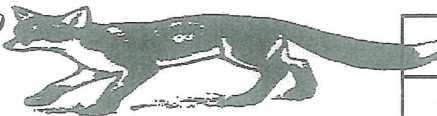




P. O. Box 466  
 Ness City, KS 67560  
 Off: 785-798-2300



# Invoice

DATE	INVOICE #
3/27/2014	26185

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

RECEIVED  
 APR 03 2014

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Mabel Hoss	Ness	Express Well Serv...	Oil	Development	Cement Port Collar	David
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				20	Miles	6.00	120.00
576D-D	Pump Charge - Port Collar				1	Job	1,500.00	1,500.00
330	Swift Multi-Density Standard (MIDCON II)				145	Sacks	18.50	2,682.50T
276	Flocele				40	Lb(s)	2.50	100.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
105	Port Collar Tool Rental With Man				1	Each	350.00	350.00T
581D	Service Charge Cement				200	Sacks	2.00	400.00
583D	Drayage				298.53	Ton Miles	1.00	298.53
	Subtotal							5,535.03
	Sales Tax Ness County						6.15%	197.81

**We Appreciate Your Business!**

**Total**

\$5,732.84



CHARGE TO: **PALMIND PETROLEUM**  
 ADDRESS  
 CITY, STATE, ZIP CODE

TICKET 26185  
 PAGE 1 OF 1

SERVICE LOCATIONS:  
 1. **Ness City, KS** WELL/PROJECT NO.:  
 2. TICKET TYPE:  SERVICE  SALES CONTRACTOR: **EXPRESS WELL SERU.** RIG NAME/NO.: **Ness** STATE: **KS** CITY: **Laird KS.** DATE: **27 MAR 14** OWNER:  
 3. WELL TYPE: **OIL** WELL CATEGORY: **DEVELOPMENT** JOB PURPOSE: **CEMENT PORT COLLAR** SHIPPED VIA: **DELIVERED TO** ORDER NO.:  
 4. REFERRAL LOCATION: **DEVELOPMENT** WELL PERMIT NO.: **851342 N-502** WELL LOCATION:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #115	20	mi			6.00	120.00
576		1			RAMP CHARGE	1				1500.00	1500.00
330		1			SMD Cement	18			145	18.50	2682.00
276		1			Floccle	40			145	2.50	100.00
290		1			D-Air	2			42	4.00	84.00
105		1			Port Collar Tool Rental	1			350	350.00	350.00
581		1			Service Charge Cement					2.00	400.00
583		1			Drillage Charge	19902	lbs			1.00	298.53

**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.  
 DATE SIGNED: **3-27-14** TIME SIGNED: **1600**  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300  
 REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300  
 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  
 TAX: **7.55**  
**16.15%**  
 TOTAL: **5732.84**

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.  
 SWIFT OPERATOR: **David Krebs** APPROVAL: \_\_\_\_\_  
 Thank You!

JOB LOG

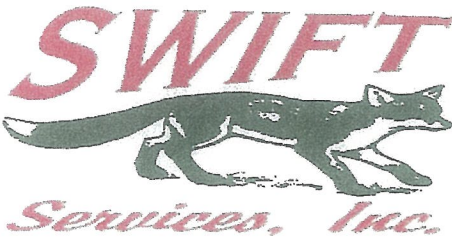
SWIFT Services, Inc.

DATE 27

PAGE NO.

CUSTOMER VALDOMINO PETROLEUM WELL NO. LEASE MABEL-HOSS #1 JOB TYPE CEMENT PORT COLLAR TICKET NO. 26185

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1350							ON LOCATION 2 7/8 x 5 1/2
								PORT COLLAR @ 1662
								200 sks SMPD w/ 1/4 Flo
	1450	0	0			1000		Pressure Test Hold
	1455							open Port Collar
	1500	4	80			400		mix 145 sks @ 11.2 ppg - 20 sks topit.
	1520	4	9			550		Displace Cement
	1522	0	0			1000		Close Port Collar Pressure Test - Hold-
								Run 4 jts
	1530	3	25			300		Reverse cement clean
								wash up Truck
								Job Complete
								Thank You Dave Jason Juan Rob



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



RECEIVED

MAR 22 2014

# Invoice

DATE	INVOICE #
3/20/2014	26178

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	Mabel Hoss	Ness	WW Drilling Rig ...	Oil	Development	5-1/2" LongString	David
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				20	Miles	6.00	120.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
403-5	5 1/2" Cement Basket				3	Each	300.00	900.00T
404-5	5 1/2" Port Collar - 1699 Feet				1	Each	2,900.00	2,900.00T
405-5	5 1/2" Formation Packer Shoe				1	Each	1,650.00	1,650.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	275.00	275.00T
409-5	5 1/2" Turbolizer				10	Each	90.00	900.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
276	Flocele				70	Lb(s)	2.50	175.00T
283	Salt				650	Lb(s)	0.20	130.00T
284	Calseal				6	Sack(s)	35.00	210.00T
285	CFR-1				60	Lb(s)	4.50	270.00T
290	D-Air				3	Gallon(s)	42.00	126.00T
325	Standard Cement				125	Sacks	14.50	1,812.50T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	18.50	2,312.50T
581D	Service Charge Cement				250	Sacks	2.00	500.00
583D	Drayage				255.3	Ton Miles	1.00	255.30
	Subtotal							14,761.30
	Sales Tax Ness County						6.15%	761.74

**We Appreciate Your Business!**

**Total**

\$15,523.04



Services, Inc.

