



**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 3/31/2015

Invoice # 1229

RECEIVED

P.O.#:

APR 04 2015

Due Date: 4/30/2015

Division: Russell

# Invoice

**Contact:**

Palomino Petroleum Inc

**Address/Job Location:**

Palomino Petroleum Inc

4924 SE 84th

Newton Ks 67114

**Reference:**

TRS HANNA 1

**Description of Work:**

SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 887.76	No				
Common-Class A	130	\$ 2,085.42	Yes				
Bulk Truck Matl-Material Service Charge	158	\$ 307.22	No				
Calcium Chloride	5	\$ 270.57	Yes				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 242.57	No				
POZ Mix-Standard	20	\$ 136.11	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 141.94	No				
Premium Gel (Bentonite)	3	\$ 47.48	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 4,119.07

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (617.86)

SubTotal for Taxable Items: \$ 2,158.64

SubTotal for Non-Taxable Items: \$ 1,342.57

Total: \$ 3,501.21

Tax: \$ 170.53

7.90% Gove County Sales Tax

**Amount Due: \$ 3,671.74**

**Applied Payments:**

**Balance Due: \$ 3,671.74**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1229

Date	3-31-15	Sec.	11	Twp.	14	Range	31	County	GOVE	State	KS	On Location		Finish	5:45pm
								Location	GOVE 11 1/2 W 7 S 1 W 1 S						

Lease	TRS - Hanna	Well No.	1	Owner	To Quality Oilwell Cementing, Inc.	
Contractor	WW #6				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job	Surface				Charge To	Palomino Petroleum
Hole Size	12 1/4	T.D.	219	Street		
Csg.	8 5/8	Depth	219	City		
Tbg. Size		Depth		State		
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
Cement Left in Csg.	15	Shoe Joint		Cement Amount Ordered	150 Com 3.1 CC 2.1 CC 2	

Meas Line	Displace	13 BCL	Common	150 8 1/2
-----------	----------	--------	--------	-----------

EQUIPMENT			
Pumptrk	20 No.	Cementer	130
		Helper	
Bulktrk	No.	Driver	20
		Driver	3
Bulktrk	9 No.	Driver	5
		Driver	

JOB SERVICES & REMARKS		
Remarks:		Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
8 5/8 on bottom Est. Circulation.		Sand
Mix 150SK & Displace		Handling 158
		Mileage

FLOAT EQUIPMENT	
Cement Circulated!	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge	Surface
Mileage	25

X Signature	M and B	Tax	
		Discount	
		Total Charge	

# SWIFT



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



## Invoice

DATE	INVOICE #
4/10/2015	27114

RECEIVED

APR 16 2015

- Acidizing
- Cement
- Tool Rental

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	TRS-Hanna	Gove	WW Drilling	Oil	Development	LongString	David E.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
578D-L	Pump Charge - Long String				1	Job	1,250.00	1,250.00
290	D-Air				3	Gallon(s)	42.00	126.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
403-5	5 1/2" Cement Basket				2	Each	250.00	500.00T
404-5	5 1/2" Port Collar				1	Each	2,500.00	2,500.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	300.00	300.00T
409-5	5 1/2" Turbolizer				13	Each	75.00	975.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	15.75	1,968.75T
325	Standard Cement				100	Sacks	12.25	1,225.00T
284	Calseal				5	Sack(s)	30.00	150.00T
283	Salt				541	Lb(s)	0.20	108.20T
285	CFR-1				47	Lb(s)	4.50	211.50T
276	Flocele				57	Lb(s)	2.25	128.25T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				917	Ton Miles	0.75	687.75
	Subtotal							12,017.95
	Sales Tax Gove County						7.15%	668.00

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$12,685.95
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CHARGE TO: Palomino Petroleum  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 27114

PAGE 1 OF 1

SERVICE LOCATIONS  
 1. Hays KS  
 2. Ness City KS  
 3.  
 4. REFERRAL LOCATION

WELL/PROJECT NO. #1  
 LEASE TEs-Hanna  
 CONTRACTOR WU Drilling  
 RIG NAME NO. Gore  
 WELL TYPE  SERVICE  SALES  
 WELL CATEGORY Development  
 JOB PURPOSE Long String  
 COUNTY/PARISH Gore  
 RIG NAME NO.  
 STATE KS  
 CITY  
 DELIVERED TO  
 WELL PERMIT NO.  
 DATE 4-10-15  
 ORDER NO.  
 WELL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.		
575					MILEAGE # 111	80	Mi		5.00	400.00
578					Pump Charge - long string	1	EA		1250.00	1250.00
290					D-Are	3	GA		40.00	120.00
281					liquid hal	4	GA		25.00	100.00
281					mud flush	500	GA		1.25	625.00
403					Ant basket	2	EA	5/3	250.00	500.00
404					Port collar	1	EA		2500.00	2500.00
406					latch down plug & buckle	1	EA		225.00	225.00
407					Insert float shoe w/ Auto fill	1	EA		300.00	300.00
409					Turbolizer	13	EA		75.00	975.00
419					Rotating Head Rental	1	EA		200.00	200.00

**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.

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

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

X *Alan [Signature]*  
 DATE SIGNED 4-10-15  
 TIME SIGNED 6:40  
 AM  
 PM

**SURVEY**  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?   
 WE UNDERSTOOD AND MET YOUR NEEDS?   
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?   
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?   
 ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO  
 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 *David Edgerton* APPROVAL  
 TOTAL 12,685.91  
 Gave TAX 7.15% 668.00  
 TOTAL 12,685.91  
 Thank You.



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

TICKET CONTINUATION

TICKET No. 27114

CUSTOMER  
Paldwino Petroleum

WELL  
TAS-4 gms

DATE  
4-10-15

PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL		DATE	UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY	U/M				QTY
330						Swift Multi-density Cmt	125	Sks	15	75	1968.75	
325						Standard Cmt	100	Sks	12	25	1225.00	
284						CalSeed	5	Sks	30	00	150.00	
283						Salt	100	Lbs	20	20	108.20	
285						GR-1	4700	Lbs	4	50	211.50	
276						Flocele	57	Lbs	2	25	128.25	
581						Cement	225	Sks	1	50	337.50	
583						MILEAGE CHARGE	229.23	LOADED MILES	80	75	687.75	
<p>Service Charge</p>											75	
<p>Continuation Total</p>											4816.95	

**JOB LOG**

**SWIFT Services, Inc.**

DATE 4-10-15 PAGE NO. 1

CUSTOMER Palomino Petroleum WELL NO. #1 LEASE TKS-Hanna JOB TYPE Long String TICKET NO. 27114

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							On location w/ float Equip.
								5 1/2 csg
								RTD - 4767'
								Shoe - 44.77
								Port collar - Joint 57 @ 2367'
								Cent - 1, 3, 5, 7, 9, 11, 13 - 16 18, 20, 56
								Baskets - 2 @ 57
	220							Start csg
	420							Circulate on Bottom
	525	2.5				0		Plug RAT hole - 30 SKS SMD
	530	5.5	0				200	Start mud flush 500 gal
		5.5	12				200	Start KCL spacer
		5.5	32				200	End KCL spacer
	535	5.5	0				200	Start Cmt 95 SKS SMD
								100 SKS EA 2
		5.5	57				200	End Cmt
			0				0	@ Wash p & L
			84				200	Start Disp
			115				900/1500	Catch Cmt
								Land Plug 900 / 1500 lbs
								Thanks
								David Austin, & Issac



P. O. Box 466  
 Ness City, KS 67560  
 Off: 785-798-2300



RECEIVED

APR 24 2015

# Invoice

DATE	INVOICE #
4/17/2015	28450

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	TRS-Hanna	Gove	Express Well Serv...	Oil	Development	Cement Port Collar	Jason
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
576D-D	Pump Charge - Port Collar				1	Job	1,250.00	1,250.00
105	Port Collar Tool Rental With Man				1	Each	275.00	275.00T
276	Flocele				55	Lb(s)	2.25	123.75T
290	D-Air				2.5	Gallon(s)	42.00	105.00T
330	Swift Multi-Density Standard (MIDCON II)				220	Sacks	15.75	3,465.00T
581D	Service Charge Cement				300	Sacks	1.50	450.00
583D	Drayage				1,195	Ton Miles	0.75	896.25
	Subtotal							6,965.00
	Sales Tax Gove County						7.15%	283.77

**We Appreciate Your Business!**

**Total**

\$7,248.77



CHARGE TO: Palmdino Petroleum  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

TICKET 28450  
 PAGE 1 OF 1

SERVICE LOCATIONS: 1. Ness City, KS WELL/PROJECT NO. \_\_\_\_\_ LEASE TRS-HANNA #1 COUNTY GOVE STATE KS CITY GOVE, KS DATE 17 APR 15 OWNER \_\_\_\_\_  
 2. \_\_\_\_\_ CONTRACTOR EXPRESS WELL SERV. RIG NAME/NO. \_\_\_\_\_ SHIPPED KS DELIVERED TO \_\_\_\_\_ ORDER NO. \_\_\_\_\_  
 3. \_\_\_\_\_ WELL TYPE OIL WELL CATEGORY DEVELOPMENT JOB PURPOSE Cement Port Collar WELL PERMIT NO. \_\_\_\_\_ WELL LOCATION S. To Mo. PLATS RD W/TE  
 4. \_\_\_\_\_ REFERRAL LOCATION \_\_\_\_\_ INVOICE INSTRUCTIONS DEAD END, 3/11/15, WITH 575

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE #	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					115	80	MIL				5.00	400.00
576D					Pump Charge		KS				1850.00	1850.00
105					PORT COLLAR OPENING TOOL		KS				275.00	275.00
276					FLOTELE		KS				2.35	123.75
29D					D-AIR		KS				42.00	105.00
33D					SMD CEMENT		KS				15.75	346.50
581					CEMENT SERVICE CHARGE		KS				1.50	450.00
783					DRAVAGE		KS				25.00	876.25

**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

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PAGE TOTAL: 6965.00

Gove TAX 7.15% TOTAL 7248.7

DATE SIGNED: 17 APR 15 TIME SIGNED: 1:30  AM  PM  
 SWIFT OPERATOR: [Signature] APPROVAL: \_\_\_\_\_  
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You



JOB LOG

SWIFT Services, Inc.

DATE 17 APR 15 PAGE NO.

CUSTOMER PALMIND PETROLEUM

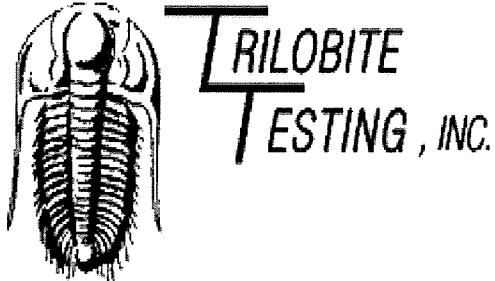
WELL NO.

LEASE TRS-HANNA #1

JOB TYPE CEMENT PORT COLLAR

TICKET NO. 28450

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1225							DN LOCATION
								PORT COLLAR @ 2367
	1306						1000	TEST - HELD
	1308							OPEN PORT COLLAR
	1313	4	122				400	MIX 220 SX SMD
		3	13					DISPLACEMENT
								CIRCULATE 20 SX TO PIT
	1349						1000	CLOSE PORT COLLAR - TEST - HELD
								RUN 5 JTS.
	1359	4	25				400	REVERSE CLEAN
	1410							WASH TRUCK
	1430							JOB COMPLETE.
								THANKS # 115
								JASON COLE PRESTON



## DRILL STEM TEST REPORT

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

4924 SE 84th  
Newton KS 67114-8827

ATTN: Ryan Seib

### **TRS-Hanna #1**

#### **11-14s-31w Gove,KS**

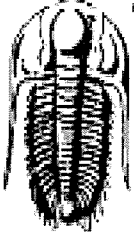
Start Date: 2015.04.04 @ 00:15:00

End Date: 2015.04.04 @ 07:09:00

Job Ticket #: 58543                      DST #: 1

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

Printed: 2015.04.10 @ 12:00:08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
 4924 SE 84th  
 Newton KS 67114-8827  
 ATTN: Ryan Seib

**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
 Job Ticket: 58543      **DST#: 1**  
 Test Start: 2015.04.04 @ 00:15:00

## GENERAL INFORMATION:

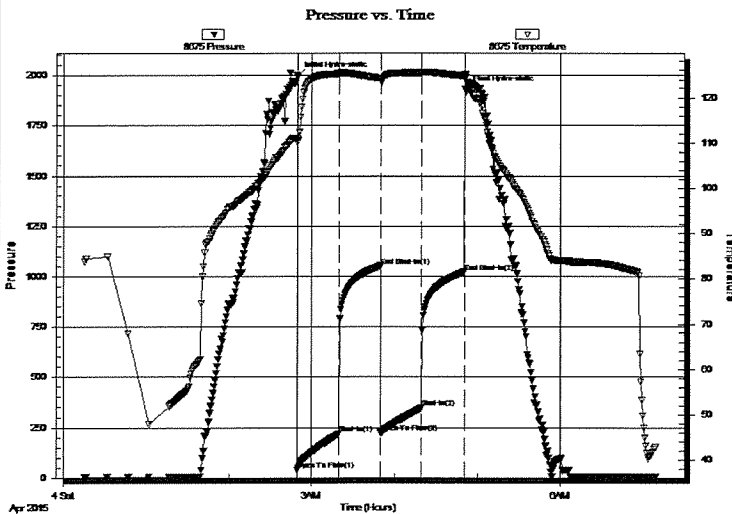
Formation: **LKC 'A'**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 02:50:00      Tester: Jace McKinney  
 Time Test Ended: 07:09:00      Unit No: 75  
 Interval: **3966.00 ft (KB) To 3995.00 ft (KB) (TVD)**      Reference Elevations: 2910.00 ft (KB)  
 Total Depth: 3995.00 ft (KB) (TVD)      2905.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 5.00 ft

## Serial #: 8675

Inside

Press@RunDepth: 346.27 psig @ 3997.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.04.04      End Date: 2015.04.04      Last Calib.: 2015.04.04  
 Start Time: 00:15:15      End Time: 07:09:00      Time On Btm: 2015.04.04 @ 02:49:45  
 Time Off Btm: 2015.04.04 @ 04:50:45

TEST COMMENT: B.O.B. in 7 1/2 min.  
 Bled off for 3 min, No return blow  
 B.O.B. in 10 1/2 min.  
 Bled off for 3 min, No return blow



## PRESSURE SUMMARY

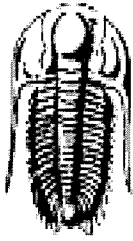
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1993.19	110.97	Initial Hydro-static
1	39.44	110.14	Open To Flow (1)
30	217.13	125.33	Shut-In(1)
60	1051.66	124.22	End Shut-In(1)
61	223.75	123.77	Open To Flow (2)
90	346.27	125.53	Shut-In(2)
121	1021.66	124.79	End Shut-In(2)
121	1927.27	124.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
556.00	100% Water	6.70
189.00	mcw 50%M 50%W with oil scum	2.65
5.00	Clean Oil	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
 4924 SE 84th  
 Newton KS 67114-8827  
 ATTN: Ryan Seib

**11-14s-31w Gove,KS**

**TRS-Hanna #1**

Job Ticket: 58543

**DST#: 1**

Test Start: 2015.04.04 @ 00:15:00

## GENERAL INFORMATION:

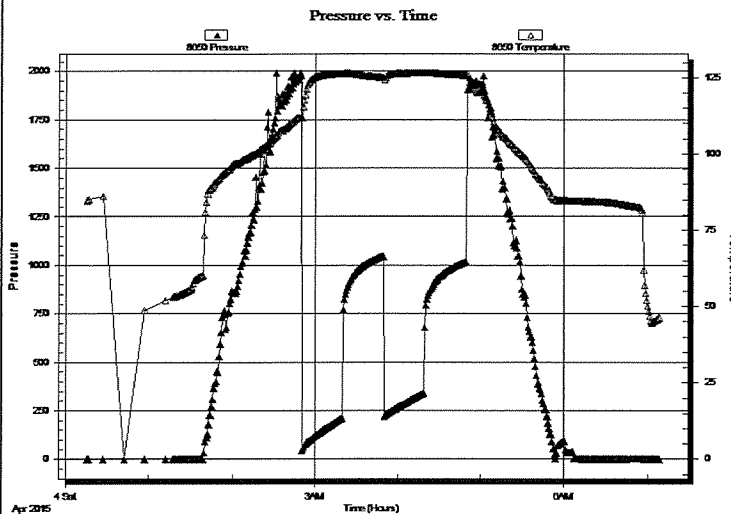
Formation: **LKC 'A'**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: **02:50:00**  
 Time Test Ended: **07:09:00**  
 Interval: **3966.00 ft (KB) To 3995.00 ft (KB) (TVD)**  
 Total Depth: **3995.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Jace McKinney**  
 Unit No: **75**  
 Reference Elevations: **2910.00 ft (KB)**  
**2905.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

## Serial #: 8650

## Outside

Press@RunDepth: **psig @ 3997.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2015.04.04** End Date: **2015.04.04** Last Calib.: **2015.04.04**  
 Start Time: **00:15:15** End Time: **07:09:00** Time On Btm:  
 Time Off Btm:

TEST COMMENT: B.O.B. in 7 1/2 min.  
 Bled off for 3 min, No return blow  
 B.O.B. in 10 1/2 min.  
 Bled off for 3 min, No return blow



## PRESSURE SUMMARY

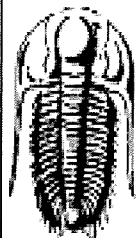
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
556.00	100% Water	6.70
189.00	mcw 50%M 50%W with oil scum	2.65
5.00	Clean Oil	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58543

**DST#: 1**

ATTN: Ryan Seib

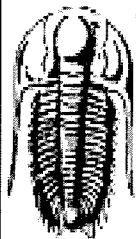
Test Start: 2015.04.04 @ 00:15:00

## Tool Information

Drill Pipe:	Length: 3840.06 ft	Diameter: 3.80 inches	Volume: 53.87 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: 120.59 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 62000.00 lb
		Total Volume: 54.46 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	18.15 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3966.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	57.50 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			3943.50	
Shut In Tool	5.00			3948.50	
Hydraulic tool	5.00			3953.50	
Jars	5.00			3958.50	
Safety Joint	2.50			3961.00	
Packer	5.00			3966.00	23.50 Bottom Of Top Packer
Packer - Shale	4.00			3970.00	
Stubb	1.00			3971.00	
Perforations	25.00			3996.00	
Change Over Sub	1.00			3997.00	
Recorder	0.00	8675	Inside	3997.00	
Recorder	0.00	8650	Outside	3997.00	
Drill Pipe	0.00			3997.00	
Change Over Sub	0.00			3997.00	
Perforations	0.00			3997.00	
Bullnose	3.00			4000.00	34.00 Anchor Tool
<b>Total Tool Length:</b>	<b>57.50</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58543

