</u>	<u>Ø</u>
<u>315</u>	<u>GW</u>	<u>30</u>	<u>Ø</u>	<u>70</u>	<u>Ø</u>
<u>240</u>	<u>Water</u>	<u>Ø</u>	<u>Ø</u>	<u>100</u>	<u>Ø</u>

Rec Total 1248 BHT 121 Gravity — API RW 550 @ 42 ° F Chlorides 200,000 ppm

- (A) Initial Hydrostatic 2653
- (B) First Initial Flow 478
- (C) First Final Flow 574
- (D) Initial Shut-In 1548
- (E) Second Initial Flow 605
- (F) Second Final Flow 799
- (G) Final Shut-In 1551
- (H) Final Hydrostatic 2503

- Test 1250
  - Jars 250
  - Safety Joint 75
  - Circ Sub 50
  - Hourly Standby
  - Mileage 80
  - Sampler
  - Straddle
  - Shale Packer
  - Extra Packer
  - Extra Recorder
  - Day Standby
  - Accessibility
- Sub Total 1705

T-On Location 16:20  
 T-Started 16:20  
 T-Open 18:25  
 T-Pulled Ø 21:10  
 T-Out 108

Comments Geo Said Time on Bank 24:30

- Ruined Shale Packer
- Ruined Packer
- Extra Copies

Sub Total 0  
 Total 1705  
 MP/DST Disc't

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

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.

P.O. Box 1733 • Hays, Kansas 67601

## Gas Volume Report

12/08

Palmer Oil, Inc

Rozello #1-3

2

Operator  
First Open

Well Name and No.  
Second open

DST No.

Min.	Ins. of Water PSIG	Orifice Size	Book mCF/D	ATMS	Min.	Ins. of Water PSIG	Orifice Size	Book mCF/D	ATMS
10	13	.750	303	427.984	10	14	.750	317	443.604
20	15	.750	331	459.224	20	16	.750	344	474.844
30	15	.750	331	459.224	30	19	.750	384	521.703

Remarks:



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58812

Well Name & No. Rozelle #1-3 Test No. 3 Date 4-22-15  
 Company Palmer Oil, Inc Elevation 2824 KB 2813 GL  
 Address 3115 N. Cummings Rd. Garden City, Ks 67844  
 Co. Rep / Geo. Leke Thompson Rig Duke #5  
 Location: Sec. 1 Twp. 34-S Rge. 33W Co. Seward State KS

Interval Tested 6146-6200 Zone Tested Chester  
 Anchor Length 54' Drill Pipe Run 5894' Mud Wt. 9.5  
 Top Packer Depth 6142 Drill Collars Run 240 Vis 50  
 Bottom Packer Depth 6144 Wt. Pipe Run 6 WL 9.2  
 Total Depth 6200 Chlorides 1200 ppm System LCM #6

Blow Description IF: Weak surface blow - Built to 1/4 in Pipe in 8 min - Blow as second time - Weak K surface blow  
FF: NO Return Built to 1/8 - Died @ 20 min into open  
FF: NO blow. Flushed tool - Good surge - pulled test

KST:

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				<u>100%</u>

Rec Total 5 BHT 132 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 3127  Test 1350 T-On Location 19:00  
 (B) First Initial Flow 21  Jars 250 T-Started 19:01  
 (C) First Final Flow 28  Safety Joint 75 T-Open 21:54  
 (D) Initial Shut-In 53  Circ Sub N/C T-Pulled ~~23:09~~ 23:09  
 (E) Second Initial Flow 31  Hourly Standby 6 hrs + 2 Days T-Out 01:35  
 (F) Second Final Flow 39  Mileage 80 last test on 4-15-15 Comments \_\_\_\_\_  
 (G) Final Shut-In -  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2975  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In pull  
 Day Standby 2 days 6 hrs  
 Accessibility 1.5d 53.75h  
 Sub Total 1755  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 1791.67  
 Total 7:30 - 7:45 made up tool  
 MP/DST Disc 7:45 - 8:15  
waiting on Rig  
30 minutes  
 Sub Total 3546.67

Approved By \_\_\_\_\_

Our Representative \_\_\_\_\_

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# **Geological Report**

Palmer Oil, Inc.

**Rozelle #1-3**

2068' FSL & 1128' FEL

Sec 1, T34s, R33w

Seward County, Kansas



**Palmer Oil, Inc.**

## General Data

Well Data: Palmer Oil, Inc.  
Rozelle #1-3  
2068' FSL & 1128' FEL  
Sec. 1, T34s, R33w  
Seward County, Kansas  
API # 15-175-22234-00-00

Drilling Contractor: Duke Drilling Co. Rig #5

Geologist: Luke Thompson

Spud Date: April 10, 2015

Completion Date: April 25, 2015

Elevation 2813' G.L.  
2824' 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 2.5 mile North on Rd. M to the SE corner of section 1-34s-33w – Now go 0.2 mile West on Rd. 9. to ingress stake North into – Now go 2068' North through pasture, into staked location.