CHARGE TO: PALOMINO RETRIEVER

ADDRESS

CITY, STATE, ZIP CODE

TICKET 26178

PAGE 1 OF 2

SERVICE LOCATION 1. NESS CITY, KS	WELL/PROJECT NO. MABEL-HOSS #1	LEASE	COUNTY/PARISH NESS	STATE KS	CITY HAIRD, KS.	DATE 20 MAR 14	OWNER
2.	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR WWD DRILLING RIG #10	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE OIL	WELL CATEGORY DEVELOPMENT	JOB PURPOSE 5 1/2" LONG STRING	WELL PERMIT NO.	WELL LOCATION 85, 1 1/2" N ISTD		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT		AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.	UM	
575					MILEAGE # 115-	20	mi	1500	1500	1500.00
578					PUMP CHARGE	3	EA	300	900	900.00
403					CEMENT BASKETS	1	EA	1699	1699	2900.00
404					PORT COLLAR	1	EA	1650	1650	1650.00
405					FORMATION BASKET SHOE	1	EA	275	275	275.00
406					LATCH DOWN PLUG & BAGGLE	10	EA	90	900	900.00
409					TURBIDIZERS					
281					MUD FLUSH	500	gal	1.25	625	625.00
221					LIQUID KCL	4	gal	25	100	100.00

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

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

REMIT PAYMENT TO:

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

DATE SIGNED 3-20-14 TIME SIGNED 1400 P.M.

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL #1 8970.00
WE UNDERSTOOD AND MET YOUR NEEDS?	YES	NO		
OUR SERVICE WAS PERFORMED WITHOUT DELAY?	YES	NO		SUBTOTAL 14761.30
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	YES	NO		
ARE YOU SATISFIED WITH OUR SERVICE?	YES	NO		TOTAL 15,523.01

SWIFT OPERATOR David Kuehn  
CUSTOMER ACCEPTANCE OF MATERIALS & ND SERVICES  
AGENT OF SWIFT SERVICES  
Thank You.



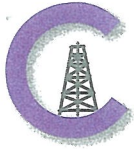
JOB LOG

SWIFT Services, Inc.

DATE 20 Mar 14 PAGE NO.

CUSTOMER TALOMINO PETROLEUM WELL NO. LEASE MABEL-HOSS # 1 JOB TYPE 5 1/2 LONGSTRING TICKET NO. 26178

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							ON LOCATION
	0930							START PIPE 5 1/2-15.5 # RTD @ 5196 SHOET, 41, 80 CENTRALIZERS 1, 2, 3, 4, 6, 8, 10, 12, 14, 20 BASKETS 2, 3, 81 PORT COLLAR # 81 @ 1699
	1130				✓		1000	SET BASKET SHOE - CIRCULATE.
	1235	6	12		✓		300	Pump 500 gal MUD FLUSH
		6	20		✓		300	Pump 20 Bbl KCL FLUSH
			7					PLUG RH - 30 sx
	1253	4	36		✓		200	MIX 95 sx SMD
		4	30		✓		100	MIX 125 sx EA-2
								WASH OUT Pump & LINE.
	1320	6	Ø		✓			START DISPLACING PLUG.
	1340	Ø	120		✓		1500	PLUG DOWN KATCHA PLUG IN.
								RELEASE PSI - DRY
								WASH TRUCK
	1415							JOB COMPLETE
								THANKS # 115
								JASON DAUE JUAN Issac



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
FINV  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

RECEIVED

MAR 19 2014 MAIN OFFICE  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 266486

Invoice Date: 03/17/2014 Terms: 10/10/30,n/30

Page 1

PALOMINO PETROLEUM, INC.  
4924 SE 84TH STREET  
NEWTON KS 67114-8827  
( ) -

MABEL HOSS #1  
47556  
4-28S-25W  
03-12-2014  
KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	165.00	18.5500	3060.75
1102	CALCIUM CHLORIDE (50#)	465.00	.9400	437.10
1118B	PREMIUM GEL / BENTONITE	310.00	.2700	83.70
Sublet Performed				
9996-130	CEMENT MATERIAL DISCOUNT			-358.16
9995-130	CEMENT EQUIPMENT DISCOUNT			-168.50
Description				
399	SINGLE PUMP	1.00	1150.00	1150.00
399	EQUIPMENT MILEAGE (ONE WAY)	20.00	5.25	105.00
460	MIN. BULK DELIVERY	1.00	430.00	430.00

Amount Due 5486.82 if paid after 04/16/2014

Parts:	3581.55	Freight:	.00	Tax:	198.24	AR	4938.13
Labor:	.00	Misc:	.00	Total:	4938.13		
Sublt:	-526.66	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_ Date \_\_\_\_\_

ARTLESVILLE, OK 018/238-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650





**CONSOLIDATED**  
Oil Well Services, LLC

266486

TICKET NUMBER 47556  
LOCATION Oakley, KS  
FOREMAN Dane Retzlaff

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-12-14	6285	Mabel Hess #1	4	28S	25 W	Ness

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Palomino Petroleum	399	Travis		
	960	Jake		
	Helper	Dale		