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2015.04.04 @ 00:15:00

## 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:

25000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
556.00	100% Water	6.701
189.00	mcw 50%M 50%W with oil scum	2.651
5.00	Clean Oil	0.070

Total Length: 750.00 ft      Total Volume: 9.422 bbl

Num Fluid Samples: 0

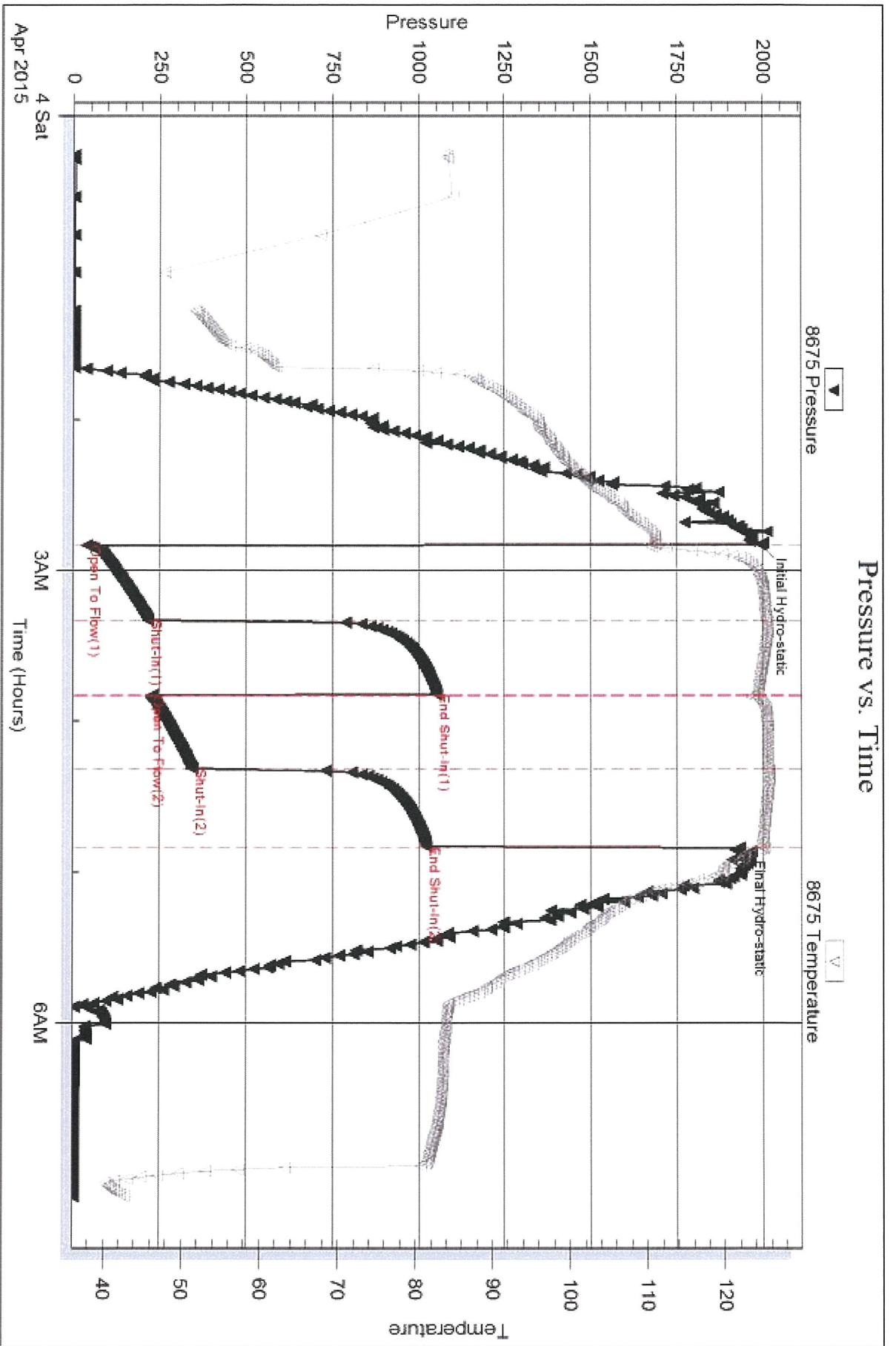
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .65 @ 30 F = 25,000



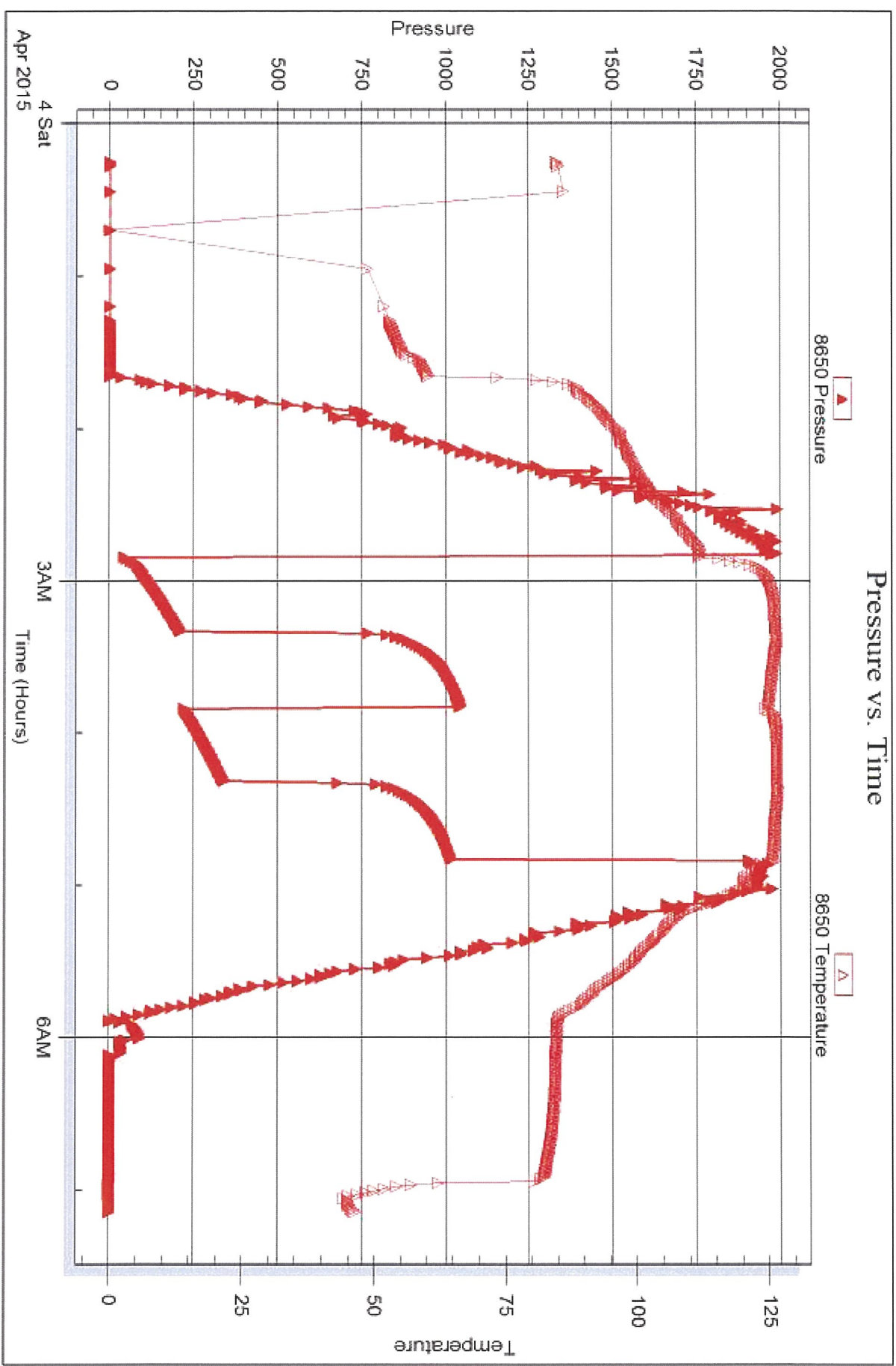
Serial #: 8650

Outside

Palomino Petroleum, Inc.

TRS-Hanna #1

DST Test Number: 1

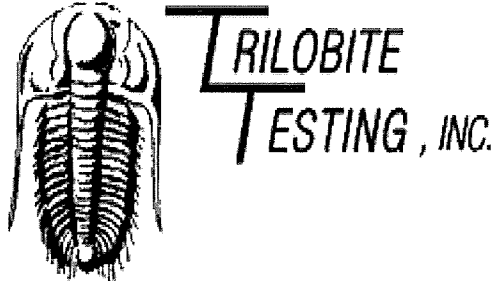


Tribble Testing, Inc

Ref. No: 58543

Printed: 2015 04 10 @ 12:00:12





## DRILL STEM TEST REPORT

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

4924 SE 84th  
Newton KS 67114-8827

ATTN: Ryan Seib

### **TRS-Hanna #1**

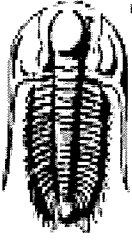
#### **11-14s-31w Gove,KS**

Start Date: 2015.04.04 @ 15:50:00

End Date: 2015.04.04 @ 22:59:30

Job Ticket #: 58544                      DST #: 2

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
 4924 SE 84th  
 New ton KS 67114-8827  
 ATTN: Ryan Seib

**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
 Job Ticket: 58544      **DST#: 2**  
 Test Start: 2015.04.04 @ 15:50:00

## GENERAL INFORMATION:

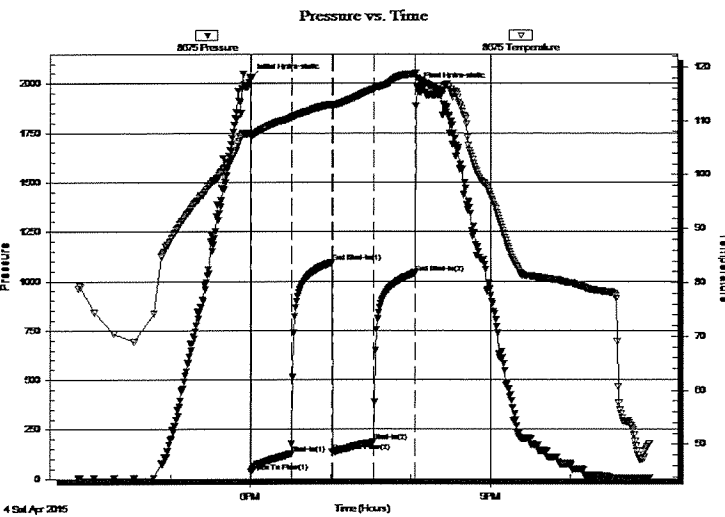
Formation: **LKC D-F**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 18:00:15  
 Time Test Ended: 22:59:30  
 Interval: **3992.00 ft (KB) To 4070.00 ft (KB) (TVD)**  
 Total Depth: 4070.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 75  
 Reference Elevations: 2910.00 ft (KB)  
 2905.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8675

Inside

Press@RunDepth: 185.16 psig @ 4025.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.04.04      End Date: 2015.04.04      Last Calib.: 2015.04.04  
 Start Time: 15:50:15      End Time: 22:59:30      Time On Btm: 2015.04.04 @ 18:00:00  
 Time Off Btm: 2015.04.04 @ 20:04:30

TEST COMMENT: B.O.B. in 12 1/2 min  
 Bled off for 3 min, Built to 1/2" return blow  
 B.O.B. in 15 min  
 Bled off for 3 min, Built to 1" return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2027.44	107.68	Initial Hydro-static
1	33.91	106.91	Open To Flow (1)
31	127.21	110.57	Shut-In(1)
61	1093.22	113.09	End Shut-In(1)
62	134.25	112.86	Open To Flow (2)
93	185.16	115.93	Shut-In(2)
124	1040.86	118.66	End Shut-In(2)
125	1982.94	117.99	Final Hydro-static

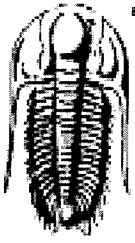
## Recovery

Length (ft)	Description	Volume (bbl)
120.00	w cmo 5%W 40%M 55%O	0.59
63.00	w cmo 5%W 10%M 85%O	0.88
126.00	mco 40%M 60%O	1.77
93.00	gco 5%G 95%O	1.30
0.00	126 Feet of weak gas in pipe	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Palomino Petroleum, Inc.  
 4924 SE 84th  
 Newton KS 67114-8827  
 ATTN: Ryan Seib

**11-14s-31w Gove, KS**  
**TRS-Hanna #1**  
 Job Ticket: 58544      **DST#: 2**  
 Test Start: 2015.04.04 @ 15:50:00

**GENERAL INFORMATION:**

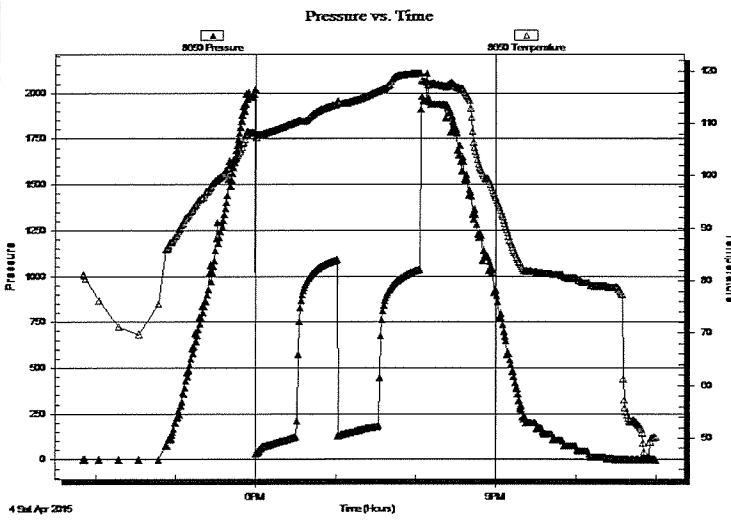
Formation: **LKC D-F**  
 Deviated: No Whipstock:                          ft (KB)  
 Time Tool Opened: 18:00:15  
 Time Test Ended: 22:59:30  
**Interval: 3992.00 ft (KB) To 4070.00 ft (KB) (TVD)**  
 Total Depth: 4070.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 75  
 Reference Elevations: 2910.00 ft (KB)  
    2905.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8650**

**Outside**

Press@RunDepth:                          psig @ 4025.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.04.04      End Date: 2015.04.04      Last Calib.: 2015.04.04  
 Start Time: 15:50:15      End Time: 22:59:15      Time On Btm:  
    Time Off Btm:

**TEST COMMENT:** B.O.B. in 12 1/2 min  
 Bled off for 3 min, Built to 1/2" return blow  
 B.O.B. in 15 min  
 Bled off for 3 min, Built to 1" return blow



**PRESSURE SUMMARY**

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

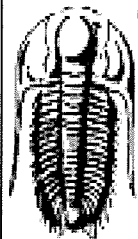
**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	w cmo 5%W 40%M 55%O	0.59
63.00	w cmo 5%W 10%M 85%O	0.88
126.00	mco 40%M 60%O	1.77
93.00	gco 5%G 95%O	1.30
0.00	126 Feet of weak gas in pipe	0.00

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58544

**DST#: 2**

ATTN: Ryan Seib

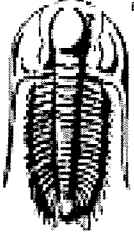
Test Start: 2015.04.04 @ 15:50:00

## Tool Information

Drill Pipe:	Length: 3873.55 ft	Diameter: 3.80 inches	Volume: 54.34 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: 120.59 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 54.93 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	25.64 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3992.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	101.50 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			3969.50	
Shut In Tool	5.00			3974.50	
Hydraulic tool	5.00			3979.50	
Jars	5.00			3984.50	
Safety Joint	2.50			3987.00	
Packer	5.00			3992.00	23.50 Bottom Of Top Packer
Packer - Shale	4.00			3996.00	
Stubb	1.00			3997.00	
Perforations	27.00			4024.00	
Change Over Sub	1.00			4025.00	
Recorder	0.00	8675	Inside	4025.00	
Recorder	0.00	8650	Outside	4025.00	
Drill Pipe	31.00			4056.00	
Change Over Sub	1.00			4057.00	
Perforations	10.00			4067.00	
Bullnose	3.00			4070.00	78.00 Anchor Tool
<b>Total Tool Length:</b>	<b>101.50</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
ATTN: Ryan Seib

**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
Job Ticket: 58544      **DST#: 2**  
Test Start: 2015.04.04 @ 15:50:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.56 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	w cmo 5%W 40%M 55%O	0.590
63.00	w cmo 5%W 10%M 85%O	0.878
126.00	mco 40%M 60%O	1.767
93.00	gco 5%G 95%O	1.305
0.00	126 Feet of weak gas in pipe	0.000

Total Length: 402.00 ft      Total Volume: 4.540 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: API: 29 @ 50 F = 30

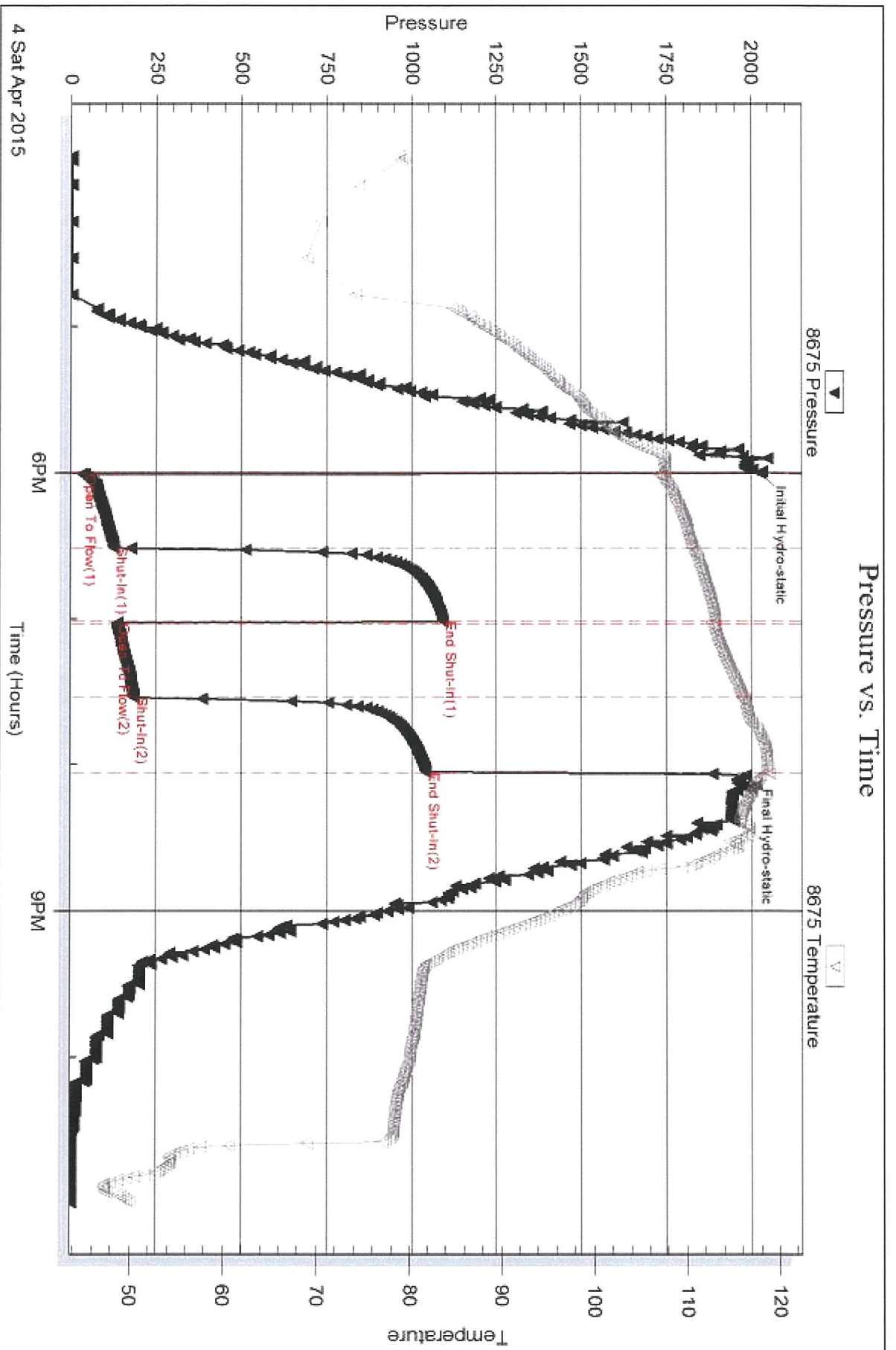
Serial #: 8675

Inside

Palomino Petroleum, Inc.