Casing: 1702' 8 5/8" #24 Surface Casing  
6486' 5 1/2" #17 Production Casing

Samples: 2500'-3000' & 4200' to RTD 10' Wet & Dry

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

Electric Logs: Pioneer Energy Services "C. Desaire"  
Full Sweep

Drillstem Tests: Three-Trilobite Testing "Cornelio Landa III"

Problems: Bit Trip @ 4971'  
Lost Circulation @ 5489'

## Formation Tops

Rozelle #1-3

Sec. 1, T24s, R33w

2068' FSL & 1128' FEL

Anhydrite	2195' +629
Base	2300' +524
Heebner	4326' -1502
Lansing	4460' -1636
BKC	5134' -2310
Marmaton	5143' -2319
Cherokee	5366' -2542
Morrow	5722' -2898
Keyes	5920' -3096
Chester Lime	6038' -3214
St. Gen	6268' -3444
St. Louis	6330' -3506
RTD	6500' -3676
LTD	6496' -3672

### Sample Zone Descriptions

**Lansing** (4980', -2156): Covered in DST #1

Limestone, tan, oolitic, fair/good oomoldic porosity, good odor, scattered bright green/yellow fluorescence, poor show of free oil under fluorescence, poor cut. Gas 50 units hotwire.

**Marmaton** (5160', -2336): Covered in DST #2

Limestone, tan, oolitic, packstone, fair oomoldic porosity, occasional scattered sucrosic inter crystalline porosity, slight odor, scattered bright green fluorescence, slow string cut, slight show of free oil. Gas 100 units hotwire.

**Chester** (6150', -3326): Covered in DST #3

Sandstone, yellow/white/grey/aqua, fine grained, sub round, medium sorting, black specks, dead oil stain, no odor, very poor cut when broke, very poor show of free oil. Gas 355 units hotwire.

**Drill Stem Tests**  
 Trilobite Testing  
 “Cornelio Landa III”

**DST #1**

**Lansing**

Interval (4950' – 5019') Anchor Length 69'

IHP - 2528 #  
 IFP - 30" – BOB in 8 min 58-268 #  
 ISI - 45" – No return 1463 #  
 FFP - 45" – BOB in 15 min 274-417 #  
 FSIP - 60" – No return 1460 #  
 FHP - 2467 #  
 BHT - 123° F

**Recovery:** 693' G&MCW (2% Gas)  
 240' MCW

**DST #2**

**Marmaton**

Interval (5075' – 5175') Anchor Length 100'

IHP - 2653 #  
 IFP - 30" – BOB 1 min GTS 8 min 478-574 #  
 ISI - 45" – Bled off in 45 min 1548 #  
 FFP - 30" – BOB 30 sec fluid to surface 27 min 605-799#  
 FSIP - 60" – Bled off in 60 min 1551 #  
 FHP - 2503 #  
 BHT - 125 ° F

**Recovery:** 315' GM (15% Gas)  
 189' OCMG (2% Oil, 63% Gas)  
 189' OCMG (10% Oil, 50% Gas)  
 315' GW (30% Gas)  
 240' W

**Gas Rate:** First ¾ open 13 psi 428 mcf/d  
 Last ¾ open 19 psi 522 mcf/d

**DST #3**

**Chester**

Interval (6146' – 6200') Anchor Length 54'

IHP - 3127 #

IFP - 30" – 1/4" blow died 8 min 21-28#

ISI - 30" – No Return 53#

FFP - 10" – No Blow Flush surged and died 31-39 #

FSIP - Pulled Test N/A

FHP - 2975 #

BHT - 132 ° F

**Recovery:** 5' M



## Structural Comparison

	Palmer Oil, Inc. Rozelle #1-3 Sec. 1, T34s, R33w 2068' FSL & 1128' FEL		EOG Resources Rozelle #1-2 Sec. 1, T34s, R33w 660' FSL & 1980' FWL		Anadarko Petroleum Corp. Webb C-1 Sec. 1, T34s, R33w 4620' FSL & 660' FEL
<b>Formation</b>					
Heebner	4326' -1502	-12	4310' -1490	-2	4314' -1500
Lansing	4460' -1636	-4	4452' -1632	0	4450' -1636
BKC	5134' -2310	+18	5148' -2328	+4	5128' -2314
Marmaton	5143' -2319	+21	5160' -2340	+9	5142' -2328
Cherokee	5366' -2542	+10	5372' -2552	-11	5345' -2531
Morrow	5722' -2898	+9	5727' -2907	-12	5701' -2887
Keyes	5920' -3096	-59	5857' -3037	-10	5900' -3086
Chester Lm	6038' -3214	-12	5946' -3126	-18	6010' -3196
St. Gen	6268' -3444	-25	6289' -3469	-51	6207' -3393
St. Louis	6330' -3506			-20	6300' -3486

### Summary

The location for the Rozelle #1-3 well was found via 3-D seismic survey. The new well ran structurally as expected. Three drill stem test were conducted, one of which recovered commercial quantities of gas and oil. After all the gathered data had been examined, the decision was made to run 5 ½" casing to further evaluate the Rozelle #1-3 well.

### Perforations:

**Primary:** Chester (6152' – 6182') & (6197' – 6212')

\*\*Perforate Chester together

**Secondary:** Keyes 5972' – 5988'

Morrow 5870' – 5886'

Marmaton 5242' – 5245'

5144' – 5149'

<b>Before Abandonment:</b>	<b>Lansing</b>	<b>5040' – 5044'</b>
		<b>4977' – 4980'</b>
		<b>4792' – 4797'</b>
		<b>4764' – 4768'</b>
		<b>4642' – 4647'</b>
		<b>4530' – 4533'</b>
		<b>4485' – 4490'</b>
	<b>Toronto</b>	<b>4364' – 4367'</b>
		<b>4352' – 4356'</b>

Respectfully Submitted,

Lukas Thompson  
Palmer Oil, Inc.