



KANSAS CORPORATION COMMISSION 1146196  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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				

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	Frank Ummel 1
Doc ID	1146196

Tops

Name	Top	Datum
Anhy.	1750	(+ 702)
Base Anhy.	1792	(+ 660)
Heebner	3839	(-1387)
Lansing	3876	(-1424)
BKC	4211	(-1759)
Marmaton	4251	(-1799)
Pawnee	4295	(-1843)
Ft. Scott	4385	(-1933)
Cherokee Sh.	4409	(-1957)
Cherokee Sd.	4490	(-2038)
LTD	4561	(-2109)

RECEIVED

APR 01 2013



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 135374

Invoice Date: Mar 18, 2013

Voice: (817) 546-7282  
Fax: (817) 246-3361

Page: 1

**Bill To:**

Palomino Petroleum, Inc.  
4924 SE 84th St.  
Newton, KS 67114-8827

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Palo	60359	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	Mar 18, 2013	4/17/13

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Frank Ummel #1		
		Class A Common	17.90	2,685.00
100.00	MAT	Pozmix	9.35	935.00
9.00	MAT	Gel	23.40	210.60
63.00	MAT	Flo Seal	2.97	187.11
269.20	SER	Cubic Feet	2.48	667.61
89.85	SER	Ton Mileage	2.60	233.61
1.00	SER	Plug to Abandon	2,249.84	2,249.84
8.00	SER	Pump Truck Mileage	7.70	61.60
8.00	SER	Light Vehicle Mileage	4.40	35.20
1.00	CEMENTER	Charles Elkins		
1.00	EQUIP OPER	Joshua Isaac		
1.00	EQUIP OPER	Joel Monahan		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1,816.39

ONLY IF PAID ON OR BEFORE  
Apr 12, 2013

Subtotal	7,265.57
Sales Tax	457.73
Total Invoice Amount	7,723.30
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,723.30</b>

# ALLIED OIL & GAS SERVICES, LLC

060359

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:  
Great Bend, KS

DATE <u>3-18-13</u>	SEC. <u>25</u>	TWP. <u>17S</u>	RANGE <u>24W</u>	CALLED OUT	ON LOCATION <u>3:45 PM</u>	JOB START <u>10:00 AM</u>	JOB FINISH <u>11:00 PM</u>
LEASE <u>Frank Umme</u>	WELL # <u>1</u>	LOCATION <u>Mess City North 6m to 200rd. West 194m</u>		LOCATION <u>South into location (74m)</u>		COUNTY <u>Mess</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Mallard  
TYPE OF JOB PTA

OWNER Palomino Petroleum, Inc.

HOLE SIZE <u>7 7/8</u>	T.D. <u>4560 ft</u>
CASING SIZE <u>8 5/8" 23#</u>	DEPTH <u>217 ft</u>
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2 16.60#</u>	DEPTH <u>1820 ft</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>WBM + FW</u>	

CEMENT  
AMOUNT ORDERED 250sx 60/40 + 490 Gal  
+ 25 1/2sx Flo-Seal

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Charles Elkias</u>
# <u>398</u>	HELPER <u>Josh Isaac</u>
BULK TRUCK	
# <u>609/112</u>	DRIVER <u>Joel Monahan</u>
BULK TRUCK	
#	DRIVER

COMMON	<u>150</u>	@ <u>17.90</u>	<u>2,685.00</u>
POZMIX	<u>100</u>	@ <u>9.35</u>	<u>935.00</u>
GEL	<u>9</u>	@ <u>23.40</u>	<u>210.60</u>
CHLORIDE		@	
ASC		@	
	<u>460 cool</u>	<u>63</u>	@ <u>2.97</u> <u>187.11</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>269.2</u>	@ <u>2.48</u>	<u>667.61</u>
MILEAGE	<u>11.23 x 8 x</u>	<u>2.60</u>	<u>233.61</u>
			TOTAL <u>4,918.93</u>

REMARKS:

Plug 1 @ 1820ft: 6FW, 12.5cm, 2FW, 18WBM (50sx)  
Plug 2 @ 990ft: 6FW, 15cm, 8FW (60sx)  
Plug 3 @ 570ft: 6FW, 10cm, 3.6FW (40sx)  
Plug 4 @ 240ft: 6FW, 12.5cm, 2.5FW (60sx)  
Plug 5 @ 60ft: 5cm (20sx)  
Plug Rat Hole with 7.5cm (38sx)