CITY	STATE	ZIP CODE

JOB TYPE Surface HOLE SIZE 11/4 HOLE DEPTH 225 CASING SIZE & WEIGHT 8 5/8 24105  
 CASING DEPTH 222 DRILL PIPE 4.5 TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk 4.5 CEMENT LEFT in CASING 20'  
 DISPLACEMENT 14.8 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on W2 Rig 10. Rig up pump truck. Break circulation with rig pump  
mix 165 sks of Class A 3% cc 2% gel. wash up pump & lines. Displace 13 BBLs of water  
and shut in. Cement did circulate

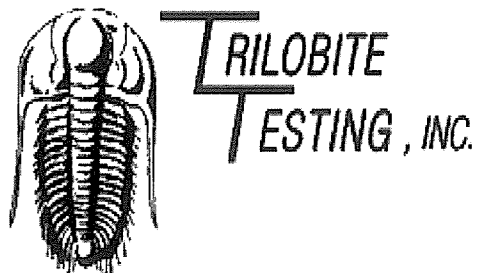
*Thanks Dane & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1150.00	1150.00 ✓
5406	20	MILEAGE	5.25	105.00 ✓
5407	7.7	Ton mileage Delivery (min)	1.75	135.75 ✓
1104 S	145 sks	Class A cement	18.55	2689.75 ✓
1102	465	Calcium Chloride	.94	437.10 ✓
1118 B	310	Bentonite	.27	83.70 ✓
			Sub	5266.55
			less 10%	5266.60 ✓
			Sub	4739.89
			6.15	SALES TAX
				ESTIMATED TOTAL
				198.24 ✓
				4938.13 ✓

**completed**

AUTHORIZATION TITLE T.D. DATE 3-12-14

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this fo



## DRILL STEM TEST REPORT

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

4924 SE 84th St.  
Newton, KS 67114

ATTN: Andrew Stenzel

**Mabel Hoss #1**

**4-20s-25w Ness,KS**

Start Date: 2014.03.17 @ 06:02:15

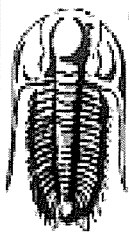
End Date: 2014.03.17 @ 11:48:30

Job Ticket #: 56413                      DST #: 1

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

Printed: 2014.03.20 @ 19:03:05

Palomino Petroleum, Inc. 4-20s-25w Ness,KS Mabel Hoss #1 DST # 1 Miss. 2014.03.17



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

**4-20s-25w Ness,KS**

4924 SE 84th St.  
New ton, KS 67114

**Mabel Hoss #1**

Job Ticket: 56413

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2014.03.17 @ 06:02:15

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:09:45

Time Test Ended: 11:48:30

Test Type: Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Interval: **4404.00 ft (KB) To 4502.00 ft (KB) (TVD)**

Reference Elevations: 2451.00 ft (KB)

Total Depth: 4502.00 ft (KB) (TVD)

2446.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

## Serial #: 8846

Inside

Press@RunDepth: 90.37 psig @ 4406.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.17

End Date: 2014.03.17

Last Calib.: 2014.03.17

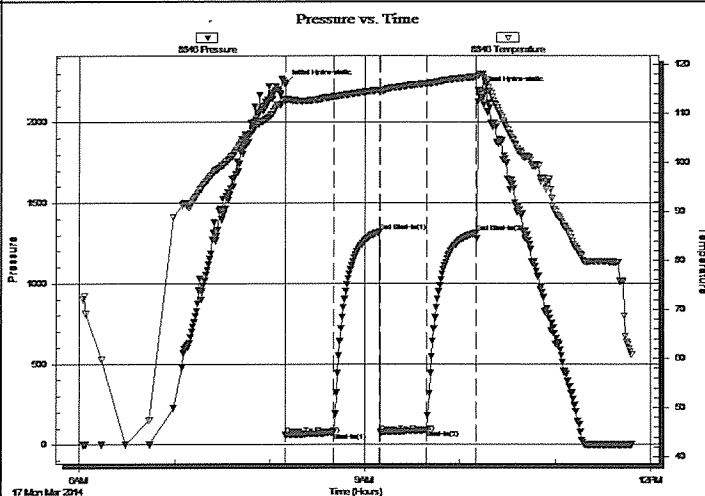
Start Time: 06:02:15

End Time: 11:48:30

Time On Btm: 2014.03.17 @ 08:09:30

Time Off Btm: 2014.03.17 @ 10:11:30

TEST COMMENT: IF:Built to 2" blow  
IS:No return blow  
FF:Built to 1" blow  
FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.57	112.83	Initial Hydro-static
1	59.85	112.33	Open To Flow (1)
31	73.70	113.41	Shut-In(1)
60	1320.49	114.72	End Shut-In(1)
61	76.99	114.44	Open To Flow (2)
90	90.37	116.08	Shut-In(2)
121	1313.42	117.48	End Shut-In(2)
122	2198.22	117.72	Final Hydro-static

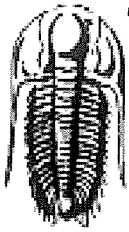
## Recovery

Length (ft)	Description	Volume (bbl)
62.00	mud 100%m	0.30

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**4-20s-25w Ness,KS**

4924 SE 84th St.  
New ton, KS 67114

**Mabel Hoss #1**

Job Ticket: 56413

**DST#: 1**

ATTN: Andrew Stenzel

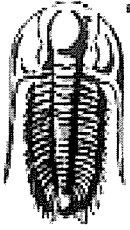
Test Start: 2014.03.17 @ 06:02:15

## Tool Information

Drill Pipe:	Length: 4262.00 ft	Diameter: 3.80 inches	Volume: 59.78 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4404.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	126.00 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			4377.00	
Shut In Tool	5.00			4382.00	
Hydraulic tool	5.00			4387.00	
Jars	5.00			4392.00	
Safety Joint	3.00			4395.00	
Packer	5.00			4400.00	28.00 Bottom Of Top Packer
Packer	4.00			4404.00	
Stubb	1.00			4405.00	
Perforations	1.00			4406.00	
Recorder	0.00	8846	Inside	4406.00	
Recorder	0.00	8737	Outside	4406.00	
Change Over Sub	1.00			4407.00	
Blank Spacing	64.00			4471.00	
Change Over Sub	1.00			4472.00	
Perforations	25.00			4497.00	
Bullnose	5.00			4502.00	98.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>126.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**4-20s-25w Ness,KS**