TRS-Hanna #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 58544

Printed: 2015 04 10 @ 11:59:19

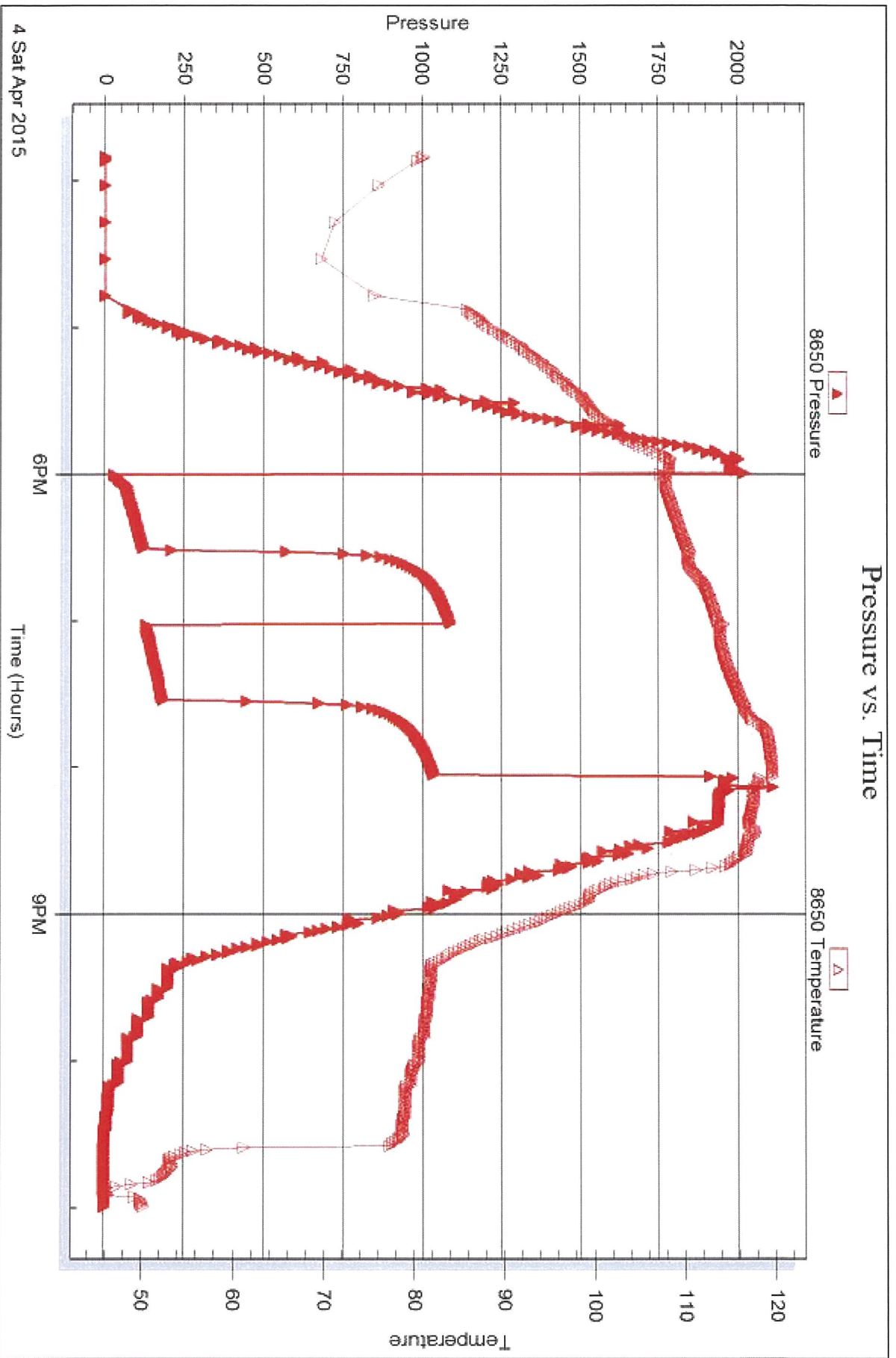
Serial #: 8650

Outside

Palomino Petroleum, Inc.

TRS-Hanna #1

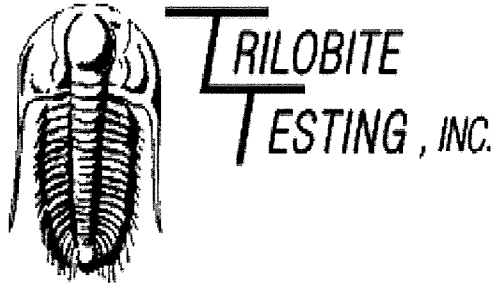
DST Test Number: 2



Tribble Testing, Inc

Ref. No: 58544

Printed: 2015.04.10 @ 11:59:20



## DRILL STEM TEST REPORT

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

4924 SE 84th  
Newton KS 67114-8827

ATTN: Ryan Seib

### **TRS-Hanna #1**

#### **11-14s-31w Gove,KS**

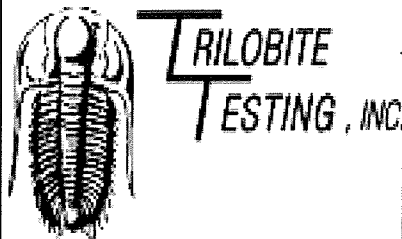
Start Date: 2015.04.05 @ 09:45:00

End Date: 2015.04.05 @ 15:52:00

Job Ticket #: 58545                      DST #: 3

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





# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
 4924 SE 84th  
 Newton KS 67114-8827  
 ATTN: Ryan Seib

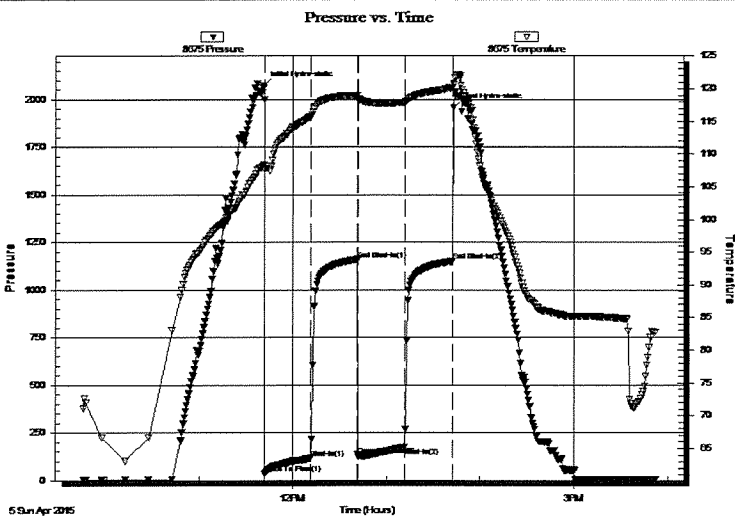
**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
 Job Ticket: 58545 **DST#: 3**  
 Test Start: 2015.04.05 @ 09:45:00

## GENERAL INFORMATION:

Formation: **LKC H**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 11:41:45 Tester: Jace McKinney  
 Time Test Ended: 15:52:00 Unit No: 75  
 Interval: **4119.00 ft (KB) To 4163.00 ft (KB) (TVD)** Reference Elevations: 2910.00 ft (KB)  
 Total Depth: 4163.00 ft (KB) (TVD) 2905.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

**Serial #: 8675 Inside**  
 Press@RunDepth: 173.61 psig @ 4126.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.04.05 End Date: 2015.04.05 Last Calib.: 2015.04.05  
 Start Time: 09:45:15 End Time: 15:52:00 Time On Btm: 2015.04.05 @ 11:41:15  
 Time Off Btm: 2015.04.05 @ 13:42:45

**TEST COMMENT:** B.O.B. in 9 min.  
 Bled off for 5 min Surface return blow  
 B.O.B. in 8 min.  
 Bled off for 5 min, Built to 3/4" return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2073.49	108.36	Initial Hydro-static
1	33.37	107.72	Open To Flow (1)
31	116.97	115.74	Shut-In(1)
61	1159.12	118.94	End Shut-In(1)
61	132.20	118.22	Open To Flow (2)
91	173.61	117.92	Shut-In(2)
122	1150.63	120.18	End Shut-In(2)
122	1955.67	120.60	Final Hydro-static

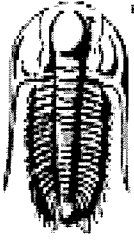
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	834 Feet Gas In Pipe	0.00
120.00	mcgo 20%M 30%G 50%O	0.59
126.00	ocg 40%O 60%G	1.76
171.00	mcgo 10%M 20%G 70%O	2.40

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
 4924 SE 84th  
 Newton KS 67114-8827  
 ATTN: Ryan Seib

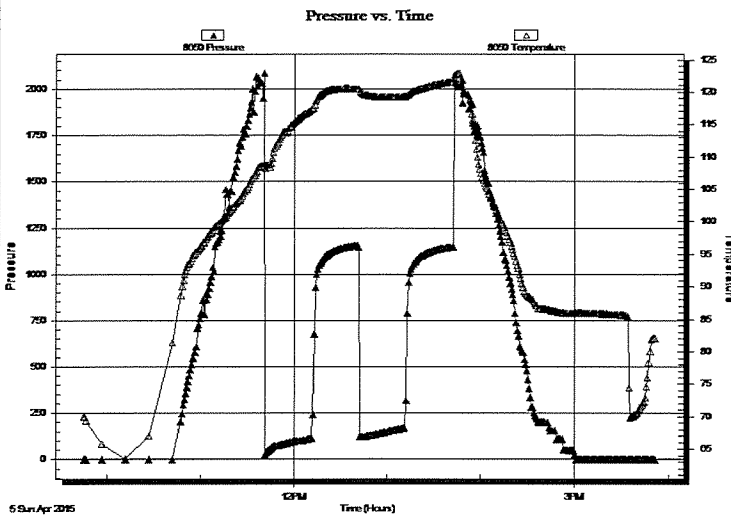
**11-14s-31w Gove, KS**  
**TRS-Hanna #1**  
 Job Ticket: 58545 **DST#: 3**  
 Test Start: 2015.04.05 @ 09:45:00

## GENERAL INFORMATION:

Formation: **LKC H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:41:45  
 Time Test Ended: 15:52:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 75  
 Interval: **4119.00 ft (KB) To 4163.00 ft (KB) (TVD)**  
 Total Depth: 4163.00 ft (KB) (TVD)  
 Reference Elevations: 2910.00 ft (KB)  
 2905.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 KB to GR/CF: 5.00 ft

**Serial #: 8650** **Outside**  
 Press@RunDepth: psig @ 4126.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2015.04.05 End Date: 2015.04.05 Last Calib.: 2015.04.05  
 Start Time: 09:45:15 End Time: 15:51:45 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** B.O.B. in 9 min.  
 Bled off for 5 min Surface return blow  
 B.O.B. in 8 min.  
 Bled off for 5 min, Built to 3/4" return blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	834 Feet Gas In Pipe	0.00
120.00	mcgo 20%M 30%G 50%O	0.59
126.00	ocg 40%O 60%G	1.76
171.00	mcgo 10%M 20%G 70%O	2.40

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58545

**DST#: 3**

ATTN: Ryan Seib

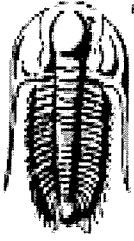
Test Start: 2015.04.05 @ 09:45:00

## Tool Information

Drill Pipe:	Length: 3991.94 ft	Diameter: 3.80 inches	Volume: 56.00 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: 30000.00 lb
Drill Collar:	Length: 120.59 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
		Total Volume: 56.59 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.03 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	4119.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.50 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			4091.50	
Shut In Tool	5.00			4096.50	
Hydraulic tool	5.00			4101.50	
Jars	5.00			4106.50	
Safety Joint	2.50			4109.00	
Packer	5.00			4114.00	28.50 Bottom Of Top Packer
Packer	5.00			4119.00	
Stubb	1.00			4120.00	
Perforations	5.00			4125.00	
Change Over Sub	1.00			4126.00	
Recorder	0.00	8675	Inside	4126.00	
Recorder	0.00	8650	Outside	4126.00	
Drill Pipe	31.00			4157.00	
Change Over Sub	1.00			4158.00	
Perforations	1.00			4159.00	
Bullnose	3.00			4162.00	43.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>71.50</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
ATTN: Ryan Seib

**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
Job Ticket: 58545      **DST#: 3**  
Test Start: 2015.04.05 @ 09:45:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.17 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4500.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	834 Feet Gas In Pipe	0.000
120.00	mcgo 20%M 30%G 50%O	0.590
126.00	ocg 40%O 60%G	1.762
171.00	mcgo 10%M 20%G 70%O	2.399

Total Length: 417.00 ft      Total Volume: 4.751 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: API: 38 @ 80 F = 36

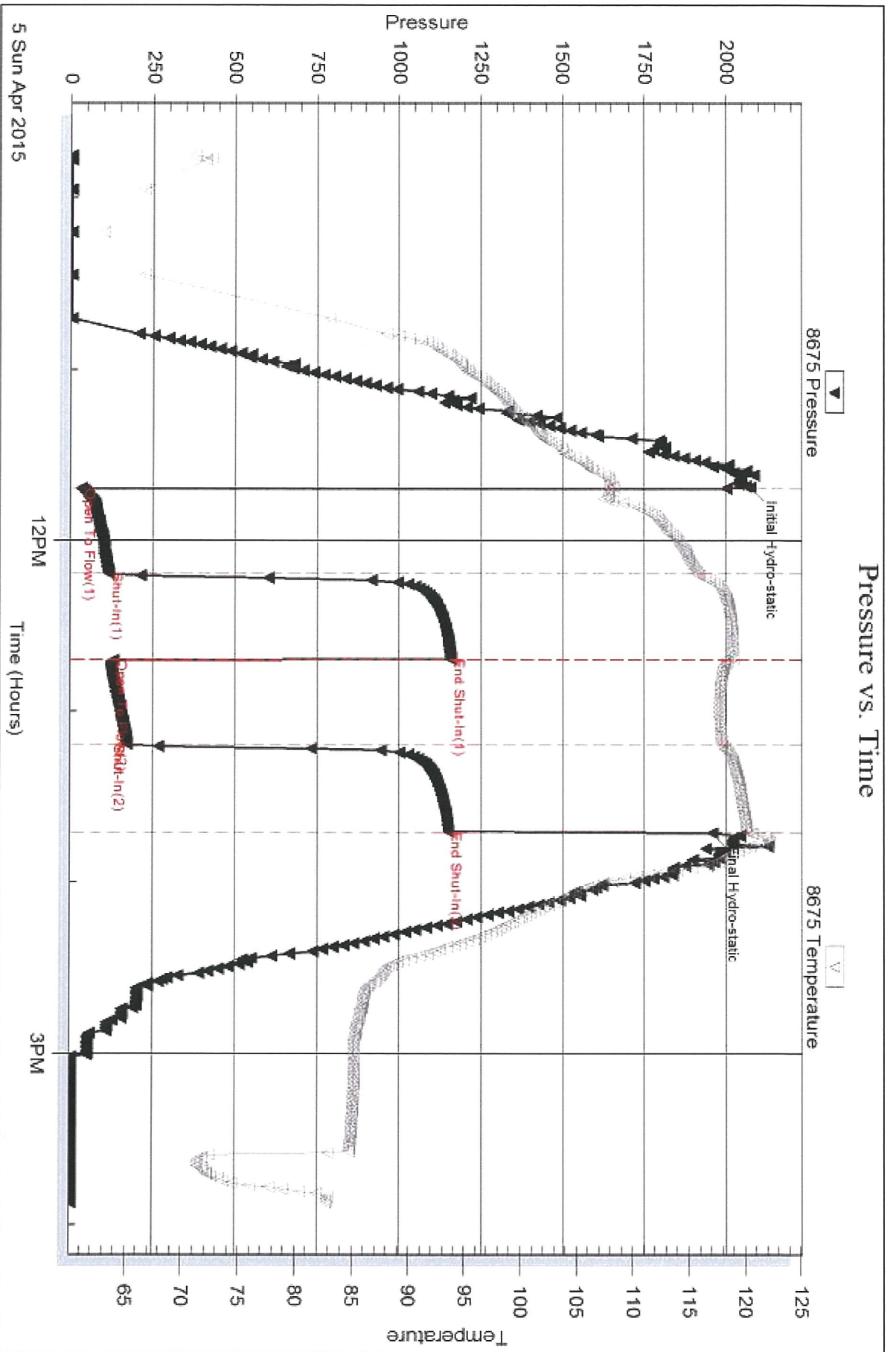
Serial #: 8675

Inside

Palomino Petroleum, Inc.