SERVICE

DEPTH OF JOB	<u>1820</u>		
PUMP TRUCK CHARGE	<u>2249.89</u>		
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 8</u>	@ <u>7.70</u>	<u>61.60</u>
MANIFOLD		@	
	<u>Hum 8</u>	@ <u>4.40</u>	<u>35.20</u>
		@	

CHARGE TO: Palomino Petroleum, Inc.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 2,346.64

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

TOTAL \_\_\_\_\_

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	<u>7,265.57</u>
DISCOUNT	<u>1,816.88</u>
	<u>5,449.18</u>

IF PAID IN 30 DAYS

PRINTED NAME Kyle Stov  
 SIGNATURE Kyle Stov



RECEIVED

MAR 23 2013

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 135276

Invoice Date: Mar 11, 2013

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

**Bill To:**

Palomino Petroleum, Inc.  
4924 SE 84th St.  
Newton, KS 67114-8827

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Palo	60354	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Mar 11, 2013	4/10/13

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Frank Ummel #1		
		Class A Common	17.90	2,685.00
3.00	MAT	Gel	23.40	70.20
5.00	MAT	Chloride	64.00	320.00
162.09	SER	Cubic Feet	2.48	401.98
59.20	SER	Ton Mileage	2.60	153.92
1.00	SER	Surface	1,512.25	1,512.25
8.00	SER	Pump Truck Mileage	7.70	61.60
8.00	SER	Light Vehicle Mileage	4.40	35.20
1.00	CEMENTER	Charles Elkins		
1.00	EQUIP OPER	Joshua Isaac		
1.00	EQUIP OPER	Mike Scothorn		
1.00	EQUIP OPER	Joel Monahan		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1,310.03

ONLY IF PAID ON OR BEFORE

Apr 5, 2013

Subtotal	5,240.15
Sales Tax	193.74
Total Invoice Amount	5,433.89
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,433.89</b>







## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc.**

4924 SE 48th St  
Newton, KS 67114

ATTN: Ryan Seib

**Frank Ummel #1**

**25-17s-24w Ness,KS**

Start Date: 2013.03.17 @ 16:32:45

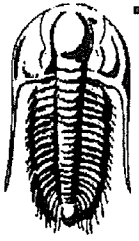
End Date: 2013.03.18 @ 00:39:45

Job Ticket #: 52692                      DST #: 1

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

Printed: 2013.03.21 @ 13:30:25





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

25-17s-24w Ness,KS

4924 SE 48th St  
New ton, KS 67114

Frank Ummel #1

Job Ticket: 52692

DST#: 1

ATTN: Ryan Seib

Test Start: 2013.03.17 @ 16:32:45

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:19:15  
 Time Test Ended: 00:39:45  
 Interval: **4365.00 ft (KB) To 4502.00 ft (KB) (TVD)**  
 Total Depth: 4502.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Rash  
 Unit No: 66  
 Reference Elevations: 2452.00 ft (KB)  
 2447.00 ft (CF)  
 KB to GR/CF: 5.00 ft

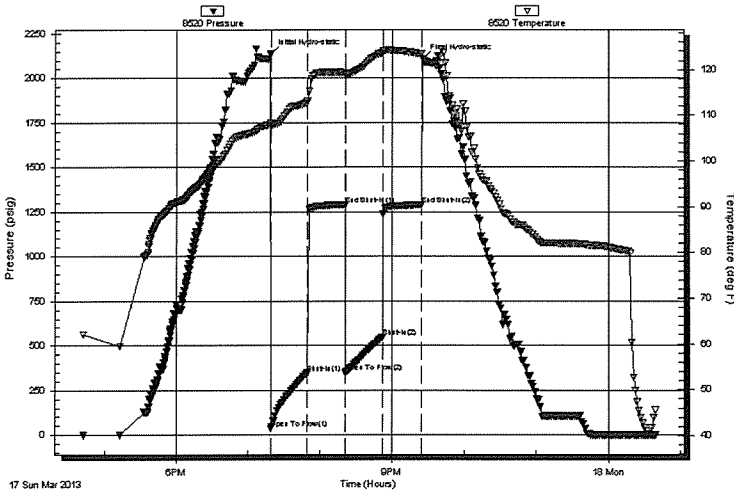
Serial #: 8520

Outside

Press@RunDepth: 546.84 psig @ 4467.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.03.17 End Date: 2013.03.18 Last Calib.: 2013.03.18  
 Start Time: 16:42:45 End Time: 00:39:45 Time On Btm: 2013.03.17 @ 19:18:45  
 Time Off Btm: 2013.03.17 @ 21:25:45