4924 SE 84th St.  
New ton, KS 67114

**Mabel Hoss #1**

Job Ticket: 56413

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2014.03.17 @ 06:02:15

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mud 100%m	0.305

Total Length: 62.00 ft

Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

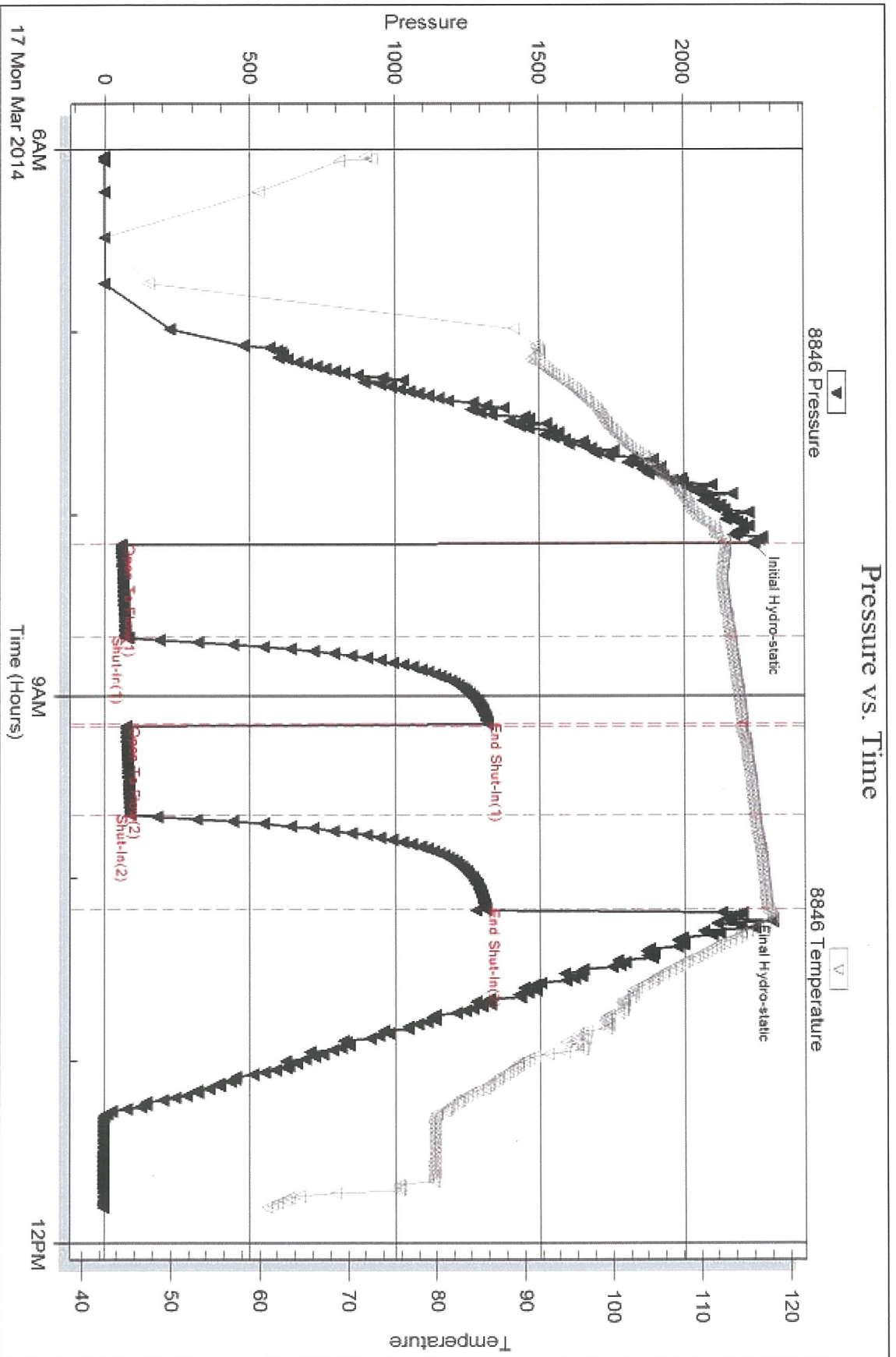
Serial #: 8846

Inside

Palomino Petroleum, Inc.