TRS-Hanna #1

DST Test Number: 3



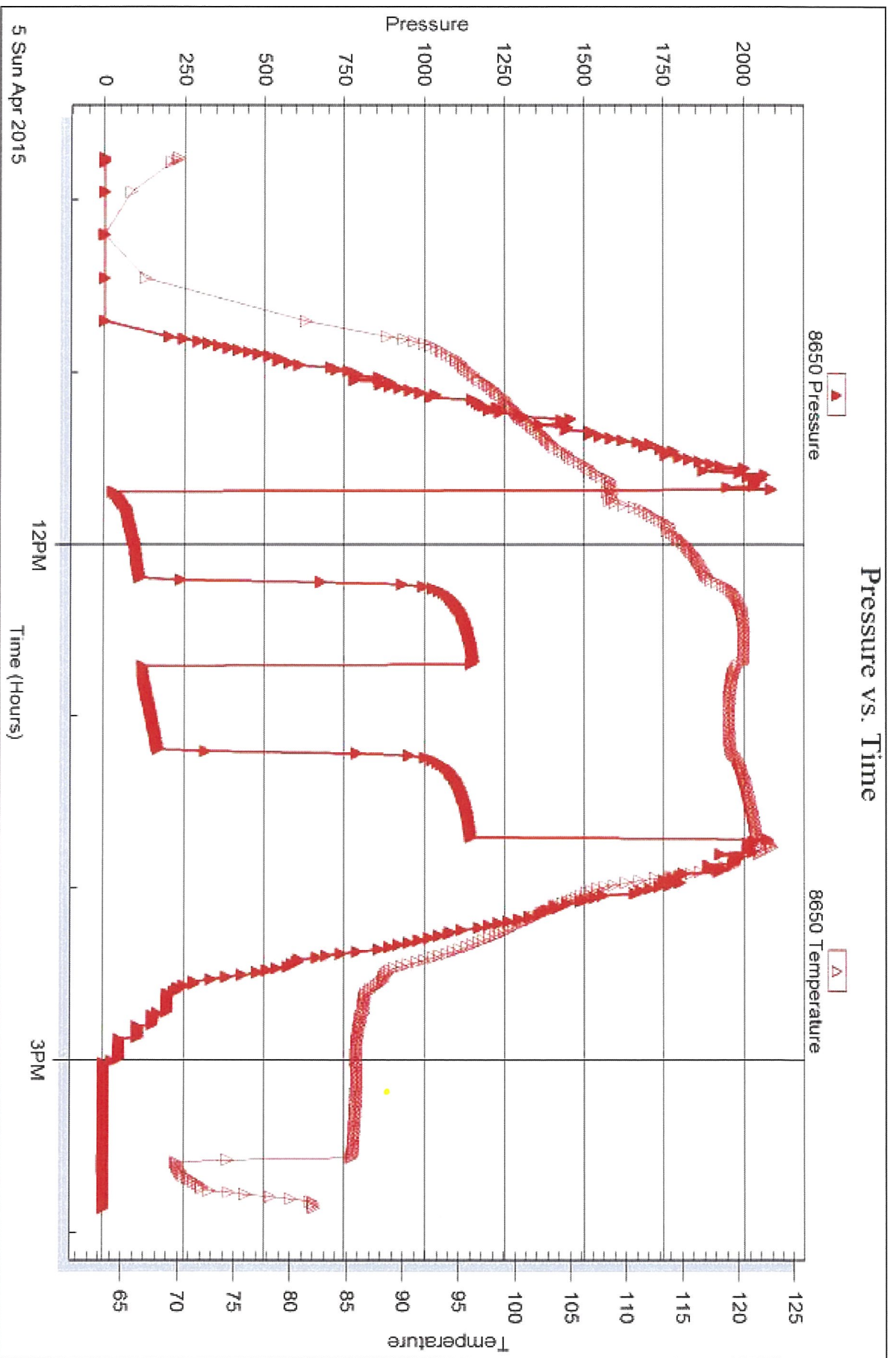
Serial #: 8650

Outside

Palomino Petroleum, Inc.

TRS-Hanna #1

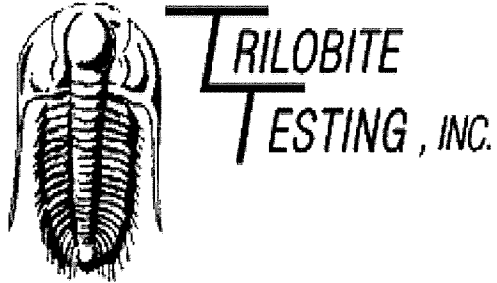
DST Test Number: 3



Tribble Testing, Inc

Ref. No: 58545

Printed: 2015 04 10 @ 11:58:20



## DRILL STEM TEST REPORT

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

4924 SE 84th  
Newton KS 67114-8827

ATTN: Ryan Seib

### **TRS-Hanna #1**

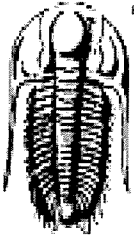
#### **11-14s-31w Gove,KS**

Start Date: 2015.04.06 @ 00:15:00

End Date: 2015.04.06 @ 07:35:15

Job Ticket #: 58546                      DST #: 4

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
ATTN: Ryan Seib

**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
Job Ticket: 58546      **DST#: 4**  
Test Start: 2015.04.06 @ 00:15:00

## GENERAL INFORMATION:

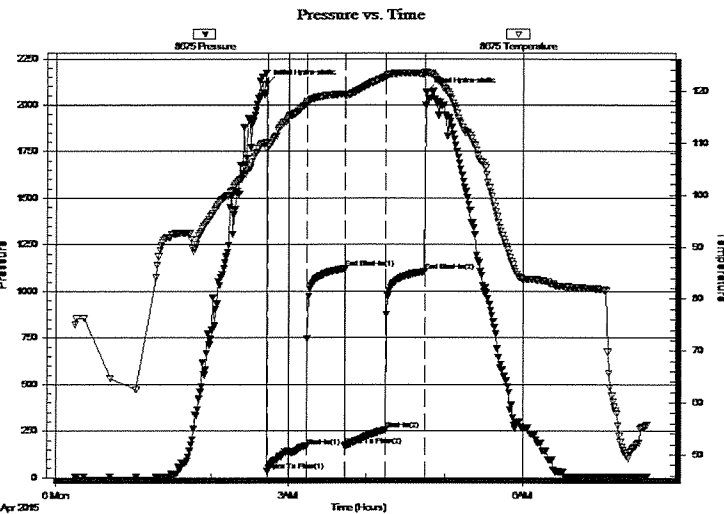
Formation: **LKC I-J**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:43:15  
Time Test Ended: 07:35:15  
Interval: **4154.00 ft (KB) To 4216.00 ft (KB) (TVD)**  
Total Depth: 4216.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jace McKinney  
Unit No: 75  
Reference Elevations: 2910.00 ft (KB)  
2905.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 8675

Inside

Press@RunDepth: 255.08 psig @ 4170.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.04.06 End Date: 2015.04.06 Last Calib.: 2015.04.06  
Start Time: 00:15:15 End Time: 07:35:15 Time On Btm: 2015.04.06 @ 02:43:00  
Time Off Btm: 2015.04.06 @ 04:46:00

TEST COMMENT: B.O.B. in 8 min.  
Bled off for 5 min, Built to 1" return blow  
B.O.B. in 7 1/2 min.  
Bled off for 5 min, Built to 6" return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.86	110.07	Initial Hydro-static
1	34.41	108.82	Open To Flow (1)
31	168.43	117.64	Shut-In(1)
61	1120.77	119.47	End Shut-In(1)
61	172.16	119.15	Open To Flow (2)
92	255.08	122.74	Shut-In(2)
122	1105.75	123.40	End Shut-In(2)
123	2071.50	123.59	Final Hydro-static

## Recovery

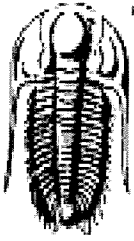
Length (ft)	Description	Volume (bbl)
120.00	mcw 10%M 90%W w ith oil scum	0.59
126.00	w cgom 5%W 10%G 10%O 75%M	1.76
63.00	gcmo 20%G 30%M 50%O	0.88
126.00	gco 30%G 70%O	1.77
126.00	mco 50%M 50%O	1.77
0.00	567 Feet Gas In Pipe	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
ATTN: Ryan Seib

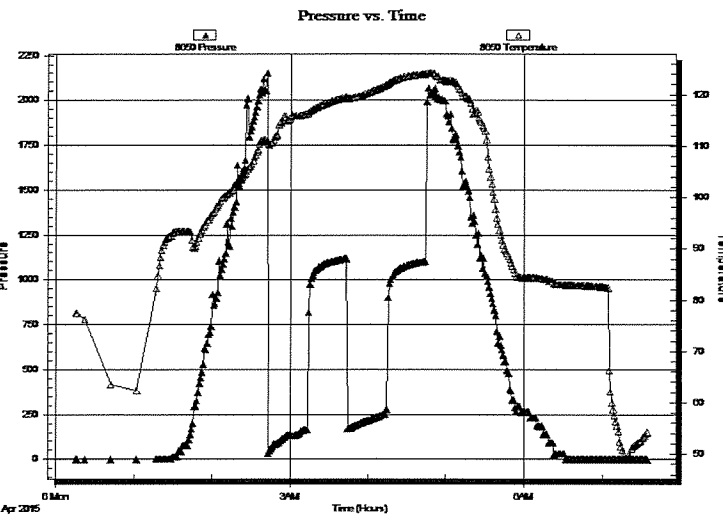
**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
Job Ticket: 58546 **DST#: 4**  
Test Start: 2015.04.06 @ 00:15:00

## GENERAL INFORMATION:

Formation: **LKC I-J**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:43:15  
Time Test Ended: 07:35:15  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jace McKinney  
Unit No: 75  
Interval: **4154.00 ft (KB) To 4216.00 ft (KB) (TVD)**  
Reference Elevations: 2910.00 ft (KB)  
Total Depth: 4216.00 ft (KB) (TVD)  
3005.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good  
KB to GR/CF: 5.00 ft

**Serial #: 8650** **Outside**  
Press@RunDepth: psig @ 4170.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2015.04.06 End Date: 2015.04.06 Last Calib.: 2015.04.06  
Start Time: 00:15:15 End Time: 07:35:00 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** B.O.B. in 8 min.  
Bled off for 5 min, Built to 1" return blow  
B.O.B. in 7 1/2 min.  
Bled off for 5 min, Built to 6" return blow



## PRESSURE SUMMARY

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

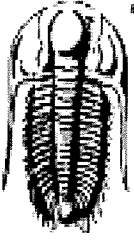
## Recovery

Length (ft)	Description	Volume (bbl)
120.00	mcw 10%M 90%W w ith oil scum	0.59
126.00	w cgom 5%W 10%G 10%O 75%M	1.76
63.00	gcmb 20%G 30%M 50%O	0.88
126.00	gco 30%G 70%O	1.77
126.00	mco 50%M 50%O	1.77
0.00	567 Feet Gas In Pipe	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
ATTN: Ryan Seib

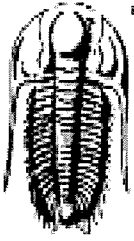
**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
Job Ticket: 58546      **DST#: 4**  
Test Start: 2015.04.06 @ 00:15:00

**Tool Information**

Drill Pipe:	Length: 4022.08 ft	Diameter: 3.80 inches	Volume: 56.42 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: 120.59 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	60000.00 lb
		Total Volume: 57.01 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	17.17 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	4154.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	62.00 ft				
Tool Length:	90.50 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			4126.50	
Shut In Tool	5.00			4131.50	
Hydraulic tool	5.00			4136.50	
Jars	5.00			4141.50	
Safety Joint	2.50			4144.00	
Packer	5.00			4149.00	28.50      Bottom Of Top Packer
Packer	5.00			4154.00	
Stubb	1.00			4155.00	
Perforations	14.00			4169.00	
Change Over Sub	1.00			4170.00	
Recorder	0.00	8675	Inside	4170.00	
Recorder	0.00	8650	Outside	4170.00	
Drill Pipe	32.00			4202.00	
Change Over Sub	1.00			4203.00	
Perforations	10.00			4213.00	
Bullnose	3.00			4216.00	62.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>90.50</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58546

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2015.04.06 @ 00:15:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 7.18 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4500.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 38 deg API  
Water Salinity: 40000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mcw 10%M 90%W with oil scum	0.590
126.00	w cgom 5%W 10%G 10%O 75%M	1.762
63.00	gcmo 20%G 30%M 50%O	0.884
126.00	gco 30%G 70%O	1.767
126.00	mco 50%M 50%O	1.767
0.00	567 Feet Gas In Pipe	0.000

Total Length: 561.00 ft      Total Volume: 6.770 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: API: 37 @ 50 F = 38  
RW: .30 @ 50 F = 40,000

Serial #: 8675

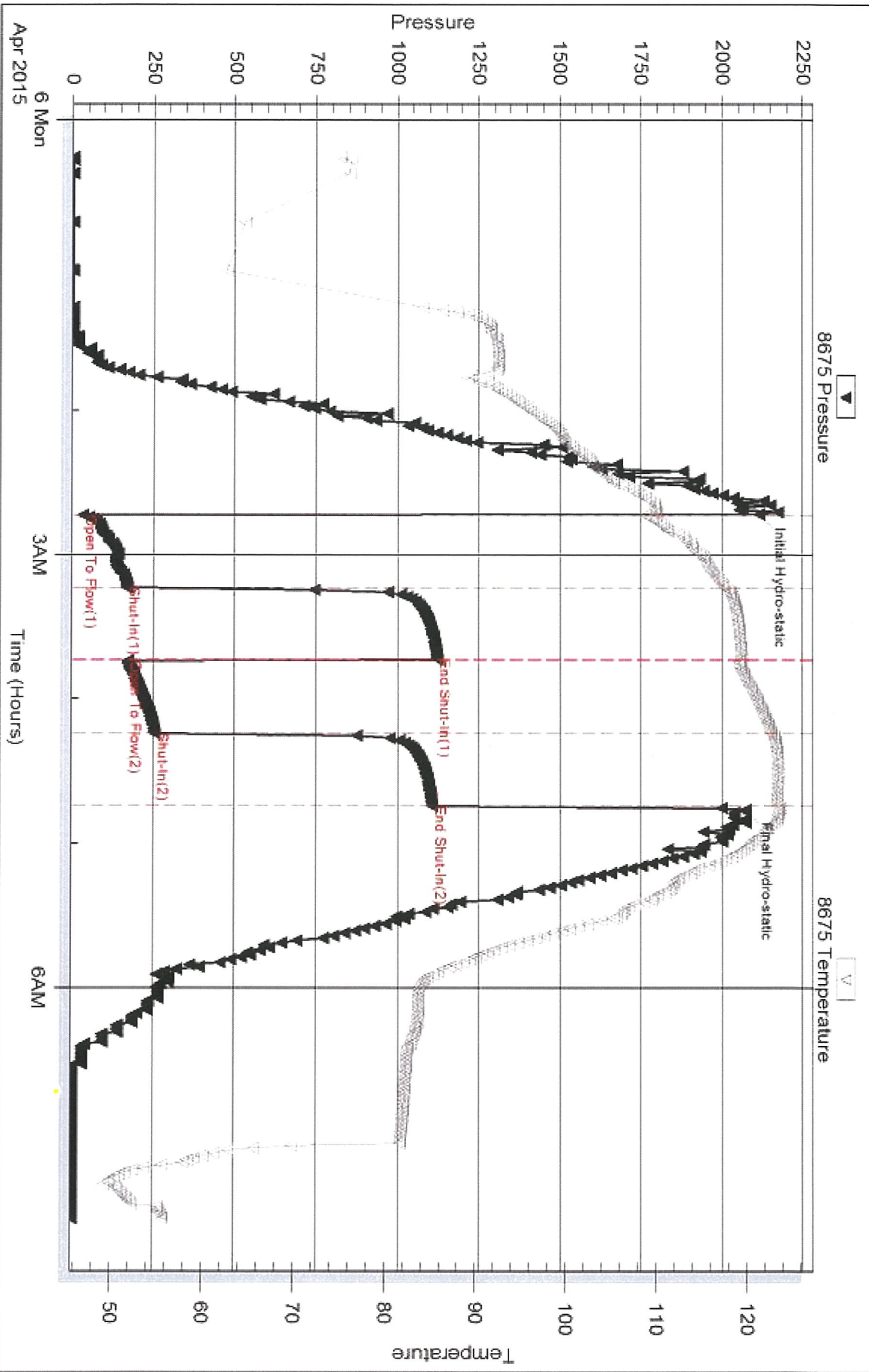
Inside

Palomino Petroleum, Inc.