TEST COMMENT: IF-Strong building blow . BOB @ 7 minutes.  
 IS-No Return.  
 FF-Strong building blow . BOB @ 8 minutes 30 seconds.  
 FSI-No Return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2136.51	108.22	Initial Hydro-static
1	34.21	107.70	Open To Flow (1)
31	347.03	113.01	Shut-In(1)
63	1289.49	119.26	End Shut-In(1)
63	348.86	118.96	Open To Flow (2)
94	546.84	123.68	Shut-In(2)
126	1288.25	123.37	End Shut-In(2)
127	2106.17	122.24	Final Hydro-static

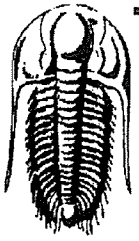
## Recovery

Length (ft)	Description	Volume (bbl)
303.00	85%Water/15%Mud	2.06
504.00	65%Water/35%Mud	7.07
295.00	15%Water/85%Mud	4.14

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**25-17s-24w Ness,KS**

4924 SE 48th St  
New ton, KS 67114

**Frank Ummel #1**

Job Ticket: 52692

**DST#: 1**

ATTN: Ryan Seib

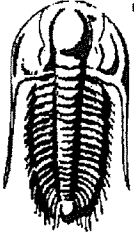
Test Start: 2013.03.17 @ 16:32:45

### Tool Information

Drill Pipe:	Length: 4111.00 ft	Diameter: 3.80 inches	Volume: 57.67 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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: 10000.00 lb
		Total Volume: 58.85 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4365.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	137.00 ft			
Tool Length:	165.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4338.00	
Shut In Tool	5.00			4343.00	
Hydraulic tool	5.00			4348.00	
Jars	5.00			4353.00	
Safety Joint	3.00			4356.00	
Packer	5.00			4361.00	28.00 Bottom Of Top Packer
Packer	4.00			4365.00	
Stubb	1.00			4366.00	
Perforations	5.00			4371.00	
Change Over Sub	1.00			4372.00	
Drill Pipe	94.00			4466.00	
Change Over Sub	1.00			4467.00	
Recorder	0.00	8354	Inside	4467.00	
Recorder	0.00	8520	Outside	4467.00	
Perforations	32.00			4499.00	
Bullnose	3.00			4502.00	137.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>165.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**25-17s-24w Ness,KS**

4924 SE 48th St  
New ton, KS 67114

**Frank Ummel #1**

Job Ticket: 52692

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2013.03.17 @ 16:32:45

### 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:

12000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.99 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
303.00	85%Water/15%Mud	2.064
504.00	65%Water/35%Mud	7.070
295.00	15%Water/85%Mud	4.138