Mabel Hoss #1

DST Test Number: 1



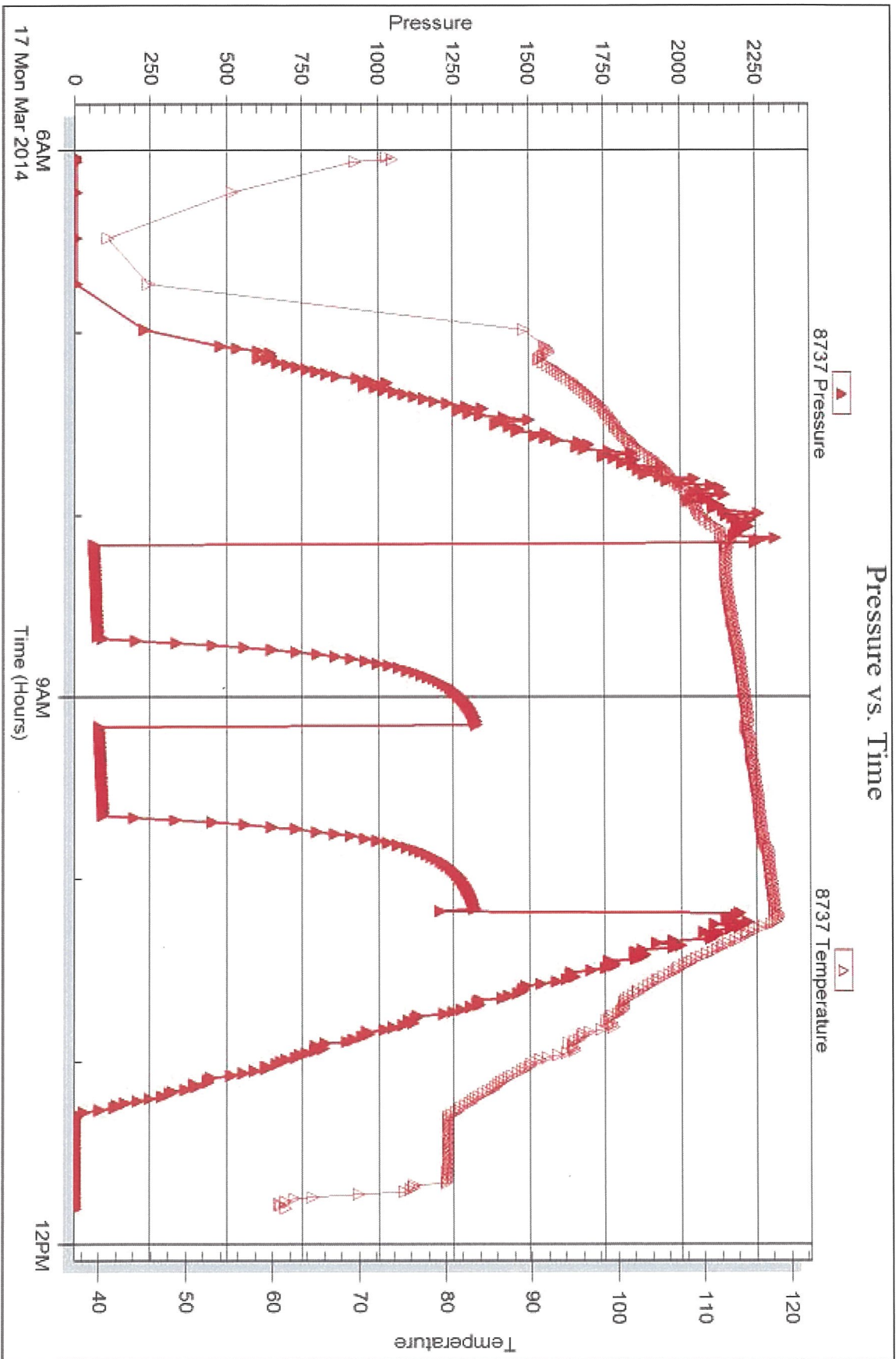
Serial #: 8737

Outside

Palomino Petroleum, Inc.

Mabel Hoss #1

DST Test Number: 1

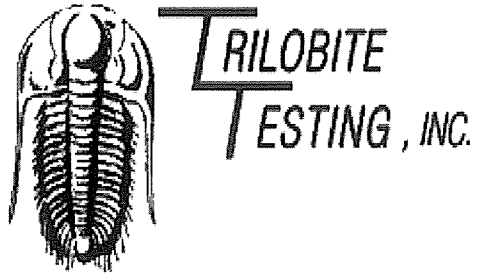


Triobite Testing, Inc

Ref. No: 56413

Printed: 2014.03.20 @ 19:03:07





## DRILL STEM TEST REPORT

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

4924 SE 84th St.  
Newton, KS 67114

ATTN: Andrew Stenzel

### **Mabel Hoss #1**

### **4-20s-25w Ness,KS**

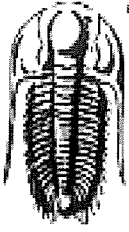
Start Date: 2014.03.17 @ 17:21:15

End Date: 2014.03.17 @ 23:44:45

Job Ticket #: 56414                      DST #: 2

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

Printed: 2014.03.20 @ 19:01:53



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

4-20s-25w Ness, KS

4924 SE 84th St.  
Newton, KS 67114

**Mabel Hoss #1**

Job Ticket: 56414

**DST#: 2**

ATTN: Andrew Stenzel

Test Start: 2014.03.17 @ 17:21:15

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:25:15

Time Test Ended: 23:44:45

Test Type: Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: **4404.00 ft (KB) To 4515.00 ft (KB) (TVD)**

Reference Elevations: 2451.00 ft (KB)

Total Depth: 4511.00 ft (KB) (TVD)

2446.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8846**

Inside

Press@RunDepth: 395.97 psig @ 4406.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.03.17

End Date:

2014.03.17

Last Calib.: 2014.03.17

Start Time: 17:21:15

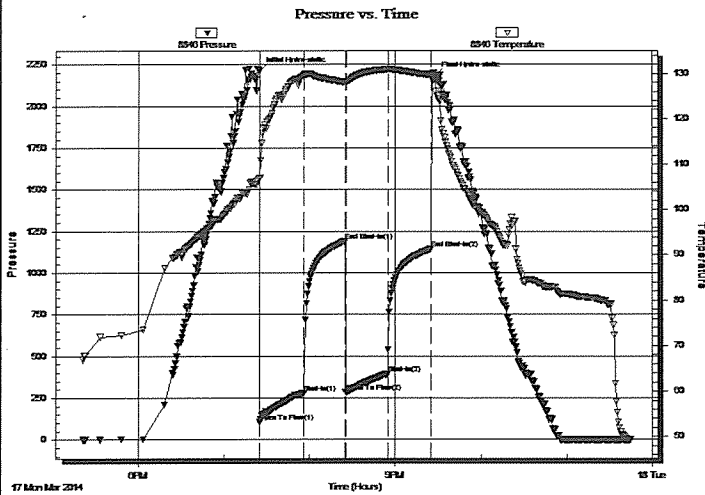
End Time:

23:44:45

Time On Btm: 2014.03.17 @ 19:25:00

Time Off Btm: 2014.03.17 @ 21:27:15

TEST COMMENT: IF:BOB in 7 min.  
IS:No return blow  
FF:BOB in 7 min.  
FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.73	106.91	Initial Hydro-static
1	106.99	107.10	Open To Flow (1)
32	280.46	129.61	Shut-In(1)
60	1189.33	128.04	End Shut-In(1)
61	283.55	127.97	Open To Flow (2)
90	395.97	130.94	Shut-In(2)
120	1143.84	129.64	End Shut-In(2)
123	2183.46	128.47	Final Hydro-static

## Recovery

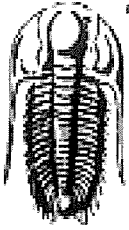
Length (ft)	Description	Volume (bbl)
62.00	mcw 50%mn 50%w	0.30
62.00	w cm 30%w 70%m	0.31
186.00	w cm 2%w 98%m	2.61
340.00	mud 100% m	4.77

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**4-20s-25w Ness,KS**

4924 SE 84th St.  
New ton, KS 67114

**Mabel Hoss #1**

Job Ticket: 56414

**DST#: 2**

ATTN: Andrew Stenzel

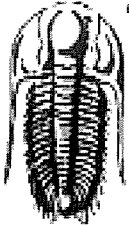
Test Start: 2014.03.17 @ 17:21:15

### Tool Information

Drill Pipe:	Length: 4262.00 ft	Diameter: 3.80 inches	Volume: 59.78 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.38 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4404.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	111.00 ft			
Tool Length:	139.00 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			4377.00	
Shut In Tool	5.00			4382.00	
Hydraulic tool	5.00			4387.00	
Jars	5.00			4392.00	
Safety Joint	3.00			4395.00	
Packer	5.00			4400.00	28.00 Bottom Of Top Packer
Packer	4.00			4404.00	
Stubb	1.00			4405.00	
Perforations	1.00			4406.00	
Recorder	0.00	8846	Inside	4406.00	
Recorder	0.00	8737	Outside	4406.00	
Change Over Sub	1.00			4407.00	
Blank Spacing	95.00			4502.00	
Change Over Sub	1.00			4503.00	
Perforations	7.00			4510.00	
Bullnose	5.00			4515.00	111.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>139.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**4-20s-25w Ness, KS**

4924 SE 84th St.  
New ton, KS 67114

**Mabel Hoss #1**

Job Ticket: 56414

**DST#: 2**

ATTN: Andrew Stenzel

Test Start: 2014.03.17 @ 17:21:15

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 45.00 sec/qt  
Water Loss: 8.76 in<sup>3</sup>  
Resistivity: 0.00 ohm.m  
Salinity: 7200.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 0 deg API  
Water Salinity: 13000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mcw 50%mn 50%w	0.305
62.00	w cm 30%w 70%m	0.314
186.00	w cm 2%w 98%m	2.609
340.00	mud 100% m	4.769

Total Length: 650.00 ft      Total Volume: 7.997 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .767@54.2= 13,000 ppm