TR5-Hanna #1

OST Test Number: 4

### Pressure vs. Time

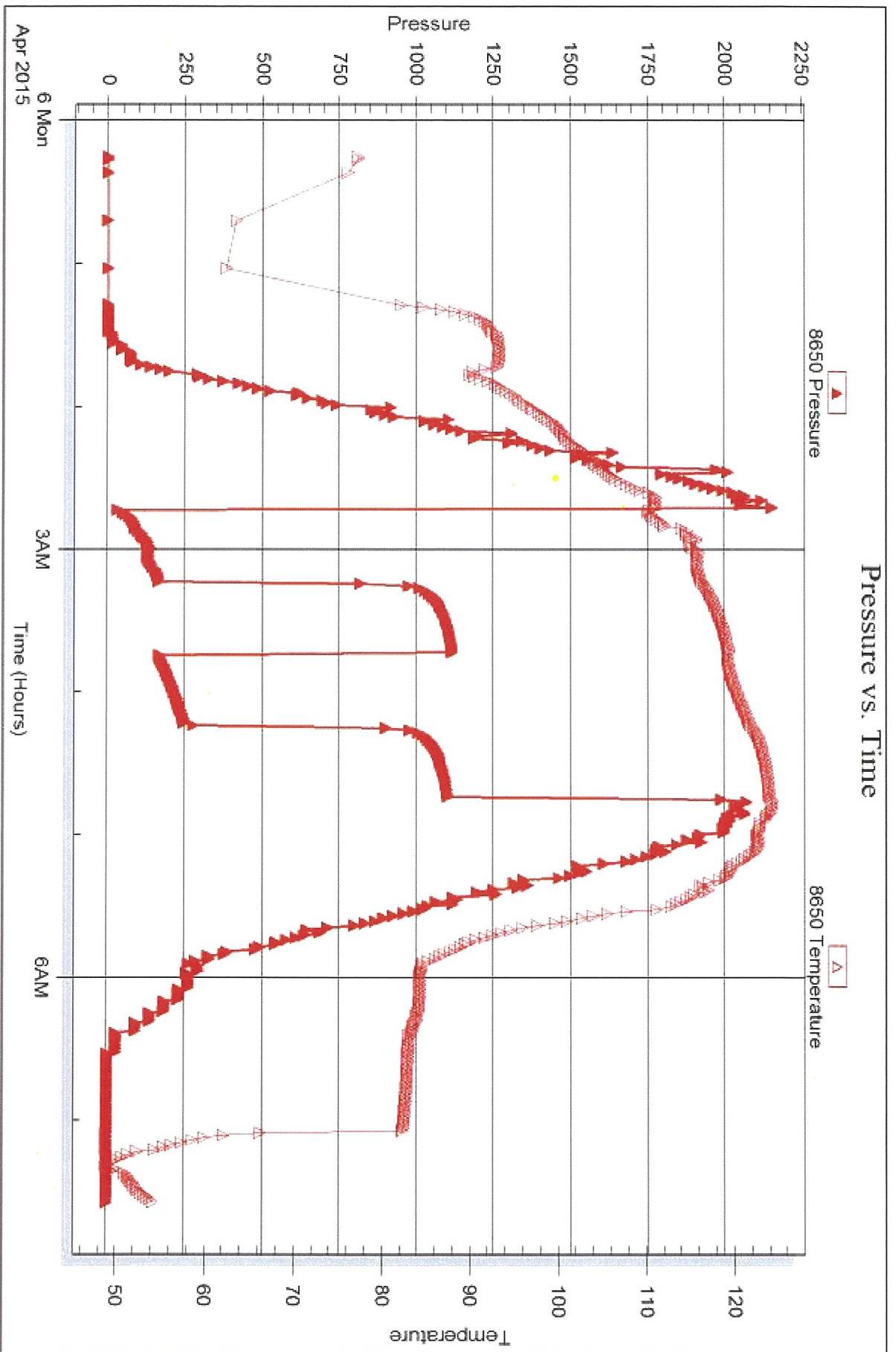


Serial #: 8650

Outside Palomino Petroleum, Inc.

TRC-Hanna #1

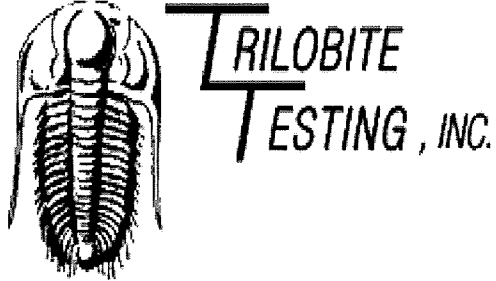
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 58546

Printed 2015.04.10 @ 11:57:28



## DRILL STEM TEST REPORT

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

4924 SE 84th  
Newton KS 67114-8827

ATTN: Ryan Seib

### **TRS-Hanna #1**

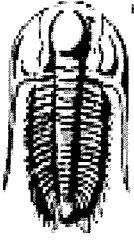
#### **11-14s-31w Gove,KS**

Start Date: 2015.04.06 @ 13:17:00

End Date: 2015.04.06 @ 19:41:00

Job Ticket #: 58547                      DST #: 5

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
 4924 SE 84th  
 Newton KS 67114-8827  
 ATTN: Ryan Seib

**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
 Job Ticket: 58547      **DST#: 5**  
 Test Start: 2015.04.06 @ 13:17:00

## GENERAL INFORMATION:

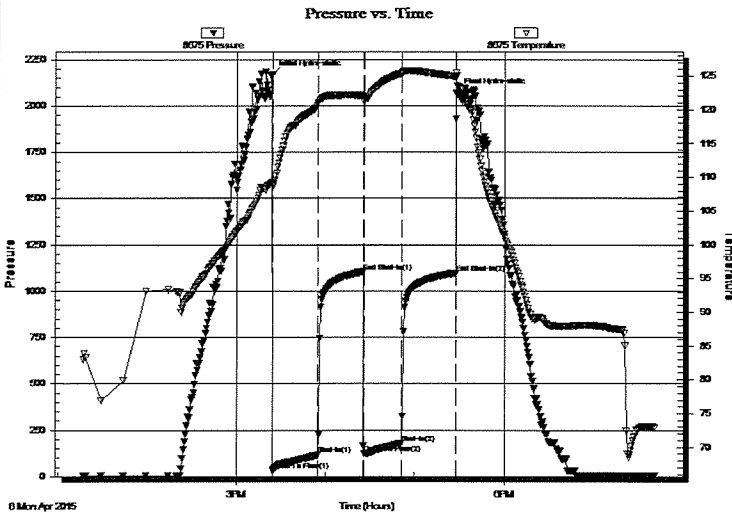
Formation: **LKC K**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 15:24:30  
 Time Test Ended: 19:41:00  
**Interval: 4208.00 ft (KB) To 4236.00 ft (KB) (TVD)**  
 Total Depth: 4236.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 75  
 Reference Elevations: 2910.00 ft (KB)  
 2905.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8675

Inside

Press@RunDepth: 177.55 psig @ 4233.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2015.04.06      End Date: 2015.04.06      Last Calib.: 2015.04.06  
 Start Time: 13:17:15      End Time: 19:41:00      Time On Btm: 2015.04.06 @ 15:24:00  
 Time Off Btm: 2015.04.06 @ 17:28:00

**TEST COMMENT:** B.O.B. in 7 1/4 min.  
 Bled off for 5 min, Built to 2 1/2 " return blow  
 B.O.B. in 6 min.  
 Bled off for 5 min, Built to 4" return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.32	109.31	Initial Hydro-static
1	31.45	108.62	Open To Flow (1)
31	115.42	120.99	Shut-In(1)
62	1104.46	122.07	End Shut-In(1)
62	124.02	121.69	Open To Flow (2)
88	177.55	125.42	Shut-In(2)
124	1098.55	124.90	End Shut-In(2)
124	2071.00	124.98	Final Hydro-static

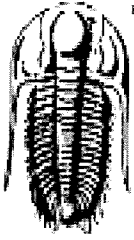
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1030 Feet Gas In Pipe	0.00
60.00	gcmw 10%G 40%M 50%W	0.30
126.00	w cmgo 2%W 18%M 40%G 40%O	1.22
224.00	gco 10%G 90%O	3.14

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
ATTN: Ryan Seib

**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
Job Ticket: 58547      **DST#: 5**  
Test Start: 2015.04.06 @ 13:17:00

## GENERAL INFORMATION:

Formation: **LKC K**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 15:24:30  
 Time Test Ended: 19:41:00

Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 75

Interval: **4208.00 ft (KB) To 4236.00 ft (KB) (TVD)**  
 Total Depth: 4236.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

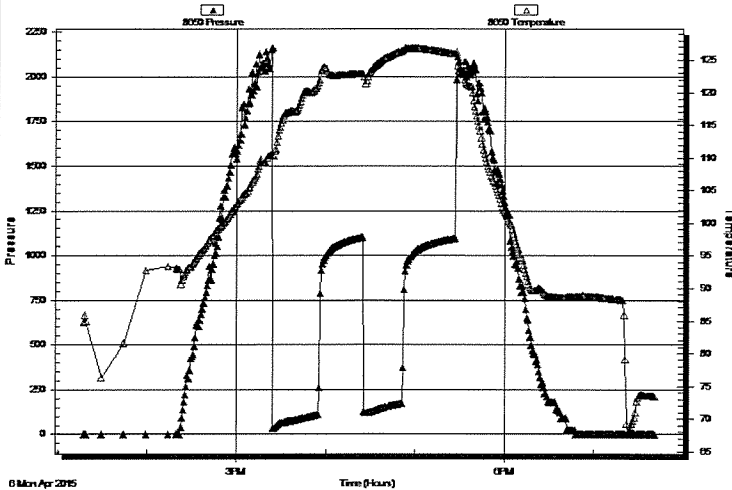
Reference Elevations: 2910.00 ft (KB)  
 2905.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8650      Outside**

Press@RunDepth:                      psig @	4233.00 ft (KB)	Capacity:	8000.00 psig
Start Date: 2015.04.06	End Date: 2015.04.06	Last Calib.:	2015.04.06
Start Time: 13:17:15	End Time: 19:41:00	Time On Btm:	
		Time Off Btm:	

**TEST COMMENT:** B.O.B. in 7 1/4 min.  
 Bled off for 5 min, Built to 2 1/2 " return blow  
 B.O.B. in 6 min.  
 Bled off for 5 min, Built to 4" return blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

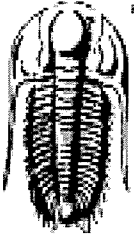
Length (ft)	Description	Volume (bbl)
0.00	1030 Feet Gas In Pipe	0.00
60.00	gcmw 10%G 40%M 50%W	0.30
126.00	w cmgo 2%W 18%M 40%G 40%O	1.22
224.00	gco 10%G 90%O	3.14

\* Recovery from multiple tests

Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58547

**DST#: 5**

ATTN: Ryan Seib

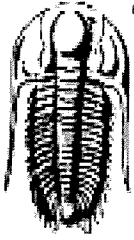
Test Start: 2015.04.06 @ 13:17:00

## Tool Information

Drill Pipe:	Length: 4087.05 ft	Diameter: 3.80 inches	Volume: 57.33 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: 120.59 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 61000.00 lb
			<u>Total Volume: 57.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.14 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	4208.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.50 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			4180.50	
Shut In Tool	5.00			4185.50	
Hydraulic tool	5.00			4190.50	
Jars	5.00			4195.50	
Safety Joint	2.50			4198.00	
Packer	5.00			4203.00	28.50 Bottom Of Top Packer
Packer	5.00			4208.00	
Stubb	1.00			4209.00	
Perforations	24.00			4233.00	
Change Over Sub	0.00			4233.00	
Recorder	0.00	8675	Inside	4233.00	
Recorder	0.00	8650	Outside	4233.00	
Drill Pipe	0.00			4233.00	
Change Over Sub	0.00			4233.00	
Perforations	0.00			4233.00	
Bullnose	3.00			4236.00	28.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>56.50</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58547

**DST#: 5**

ATTN: Ryan Seib

Test Start: 2015.04.06 @ 13:17:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 37 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 41000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.56 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4400.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1030 Feet Gas In Pipe	0.000
60.00	gcmw 10%G 40%M 50%W	0.295
126.00	w cmgo 2%W 18%M 40%G 40%O	1.216
224.00	gco 10%G 90%O	3.142

Total Length: 410.00 ft      Total Volume: 4.653 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: API: 39 @ 80 F = 37  
RW .15 @ 80 F = 41000

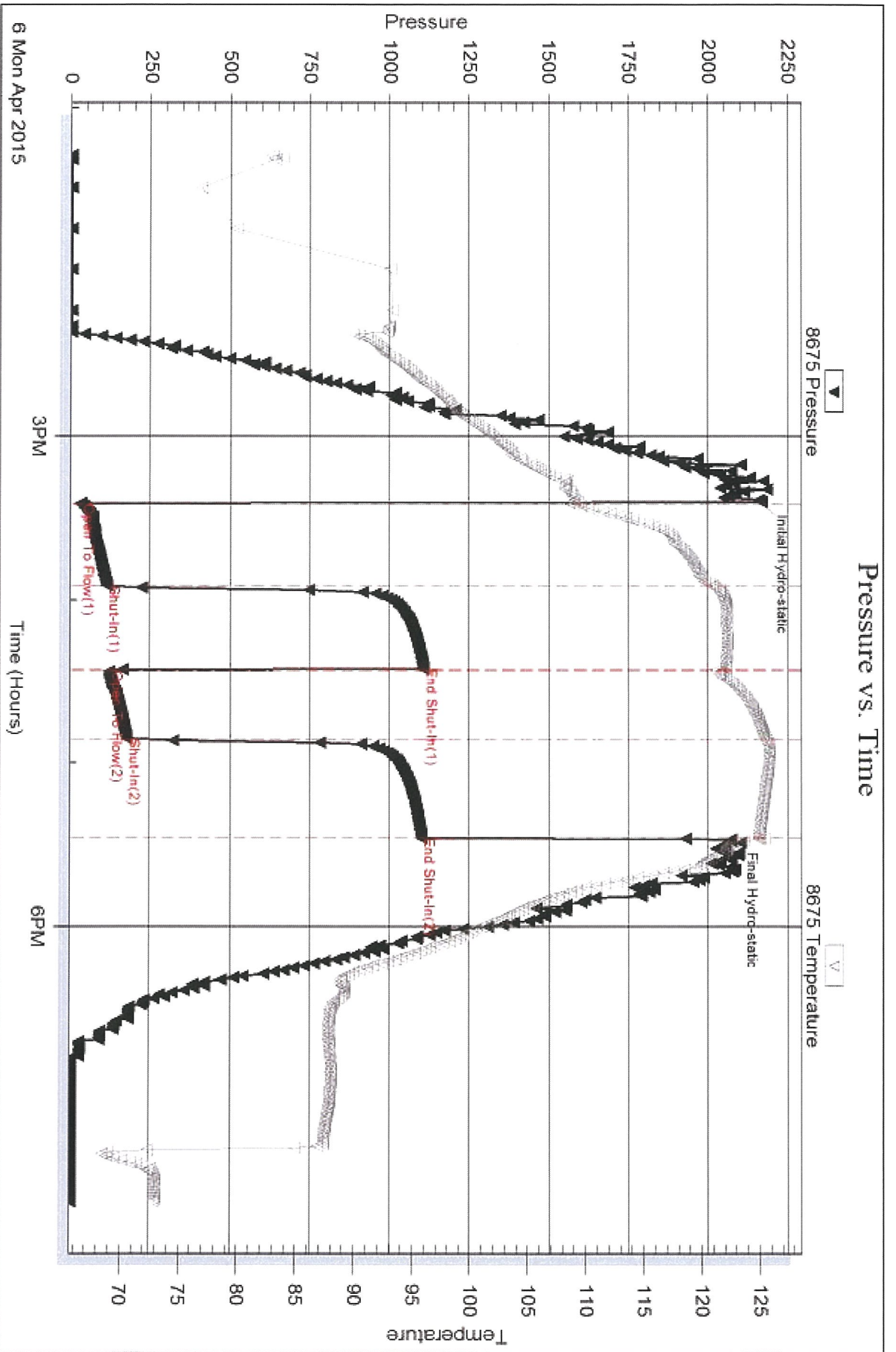
Serial #: 8675

Inside

Palomino Petroleum, Inc.

TRSS-Hanna #1

DST Test Number: 5



6 Mon Apr 2015

3PM

Time (Hours)

6PM

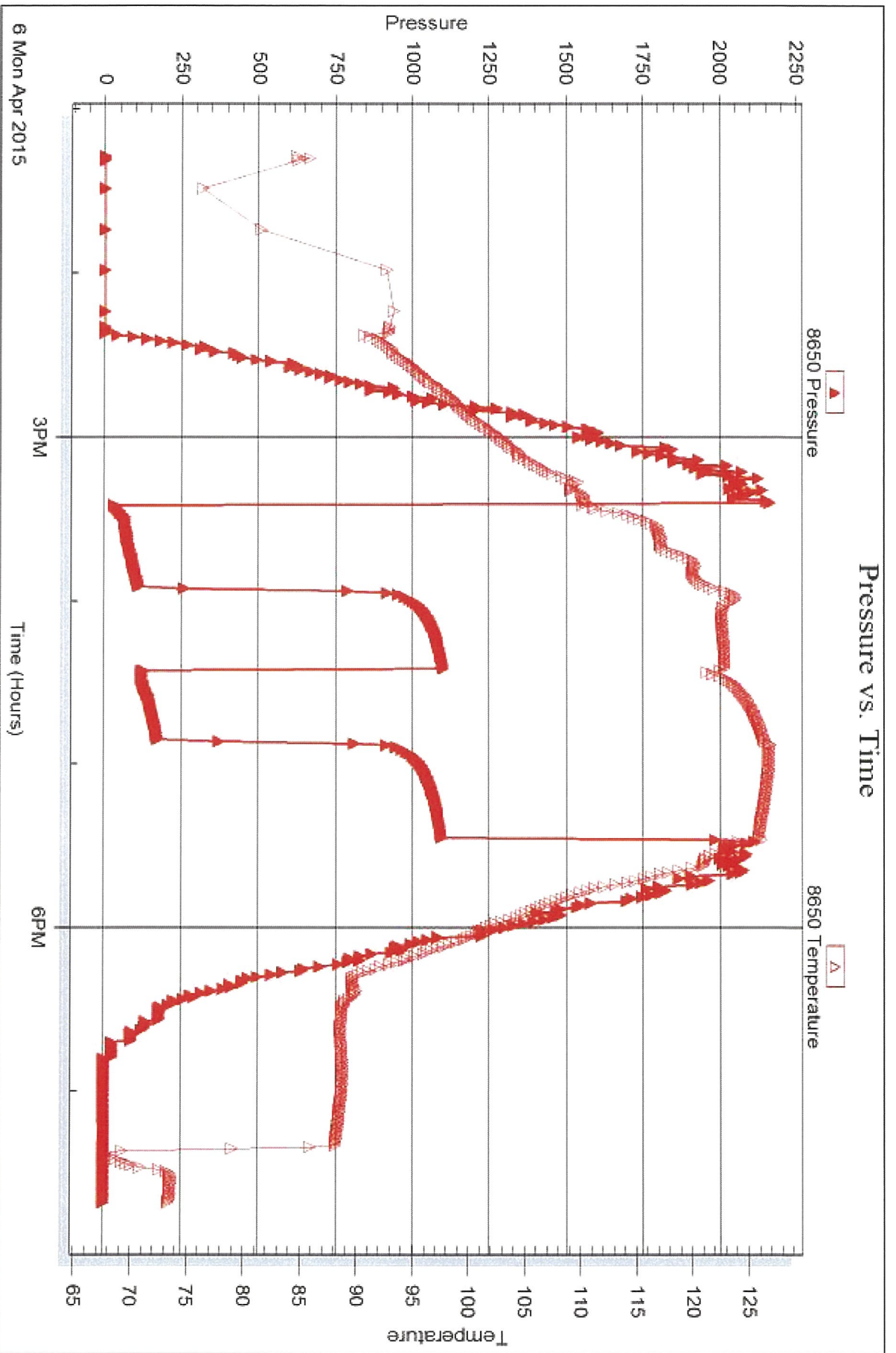
Serial #: 8650

Outside

Palomino Petroleum, Inc.