Total Length: 1102.00 ft

Total Volume: 13.272 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

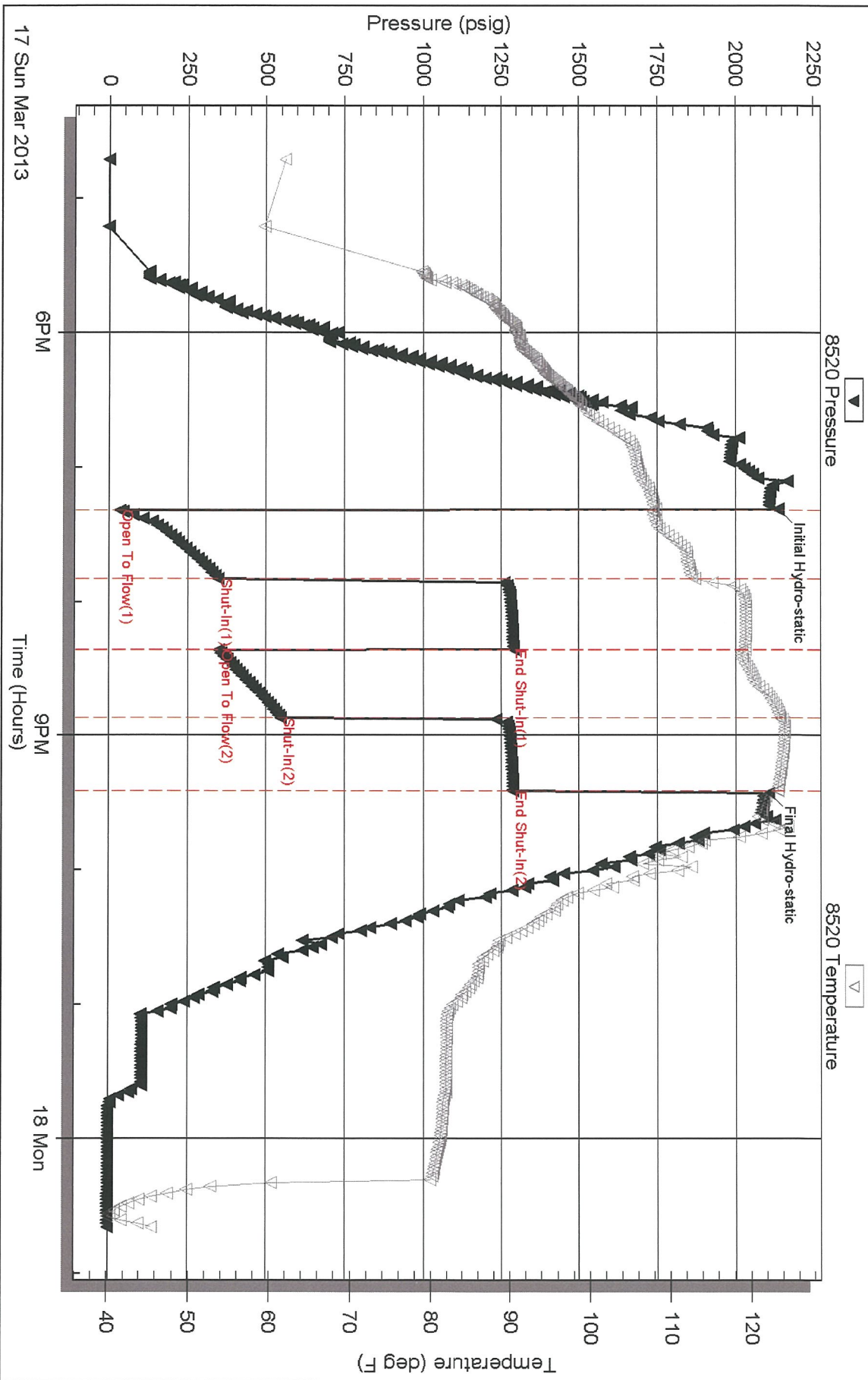
Serial #: 8520

Outside Palomino Petroleum, Inc.