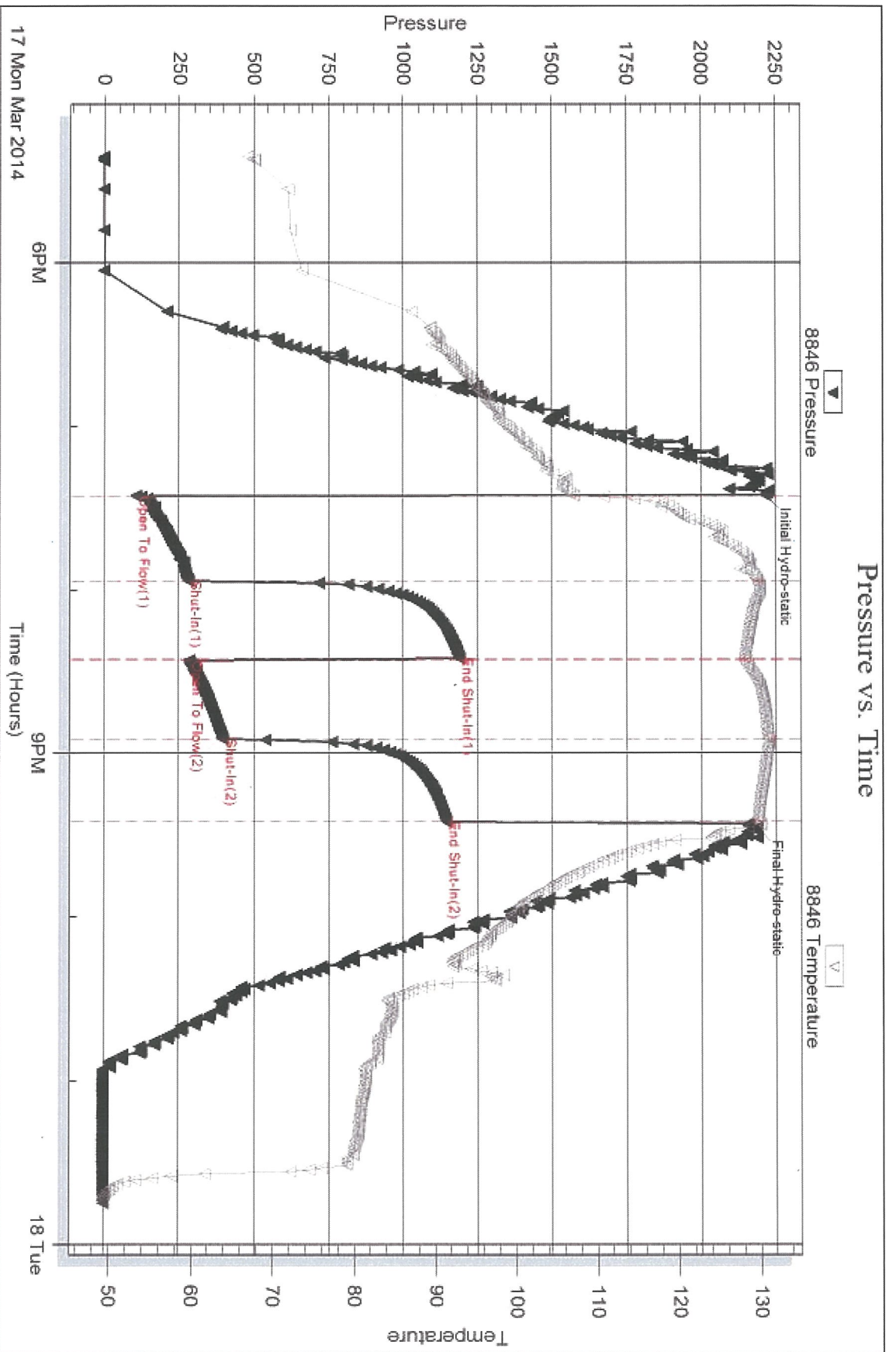
Serial #: 8846

Inside

Palomino Petroleum, Inc.