TRS-Hanna #1

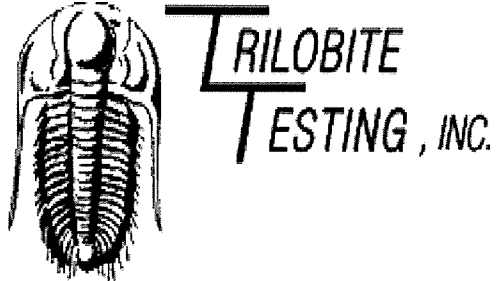
DST Test Number: 5



Trickle Testing, Inc

Ref. No: 58547

Printed: 2015.04.10 @ 11:57:02



## DRILL STEM TEST REPORT

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

4924 SE 84th  
Newton KS 67114-8827

ATTN: Ryan Seib

### **TRS-Hanna #1**

#### **11-14s-31w Gove,KS**

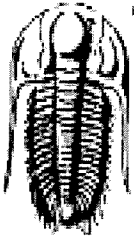
Start Date: 2015.04.08 @ 00:38:00

End Date: 2015.04.08 @ 08:51:30

Job Ticket #: 58548                      DST #: 6

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

Printed: 2015.04.10 @ 11:56:12



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58548

**DST#: 6**

ATTN: Ryan Seib

Test Start: 2015.04.08 @ 00:38:00

## GENERAL INFORMATION:

Formation: **Fort Scott - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:59:15

Time Test Ended: 08:51:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: **4457.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Reference Elevations: 2910.00 ft (KB)

Total Depth: 4565.00 ft (KB) (TVD)

2905.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8675**

**Inside**

Press@RunDepth: 943.81 psig @ 4488.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.04.08

End Date:

2015.04.08

Last Calib.:

2015.04.08

Start Time: 00:38:15

End Time:

08:51:30

Time On Btm:

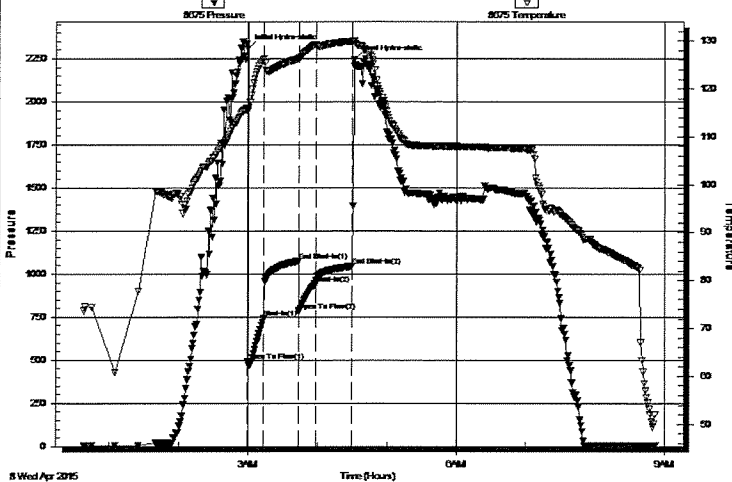
2015.04.08 @ 02:59:00

Time Off Btm:

2015.04.08 @ 04:31:30

**TEST COMMENT:** B.O.B. in 45 sec.  
Bled off for 8 min, B.O.B. in 12 1/2 min.  
B.O.B. w hen opened, Gas to surface in 10 min.  
Bled off for 8 min, B.O.B. in 12 min.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2308.99	115.96	Initial Hydro-static
1	494.54	115.29	Open To Flow (1)
15	741.79	126.33	Shut-In(1)
45	1074.74	126.25	End Shut-In(1)
45	784.85	126.15	Open To Flow (2)
59	943.81	129.23	Shut-In(2)
91	1044.28	129.91	End Shut-In(2)
93	2246.47	129.92	Final Hydro-static

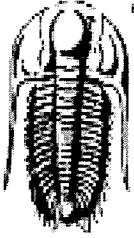
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	1675 Feet Gas In Pipe	0.00
183.00	gcom 10%G 40%O 50%M	1.47
2676.00	Clean Oil, Drop the bar	37.54
0.00	10 min gco 10%G 90%O	0.00
0.00	20 qnd 30 min gco 20%G 80%O	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
ATTN: Ryan Seib

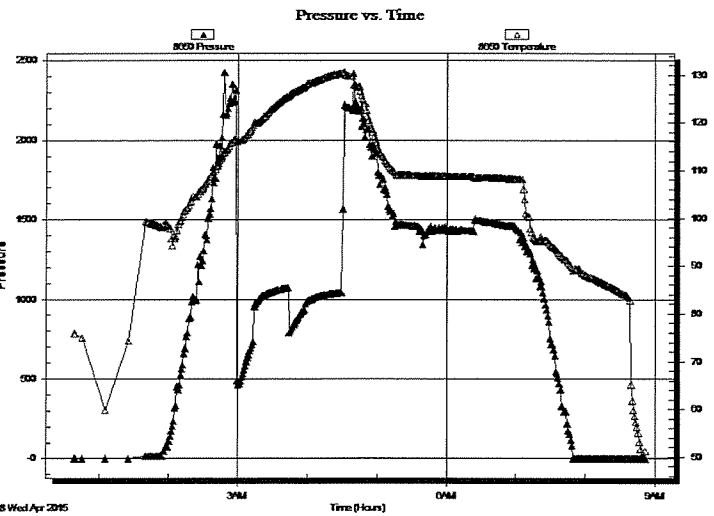
**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
Job Ticket: 58548      **DST#: 6**  
Test Start: 2015.04.08 @ 00:38:00

**GENERAL INFORMATION:**

Formation: **Fort Scott - Johnson**  
Deviated: No    Whipstock:                          ft (KB)  
Time Tool Opened: 02:59:15  
Time Test Ended: 08:51:30  
**Interval: 4457.00 ft (KB) To 4565.00 ft (KB) (TVD)**  
Total Depth: 4565.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jace McKinney  
Unit No: 75  
Reference Elevations: 2910.00 ft (KB)  
2905.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8650      Outside**  
Press@RunDepth:                          psig @      4488.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2015.04.08      End Date: 2015.04.08      Last Calib.: 2015.04.08  
Start Time: 00:38:15      End Time: 08:51:15      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** B.O.B. in 45 sec.  
Bled off for 8 min, B.O.B. in 12 1/2 min.  
B.O.B. w hen opened, Gas to surface in 10 min.  
Bled off for 8 min, B.O.B. in 12 min.

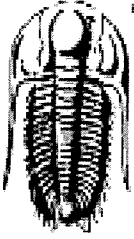


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	1675 Feet Gas In Pipe	0.00
183.00	gcom 10%G 40%O 50%M	1.47
2676.00	Clean Oil, Drop the bar	37.54
0.00	10 min gco 10%G 90%O	0.00
0.00	20 qnd 30 min gco 20%G 80%O	0.00

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
ATTN: Ryan Seib

**11-14s-31w Gove,KS**  
**TRS-Hanna #1**  
Job Ticket: 58548      **DST#: 6**  
Test Start: 2015.04.08 @ 00:38:00

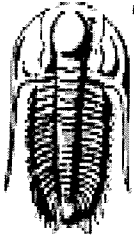
## Tool Information

Drill Pipe:	Length: 4335.40 ft	Diameter: 3.80 inches	Volume: 60.81 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: 120.59 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 61.40 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.49 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4457.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.00 ft			
Tool Length:	136.50 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			4429.50	
Shut In Tool	5.00			4434.50	
Hydraulic tool	5.00			4439.50	
Jars	5.00			4444.50	
Safety Joint	2.50			4447.00	
Packer	5.00			4452.00	28.50      Bottom Of Top Packer
Packer	5.00			4457.00	
Stubb	1.00			4458.00	
Perforations	29.00			4487.00	
Change Over Sub	1.00			4488.00	
Recorder	0.00	8675	Inside	4488.00	
Recorder	0.00	8650	Outside	4488.00	
Drill Pipe	63.00			4551.00	
Change Over Sub	1.00			4552.00	
Perforations	10.00			4562.00	
Bullnose	3.00			4565.00	108.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>136.50</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58548

**DST#: 6**

ATTN: Ryan Seib

Test Start: 2015.04.08 @ 00:38:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 63.00 sec/qt  
Water Loss: 7.97 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4000.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 39 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1675 Feet Gas In Pipe	0.000
183.00	gcom 10%G 40%O 50%M	1.468
2676.00	Clean Oil, Drop the bar	37.537
0.00	10 min gco 10%G 90%O	0.000
0.00	20 qnd 30 min gco 20%G 80%O	0.000

Total Length: 2859.00 ft      Total Volume: 39.005 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: API 37 @ 40 F= 39

Serial #: 8675

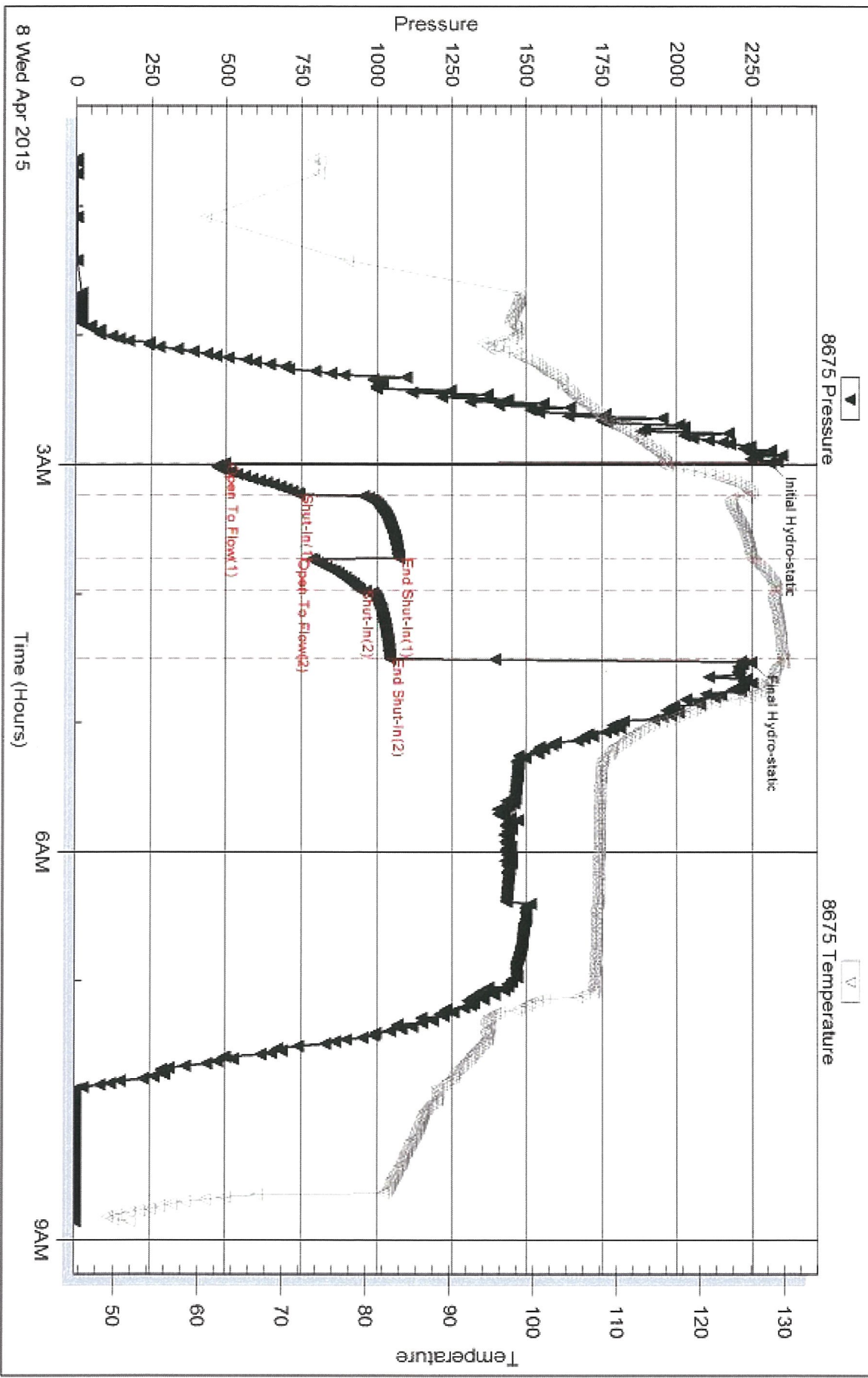
Inside

Palomino Petroleum, Inc.

TRG-Hanna #1

DST Test Number: 6

### Pressure vs. Time



Tribble Testing, Inc

Ref. No: 58548

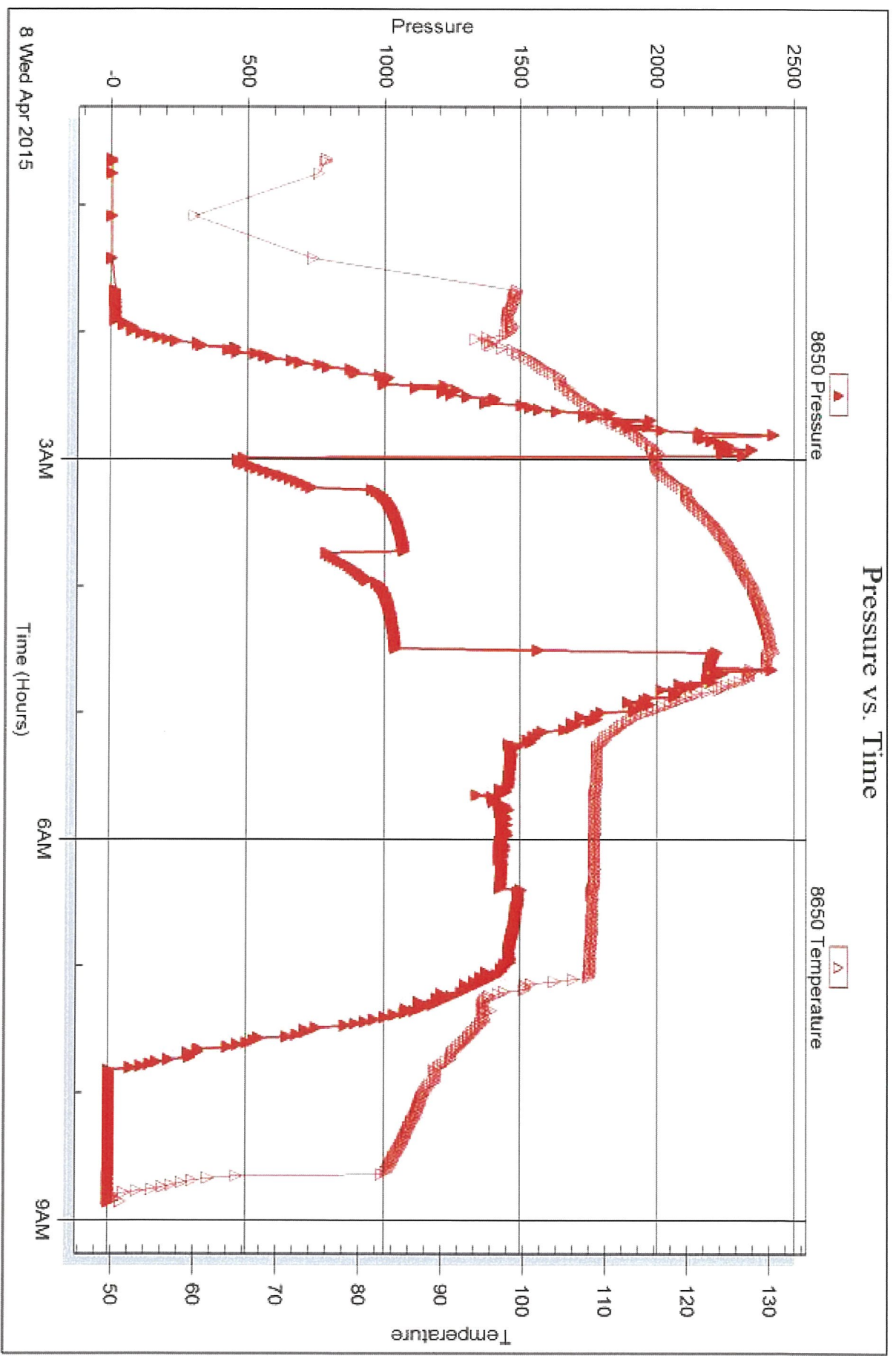
Printed: 2015.04.10 @ 11:56:15

Serial #: 8650

Outside Palomino Petroleum, Inc.