Frank Urmel #1

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 52692

Printed: 2013.03.21 @ 13:30:27

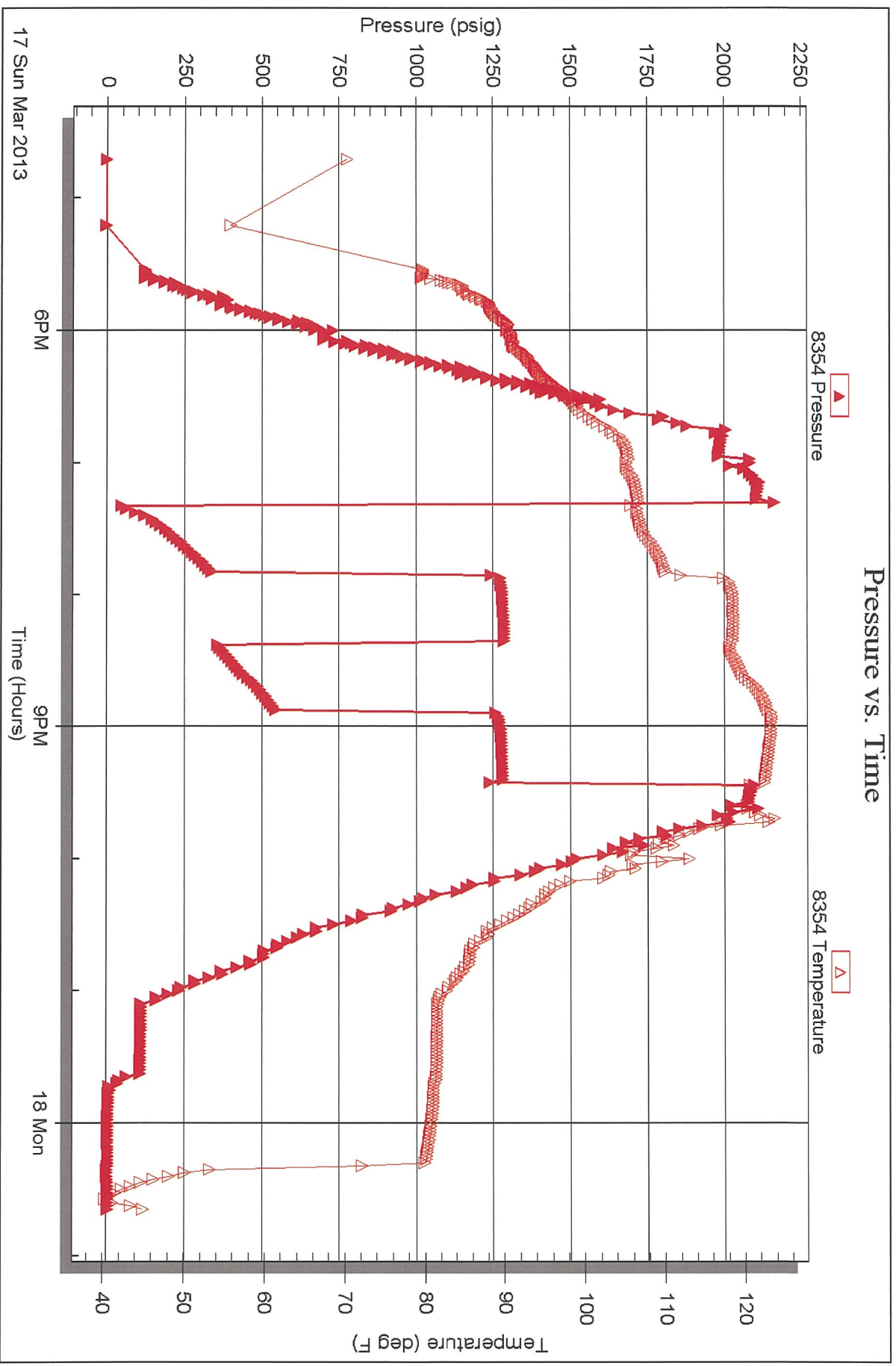
Serial #: 8354

Inside

Palomino Petroleum, Inc.

Frank Ummel #1

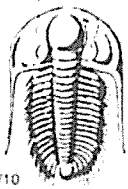
DST Test Number: 1



Triiodide Testing, Inc

Ref. No: 52692

Printed: 2013.03.21 @ 13:30:28



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51692

Well Name & No. Frank Ummel #1 Test No. 1 Date 3-17-13  
 Company Palomino Petroleum, Inc. Elevation 2452 KB 2447 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Ryan Rig Mallard 1  
 Location: Sec. 25 Twp. 17S Rge. 24W Co. Ness State KS

Interval Tested 4365-4502 Zone Tested Cherokee Sand  
 Anchor Length 137' Drill Pipe Run 4111 Mud Wt. 9.5  
 Top Packer Depth 4360 Drill Collars Run 240.43 Vis 4/2  
 Bottom Packer Depth 4365 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4502 Chlorides 1800 ppm System LCM 0

Blow Description IF - Strong building blow, BOB @ 7 minutes,  
ISF - No Return,  
FF - Strong building blow, BOB @ 8 minutes 30 seconds,  
FISF - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>Watery Mud</u>		<u>15</u>	<u>85</u>	
<u>504</u>	<u>Muddy Water</u>		<u>65</u>	<u>35</u>	
<u>303</u>	<u>Muddy Water</u>		<u>85</u>	<u>15</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1102 BHT 124 Gravity 1.988 @ 37 °F Chlorides 12000 ppm

(A) Initial Hydrostatic 2137  Test 1250 T-On Location 1500  
 (B) First Initial Flow 34  Jars 250 T-Started 1645  
 (C) First Final Flow 347  Safety Joint 75 T-Open 1920  
 (D) Initial Shut-In 1289  Circ Sub \_\_\_\_\_ T-Pulled 2125  
 (E) Second Initial Flow 349  Hourly Standby \_\_\_\_\_ T-Out 0045  
 (F) Second Final Flow 547  Mileage 71X2 220.10 Comments BHT-1632  
 (G) Final Shut-In 1288  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2106  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1795.10  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1795.10

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

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