TFS-Hanna #1

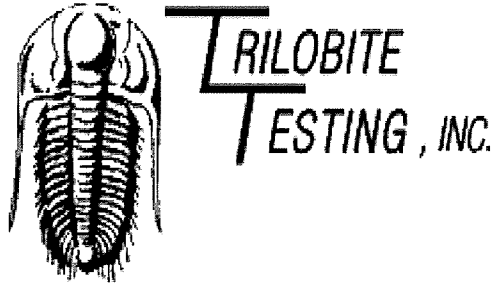
DST Test Number: 6



Tribble Testing, Inc

Ref. No: 58548

Printed: 2015 04 10 @ 11:56:16



## DRILL STEM TEST REPORT

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

4924 SE 84th  
Newton KS 67114-8827

ATTN: Ryan Seib

### **TRS-Hanna #1**

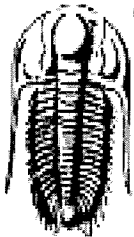
#### **11-14s-31w Gove,KS**

Start Date: 2015.04.09 @ 11:45:41

End Date: 2015.04.09 @ 18:49:56

Job Ticket #: 58549                      DST #: 7

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

ATTN: Ryan Seib

Job Ticket: 58549

**DST#:7**

Test Start: 2015.04.09 @ 11:45:41

## GENERAL INFORMATION:

Formation: **Marmaton - Myric Sta**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:23:11

Time Test Ended: 18:49:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: **4353.00 ft (KB) To 4457.00 ft (KB) (TVD)**

Reference Elevations: 2910.00 ft (KB)

Total Depth: 4767.00 ft (KB) (TVD)

2905.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8675** Inside

Press@RunDepth: 41.11 psig @ 4354.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.04.09 End Date: 2015.04.09

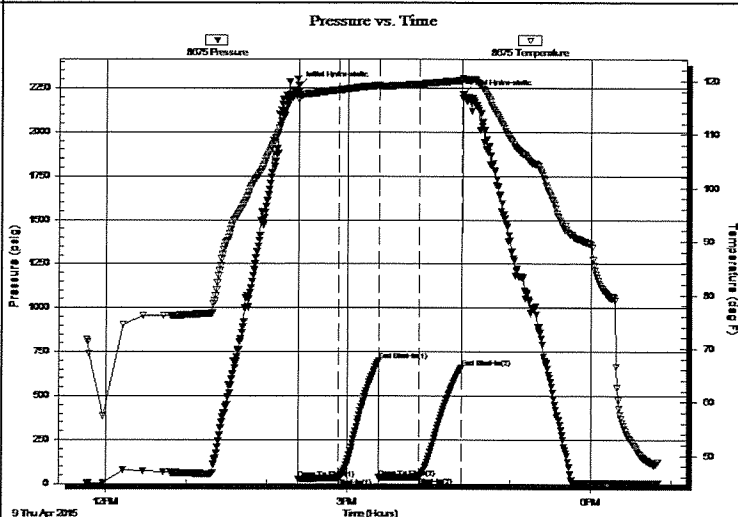
Last Calib.: 2015.04.09

Start Time: 11:45:56 End Time: 18:49:56

Time On Btm: 2015.04.09 @ 14:22:56

Time Off Btm: 2015.04.09 @ 16:25:11

TEST COMMENT: Built to 1 1/4" blow  
No return blow  
No blow  
No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.99	117.99	Initial Hydro-static
1	26.76	116.55	Open To Flow (1)
30	34.31	118.34	Shut-In(1)
60	699.61	119.24	End Shut-In(1)
60	35.99	118.84	Open To Flow (2)
90	41.11	119.46	Shut-In(2)
122	661.11	120.11	End Shut-In(2)
123	2215.93	120.52	Final Hydro-static

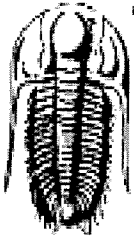
## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/ oil spots	0.15

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
  
ATTN: Ryan Seib

**11-14s-31w Gove,KS**  
  
**TRS-Hanna #1**  
Job Ticket: 58549                                  **DST#:7**  
Test Start: 2015.04.09 @ 11:45:41

## GENERAL INFORMATION:

Formation: **Marmaton - Myric Sta**

Deviated: No    Whipstock:                                  ft (KB)

Time Tool Opened: 14:23:11

Time Test Ended: 18:49:56

**Interval: 4353.00 ft (KB) To 4457.00 ft (KB) (TVD)**

Total Depth: 4767.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches    Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Reference Elevations: 2910.00 ft (KB)

2905.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8650**

**Outside**

Press@RunDepth:                                  psig @    4354.00 ft (KB)

Start Date: 2015.04.09

End Date:

2015.04.09

Capacity: 8000.00 psig

Last Calib.:

2015.04.09

Start Time: 11:46:02

End Time:

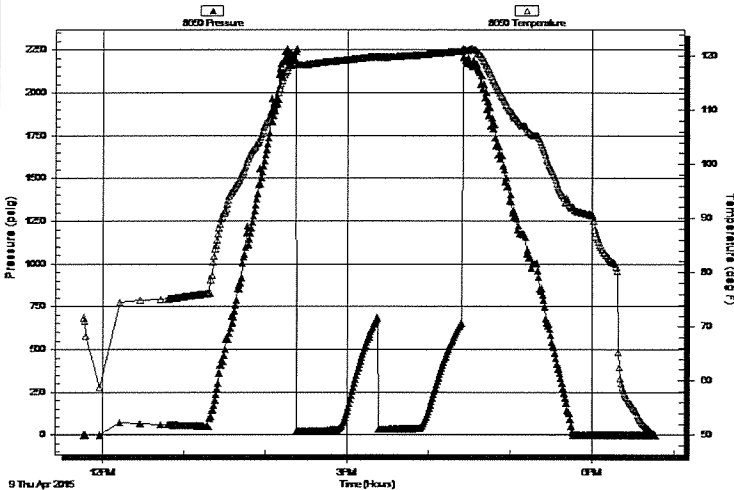
18:46:02

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 1 1/4" blow  
No return blow  
No blow  
No return blow

Pressure vs. Time



## PRESSURE SUMMARY

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

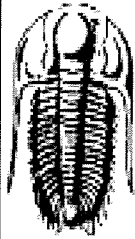
## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/ oil spots	0.15

## Gas Rates

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

\* Recovery from multiple tests



TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
4924 SE 84th  
New ton KS 67114-8827  
  
ATTN: Ryan Seib

11-14s-31w Gove,KS  
  
TRs-Hanna #1  
Job Ticket: 58549      **DST#: 7**  
Test Start: 2015.04.09 @ 11:45:41

## GENERAL INFORMATION:

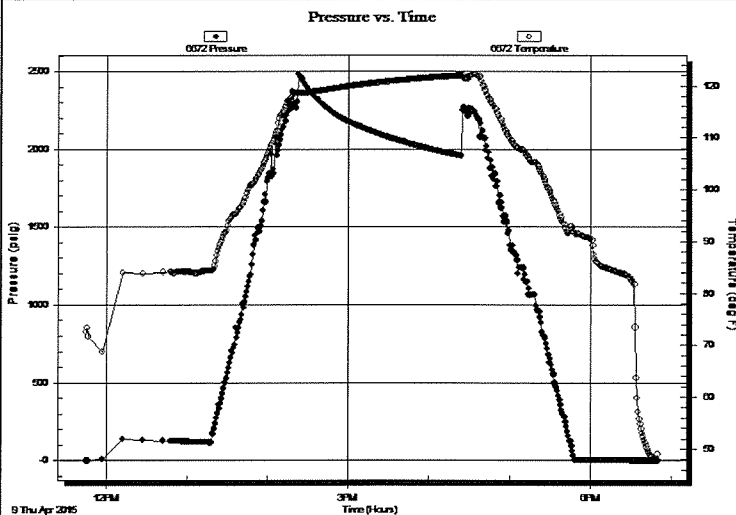
Formation:      **Marmaton - Myric Sta**  
 Deviated:      No      Whipstock:      ft (KB)  
 Time Tool Opened: 14:23:11  
 Time Test Ended: 18:49:56  
 Interval:      **4353.00 ft (KB) To 4457.00 ft (KB) (TVD)**  
 Total Depth:      4767.00 ft (KB) (TVD)  
 Hole Diameter:      7.88 inchesHole Condition: Good  
 Test Type:      Conventional Bottom Hole (Reset)  
 Tester:      Jace McKinney  
 Unit No:      75  
 Reference Elevations:      2910.00 ft (KB)  
    2905.00 ft (CF)  
 KB to GR/CF:      5.00 ft

**Serial #: 6672**

**Below (Straddle)**

Press@RunDepth:      psig @      4766.00 ft (KB)      Capacity:      8000.00 psig  
 Start Date:      2015.04.09      End Date:      2015.04.09      Last Calib.:      2015.04.09  
 Start Time:      11:45:18      End Time:      18:50:18      Time On Btm:  
    Time Off Btm:

TEST COMMENT: Built to 1 1/4" blow  
No return blow  
No blow  
No return blow



## PRESSURE SUMMARY

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

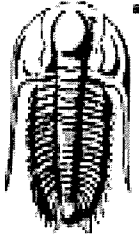
## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud w/ oil spots	0.15

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58549

**DST#: 7**

ATTN: Ryan Seib

Test Start: 2015.04.09 @ 11:45:41

## Tool Information

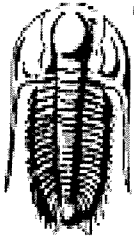
Drill Pipe:	Length: 4215.01 ft	Diameter: 3.80 inches	Volume: 59.13 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.59 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 59.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.10 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4353.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	416.00 ft			
Tool Length:	443.50 ft			
Number of Packers:	4	Diameter: 6.75 inches		
Tool Comments:				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4326.50	
Shut In Tool	5.00			4331.50	
Hydraulic tool	5.00			4336.50	
Jars	5.00			4341.50	
Safety Joint	2.50			4344.00	
Packer	5.00			4349.00	27.50 Bottom Of Top Packer
Packer	4.00			4353.00	
Stubb	1.00			4354.00	
Perforations	0.00			4354.00	
Recorder	0.00	8675	Inside	4354.00	
Recorder	0.00	8650	Outside	4354.00	
Perforations	5.00			4359.00	
Change Over Sub	1.00			4360.00	
Drill Pipe	92.00			4452.00	
Change Over Sub	1.00			4453.00	
Blank off Sub	1.00			4454.00	
Packer - Shale	3.00			4457.00	
Packer - Shale	5.00			4462.00	
Stubb	1.00			4463.00	
Perforations	17.00			4480.00	
Change Over Sub	1.00			4481.00	
Drill Pipe	284.00			4765.00	
Change Over Sub	1.00			4766.00	
Perforations	0.00			4766.00	
Recorder	0.00	6672	Below	4766.00	
Bullnose	3.00			4769.00	416.00 Bottom Packers & Anchor

**Total Tool Length: 443.50**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**11-14s-31w Gove,KS**

4924 SE 84th  
New ton KS 67114-8827

**TRS-Hanna #1**

Job Ticket: 58549

**DST#:7**

ATTN: Ryan Seib

Test Start: 2015.04.09 @ 11:45:41

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 63.00 sec/qt  
Water Loss: 9.58 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4700.00 ppm  
Filter Cake: 2.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud w / oil spots	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

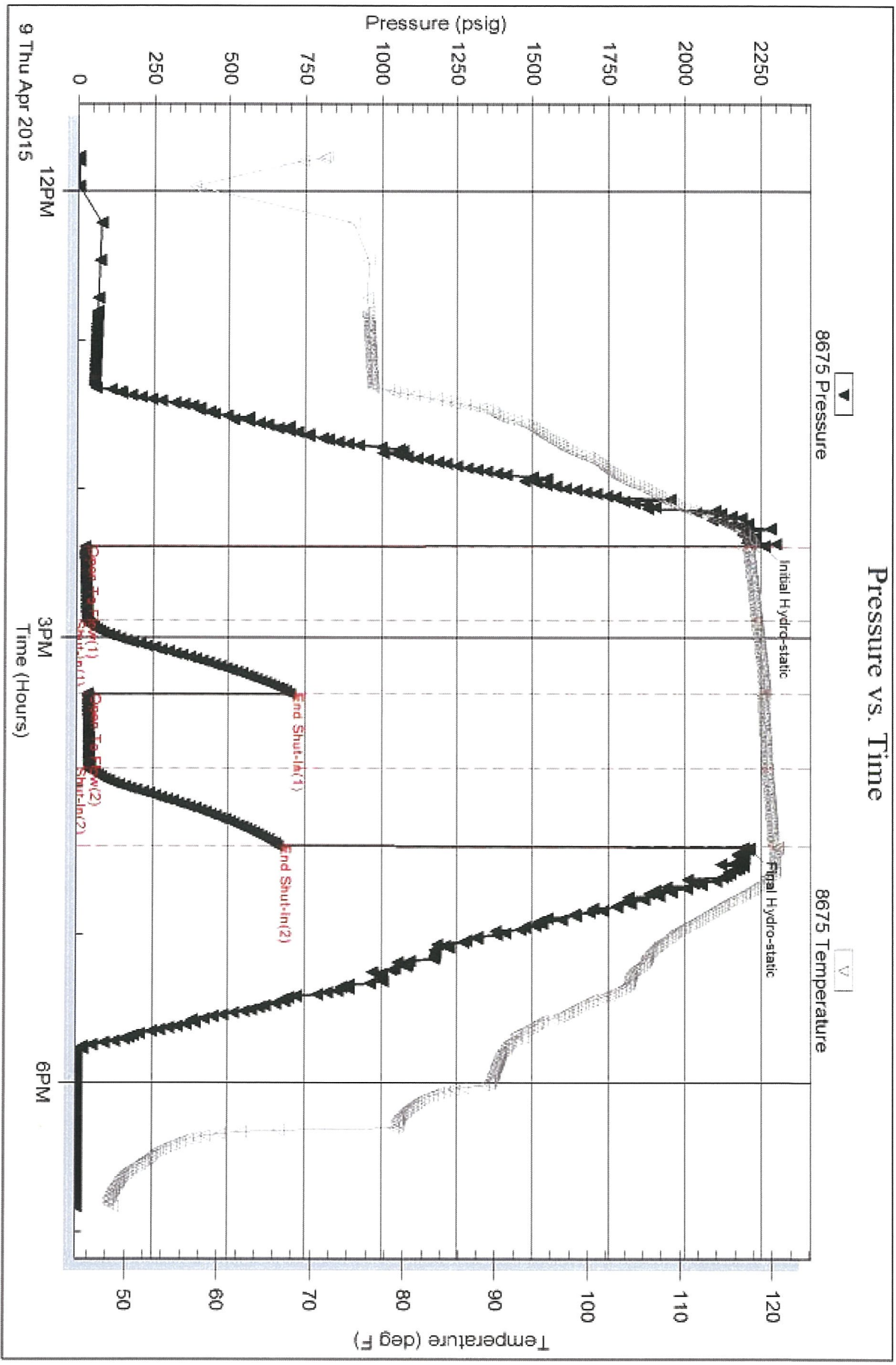
Serial #: 8675

Inside

Palomino Petroleum, Inc.

TRS-Hanna #1

DST Test Number: 7



Tribble Testing, Inc

Ref. No: 58549

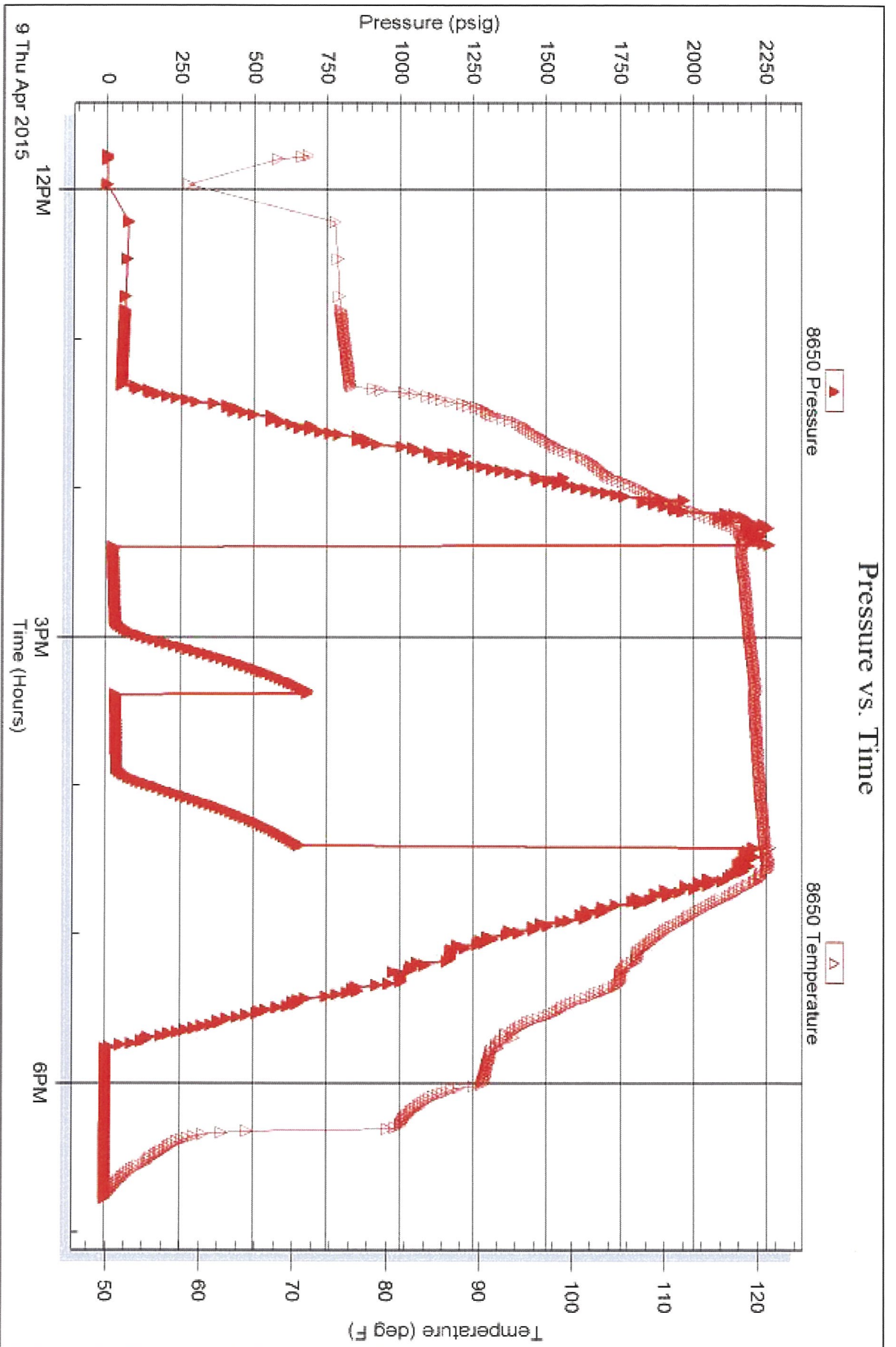
Printed: 2015.04.10 @ 11:55:38

Serial #: 8650

Outside Palomino Petroleum, Inc.

TRC-Hanna #1

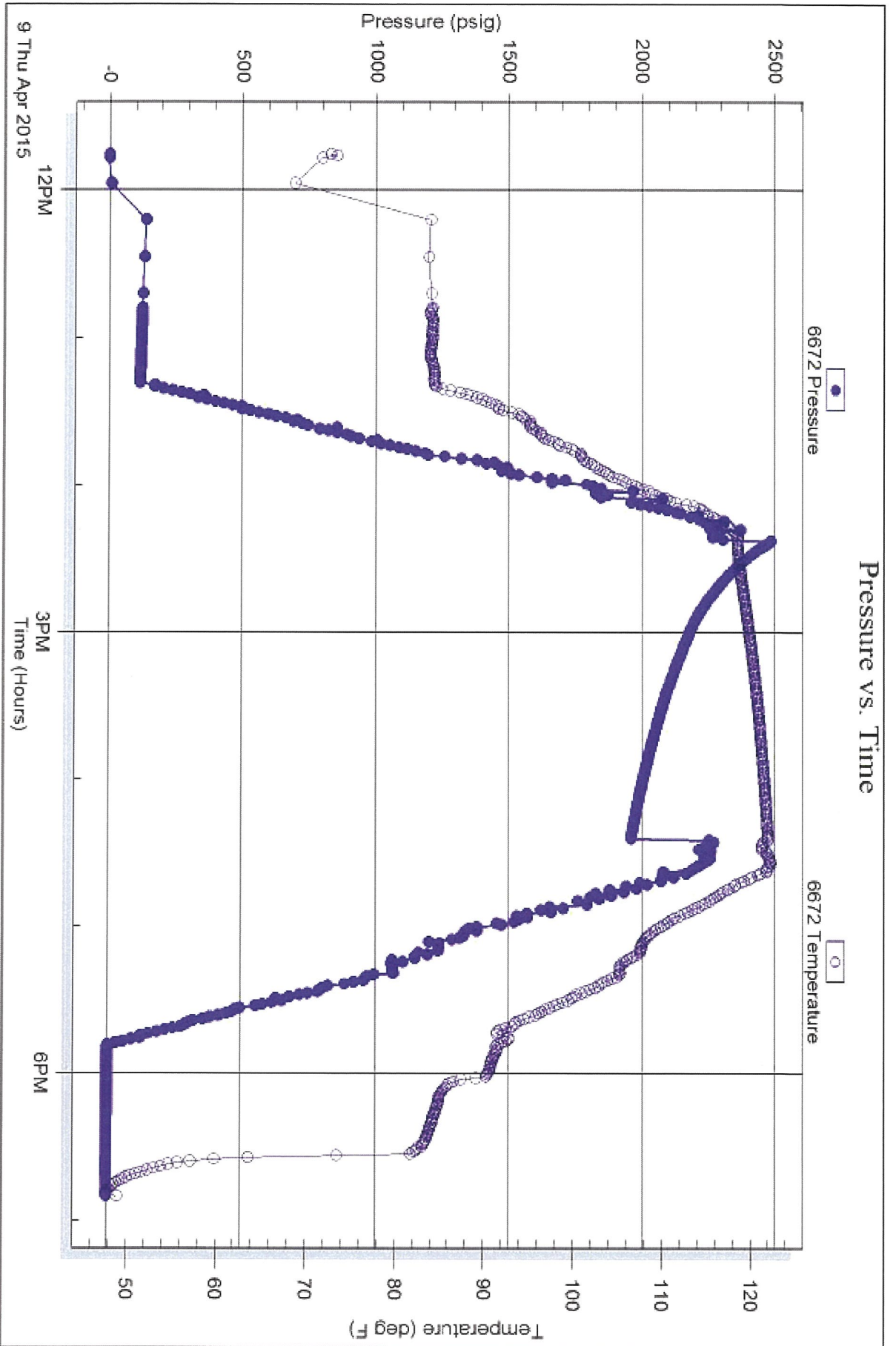
DST Test Number: 7

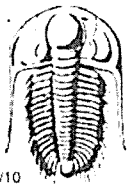


Tricoilite Testing, Inc

Ref. No: 58549

Printed: 2015.04.10 @ 11:55:38





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58543

Well Name & No. TRB #101A #1 Test No. 1 Date 4/3/15 4/4/15  
 Company Palomino Petroleum, Inc Elevation 2910 KB 2905 GL  
 Address 4924 SE 84th Newton KS, 67114-8827  
 Co. Rep / Geo. Ryan Seib Rig WW Rig 6  
 Location: Sec. 1P Twp. 14S Rge. 31W Co. Cove County State KS

Interval Tested 3966-3995 Zone Tested Lansing 'A'  
 Anchor Length 29 Drill Pipe Run 3840.06 Mud Wt. 8.9  
 Top Packer Depth 3962 Drill Collars Run 120.59 Vis 57  
 Bottom Packer Depth 3966 Wt. Pipe Run          WL 6.8  
 Total Depth 3995 Chlorides 1,500 ppm System LCM 1

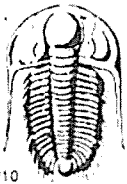
Blow Description B.O.B. in 7 1/2 min  
Bled off for 3 min. No return below  
B.O.B. in 10 1/2 min.  
Bled off for 3 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Clean Oil</u>				
<u>189</u>	<u>MLW</u>		<u>50</u>	<u>50</u>	
<u>556</u>			<u>100</u>		

Rec Total 750 BHT 125 Gravity          API RW 65 @ 30 ° F Chlorides 25,000 ppm  
 (A) Initial Hydrostatic 1,943  Test 1050 T-On Location 22°45  
 (B) First Initial Flow 39  Jars 250 T-Started 00:15  
 (C) First Final Flow 217  Safety Joint 75 T-Open 02:50  
 (D) Initial Shut-In 1,052  Circ Sub W/C T-Pulled 04:50  
 (E) Second Initial Flow 224  Hourly Standby          T-Out 07:09  
 (F) Second Final Flow 346  Mileage 80 AT 71 Comments           
 (G) Final Shut-In 1,022  Sampler           
 (H) Final Hydrostatic 1,927  Straddle           Ruined Shale Packer           
 Shale Packer 250  Ruined Packer           
 Extra Packer           Extra Copies         

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 0  
 Total 1696  
 MP/DST Disc't           
 Sub Total 1696

Approved By          Our Representative *[Signature]*  
 TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58544

Well Name & No. TBS - Hanna # 1 Test No. 2 Date 4/4/15  
 Company Palomino Petroleum Inc Elevation 2910 KB 2905 GL  
 Address 4924 SE 84<sup>th</sup> Newton KS, 67114-8827  
 Co. Rep / Geo. Bryan Seile Rig WW Big 6  
 Location: Sec. 11 Twp. 14S Rge. 3W Co. Boone County State KS

Interval Tested 3992-4070 Zone Tested Lansing D-F  
 Anchor Length 78 Drill Pipe Run 3873.55 Mud Wt. 9.3  
 Top Packer Depth 3988 Drill Collars Run 120.59 Vis 51  
 Bottom Packer Depth 3992 Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth 4070 Chlorides 3,000 ppm System LCM 1

Blow Description B.O.B. in 12 1/2 min  
Bled off for 3 min. Built to 1/2" return below

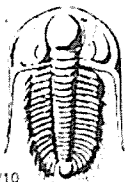
B.O.B. in 15 min  
Bled off for 3 min. Built to 1" return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>126 feet weak Gas In Pipe</u>				
<u>93</u>	<u>610</u>	<u>5</u>	<u>95</u>		
<u>126</u>	<u>MCO</u>	<u>60</u>		<u>40</u>	
<u>63</u>	<u>WCMO</u>	<u>85</u>	<u>5</u>	<u>10</u>	
<u>120</u>	<u>WCMO</u>	<u>55</u>	<u>5</u>	<u>40</u>	

Rec Total 402 BHT 119 Gravity 30 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2,027  Test 1150 T-On Location 14:30  
 (B) First Initial Flow 34  Jars 250 T-Started 15:50  
 (C) First Final Flow 127  Safety Joint 75 T-Open 18:00  
 (D) Initial Shut-In 1,093  Circ Sub W/C T-Pulled 20:00  
 (E) Second Initial Flow 134  Hourly Standby \_\_\_\_\_ T-Out 22:59  
 (F) Second Final Flow 185  Mileage 80 RT 71 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,041  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,983  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 0  
 Total 1796  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1796

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58545

Well Name & No. TBS-Hanna #1 Test No. 3 Date 4/5/15  
 Company Palomino Petroleum Inc Elevation 2910 KB 2905 GL  
 Address 4924 SE 8th Newton KS, 67114-8827  
 Co. Rep / Geo. Ryan Seib Rig WW Rig 6  
 Location: Sec. 11 Twp. 14s Rge. 3W Co. Gove County State KS

Interval Tested 4119-4162 Zone Tested Lansing 'H'  
 Anchor Length 43 Drill Pipe Run 3491.94 Mud Wt. 9.4  
 Top Packer Depth 4115 Drill Collars Run 120.59 Vis 55  
 Bottom Packer Depth 4119 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 4162 Chlorides 4,500 ppm System LCM 1

Blow Description B.O.B. in 9 min.  
Bled off for 5 min. Surface return below  
B.O.B. in 8 min.

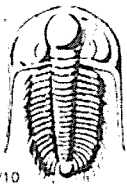
Bled off for 5 min. Built to 3/4" return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>834 feet loss in pipe</u>				
<u>174</u>	<u>MCGO</u>	<u>30</u>	<u>70</u>	<u>10</u>	
<u>126</u>	<u>OLG</u>	<u>60</u>	<u>40</u>		
<u>120</u>	<u>MCGO</u>	<u>30</u>	<u>50</u>	<u>20</u>	

Rec Total 417 BHT 120 Gravity 36 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2,073</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>09:00</u>
(B) First Initial Flow <u>33</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>09:45</u>
(C) First Final Flow <u>117</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:41</u>
(D) Initial Shut-In <u>1,159</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>13:41</u>
(E) Second Initial Flow <u>132</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:52</u>
(F) Second Final Flow <u>174</u>	<input checked="" type="checkbox"/> Mileage <u>80 RT</u> <u>71</u>	Comments _____
(G) Final Shut-In <u>1,151</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1,956</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1546</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1546</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58546

Well Name & No. TR5-Hanna #1 Test No. 4 Date 4/5/15 4/6/15  
 Company Palomino Petroleum Inc Elevation 2910 KB 2905 GL  
 Address 4924 SE 89th Newton KS, 67114-8827  
 Co. Rep / Geo. Ryan Beils Rig WW Rig Co  
 Location: Sec. 11 Twp. 14s Rge. 31w Co. Gove County State KS

Interval Tested 4154-4216 Zone Tested Lansing I-5'  
 Anchor Length 62 Drill Pipe Run 4022.08 Mud Wt. 9.4  
 Top Packer Depth 4150 Drill Collars Run 120.54 Vis 5.5  
 Bottom Packer Depth 4154 Wt. Pipe Run \_\_\_\_\_ WL 7.2  
 Total Depth 4216 Chlorides 4,500 ppm System LCM 1

Blow Description B.O.B. in 8 min.  
Bled off for 5 min. Built to 1" return below  
B.O.B. in 7 1/2 min.

Bled off for 5 min. Built to 6" return below

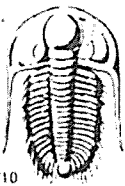
Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>mcc</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
<u>126</u>	<u>600</u>	<u>30</u>	<u>70</u>	<u>70</u>	<u>70</u>
<u>63</u>	<u>6000</u>	<u>20</u>	<u>50</u>	<u>30</u>	<u>30</u>
<u>126</u>	<u>12000</u>	<u>10</u>	<u>10</u>	<u>5</u>	<u>75</u>
<u>120</u>	<u>mcw with oil scum</u>	<u>90</u>	<u>90</u>	<u>10</u>	<u>10</u>

Rec Total 561 BHT 123 Gravity 38 API RW 30 @ 50 °F Chlorides 40,000 ppm  
 (A) Initial Hydrostatic 2114  Test 1150 T-On Location 23:00  
 (B) First Initial Flow 34  Jars 250 T-Started 00:15  
 (C) First Final Flow 168  Safety Joint 75 T-Open 02:43  
 (D) Initial Shut-In 1,121  Circ Sub N/C T-Pulled 04:43  
 (E) Second Initial Flow 172  Hourly Standby \_\_\_\_\_ T-Out 07:35  
 (F) Second Final Flow 255  Mileage 80 RT 71 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,106  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,072  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 0  
 Total 1546  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1546

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58547

Well Name & No. TBS - Hanna, # 1 Test No. 5 Date 4/10/15  
 Company Palomino Petroleum, Inc Elevation 2910 KB 2905 GL  
 Address 4924 SE 81<sup>th</sup> Newton KS, 67114-8827  
 Co. Rep / Geo. Ryan Seile Rig WW Rig 6  
 Location: Sec. 11 Twp. 14s Rge. 31w Co. Boone County State KS

Interval Tested 4208-4236 Zone Tested Lansing 15'  
 Anchor Length 28 Drill Pipe Run 4087.05 Mud Wt. 9.3  
 Top Packer Depth 4204 Drill Collars Run 120.59 Vis 56  
 Bottom Packer Depth 4208 Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth 4236 Chlorides 4,400 ppm System LCM 1

Blow Description B.O.B. in 7 1/4" min.  
Bled off for 5 min. Built to 2 1/2" return below

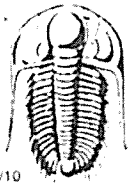
B.O.B. in 6 min.  
Bled off for 5 min. Built to 4" return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>1030 Feet Loss In Pipe</u>				
<u>224</u>	<u>geo</u>	<u>10</u>	<u>90</u>		
<u>126</u>	<u>w/cm/ga</u>	<u>40</u>	<u>40</u>	<u>2</u>	<u>18</u>
<u>60</u>	<u>gemw</u>	<u>10</u>		<u>50</u>	<u>40</u>

Rec Total 410 BHT 125 Gravity 39 API RW 15 @ 80 ° F Chlorides 41,000 ppm  
 Test 1150 T-On Location 12:00  
 Jars 250 T-Started 13:17  
 Safety Joint 75 T-Open 15:24  
 Circ Sub w/c T-Pulled 17:24  
 Hourly Standby \_\_\_\_\_ T-Out 19:41  
 Mileage 80 RT 71 Comments \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 0  
 Total 1546  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1546

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 58548

Well Name & No. TBB - Hanna # 1 Test No. 6 Date 4/8/15  
 Company Palomino Petroleum, Inc Elevation 2910 KB 2905 GL  
 Address 4924 SE 84<sup>th</sup> Newton KS, 67114-8827  
 Co. Rep / Geo. Ryan Geis Rig WW Rig 6  
 Location: Sec. 11 Twp. 14S Rge. 31W Co. Cove County State KS

Interval Tested 4457-4565 Zone Tested Fort Scott - Johnson  
 Anchor Length 108 Drill Pipe Run 4335.40 Mud Wt. 9.3  
 Top Packer Depth 4453 Drill Collars Run 120.59 Vis 6.3  
 Bottom Packer Depth 4457 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 4565 Chlorides 4,000 ppm System LCM 2#

Blow Description B.O.B. in 45 sec.  
Bled off for 8 min. B.O.B. in 12 1/2 min.  
B.O.B. when opened, gas to surface in 10 min.

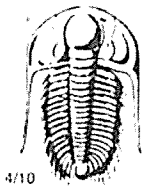
Bled off for 8 min. B.O.B. in 12 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2676</u>	<u>clean out</u>	<u>5</u>	<u>95</u>		
<u>10 min</u>	<u>gco</u>	<u>10</u>	<u>90</u>		
<u>20 + 30</u>	<u>gco</u>	<u>20</u>	<u>80</u>		
<u>183</u>	<u>gcom</u>	<u>10</u>	<u>40</u>		<u>50</u>

Rec Total 2859 BHT 130 Gravity 39 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2,309  Test 1150 T-On Location 00:00  
 (B) First Initial Flow 495  Jars 250 T-Started 00:38  
 (C) First Final Flow 742  Safety Joint 75 T-Open 02:59  
 (D) Initial Shut-In 1,075  Circ Sub Used 50 T-Pulled 04:29  
 (E) Second Initial Flow 785  Hourly Standby 4 hours T-Out 08:51  
 (F) Second Final Flow 944  Mileage 80 71 Comments 1675 Feet Gas In Pipe  
 (G) Final Shut-In 1,044  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,246  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1596  
 Final Flow 15  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1596

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

58549

NO.

Well Name & No. JBS-Hanna # 1 Test No. 7 Date 4/9/15  
 Company Palomino Petroleum, Inc Elevation 2910 KB 2905 GL  
 Address 4924 SE 84<sup>th</sup> Newton KS, 67114-8827  
 Co. Rep / Geo. Ryan Seide Rig WW Ruy Co  
 Location: Sec. 11 Twp. 14s Rge. 3lw Co. Boone County State KS

Interval Tested 4353-4457 Zone Tested Marmaton - Myric Station  
 Anchor Length 312 104' Drill Pipe Run 4215.01 Mud Wt. 9.5  
 Top Packer Depth 4349 Drill Collars Run 120.59 Vis 6.3  
 Bottom Packer Depth 4353 Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth 4457 Chlorides 4,700 ppm System LCM 2#  
 Blow Description Built to 1/4" below  
No return below  
No below  
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud with oil spots</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	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 130 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2,262  Test 1150 T-On Location 11:20  
 (B) First Initial Flow 27  Jars 250 T-Started 11:45  
 (C) First Final Flow 34  Safety Joint 75 T-Open 14:23  
 (D) Initial Shut-In 700  Circ Sub N/V T-Pulled 16:23  
 (E) Second Initial Flow 36  Hourly Standby \_\_\_\_\_ T-Out 18:49  
 (F) Second Final Flow 45  Mileage 80 71 Comments \_\_\_\_\_  
 (G) Final Shut-In 666  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,216  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer x 2 500  Ruined Packer \_\_\_\_\_  
 Extra Packer 200  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 2846  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 2846

Approved By \_\_\_\_\_ Our Representative [Signature]  
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## Carla Penwell

---

**From:** K. Robert Watchous  
**Sent:** Friday, April 10, 2015 1:43 PM  
**To:** Carla Penwell  
**Cc:** Nick Gerstner  
**Subject:** FW: Harris Beasley and Plum Creek North Prospects  
**Attachments:** Allocation of Expenses, Plum Creek N. and Harris Beasley 3D.xlsx

Enter now (PPI) but don't pay until May 4<sup>th</sup>. Thanks.

**From:** Nick Gerstner  
**Sent:** Friday, April 10, 2015 8:27 AM  
**To:** K. Robert Watchous  
**Subject:** FW: Harris Beasley and Plum Creek North Prospects

We owe these guys for the Harris-Beasley survey.

**From:** Shawn Streker [<mailto:ssreker@empireenergyusa.com>]  
**Sent:** Thursday, April 09, 2015 5:14 PM  
**To:** Nick Gerstner  
**Subject:** Harris Beasley and Plum Creek North Prospects

Nick,

I have attached allocations of expenses for the Harris Beasley and Plum Creek North Prospects. I can e-mail you an invoice in the morning.

We plan to mail the data to you tomorrow as well.

Thank you,

Shawn Streker, CPL  
Landman, Mid-Continent Region  
345 Riverview Street, Suite 540  
Wichita, Kansas 67203  
Office: (316) 313-4347  
Cell: (316) 253-9316