Mabel Hess #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 56414

Printed: 2014.03.20 @ 19:01:55

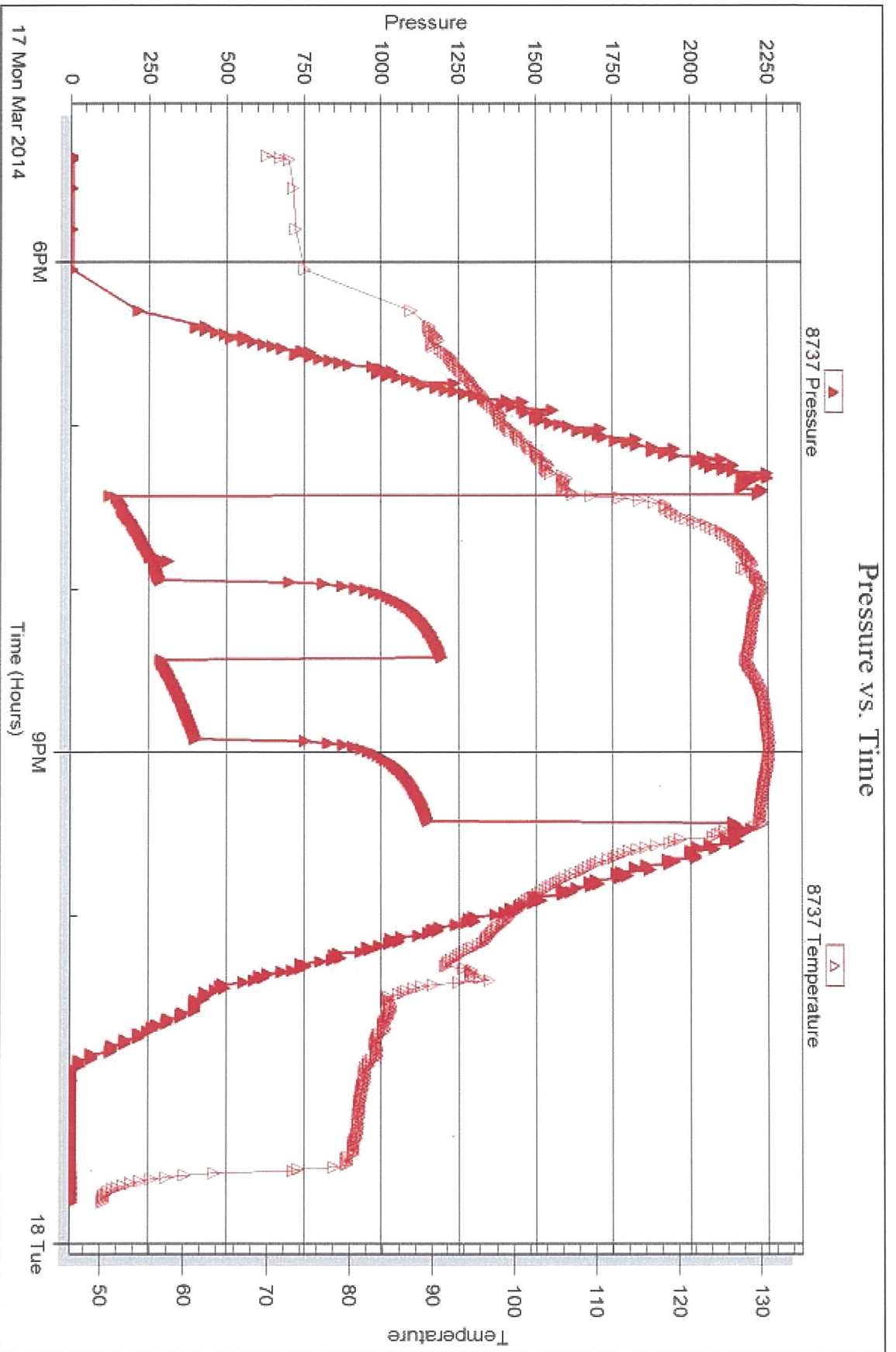
Serial #: 8737

Outside

Palomino Petroleum, Inc.

Mabel Hoss #1

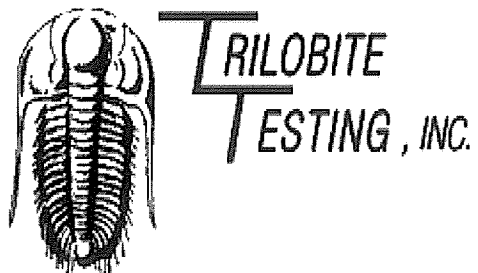
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56414

Printed: 2014.03.20 @ 19:01:55



## DRILL STEM TEST REPORT

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

4924 SE 84th St.  
Newton, KS 67114

ATTN: Andrew Stenzel

**Mabel Hoss #1**

**4-20s-25w Ness,KS**

Start Date: 2014.03.18 @ 20:47:00

End Date: 2014.03.19 @ 03:23:00

Job Ticket #: 56502                      DST #: 3

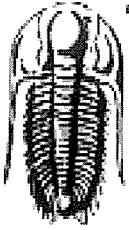
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.03.20 @ 19:00:41





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.  
 4924 SE 84th St.  
 Newton, KS 67114  
 ATTN: Andrew Stenzel

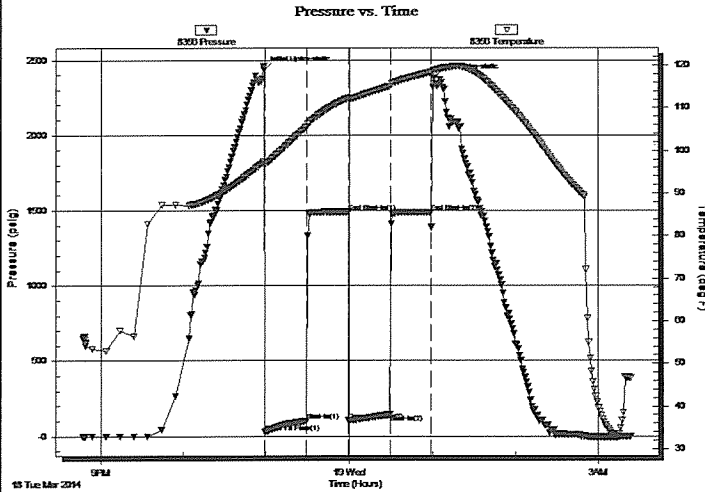
**4-20s-25w Ness, KS**  
**Mabel Hoss #1**  
 Job Ticket: 56502      **DST#: 3**  
 Test Start: 2014.03.18 @ 20:47:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 22:59:00  
 Time Test Ended: 03:23:00  
 Test Type: Conventional Straddle (Reset)  
 Tester: Cornelio Landa III  
 Unit No: 60  
 Interval: **4776.00 ft (KB) To 4820.00 ft (KB) (TVD)**  
 Reference Elevations: 2451.00 ft (KB)  
 Total Depth: 4900.00 ft (KB) (TVD)      2446.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8356      Outside**  
 Press@RunDepth: 143.88 psig @ 4784.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.03.18      End Date: 2014.03.19      Last Calib.: 2014.03.19  
 Start Time: 20:47:05      End Time: 03:22:59      Time On Btm: 2014.03.18 @ 22:58:30  
 Time Off Btm: 2014.03.19 @ 01:01:00

TEST COMMENT: IF: 8" of blow  
 IS: Bled off in 1 1/2 min.-No return  
 FF: 6 1/2" of blow  
 FS: Bled off in 1 1/2 min.-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2431.78	97.49	Initial Hydro-static
1	26.42	96.49	Open To Flow (1)
31	101.05	105.47	Shut-In(1)
61	1490.39	112.33	End Shut-In(1)
61	103.27	112.03	Open To Flow (2)
91	143.88	115.11	Shut-In(2)
120	1489.63	118.33	End Shut-In(2)
123	2381.96	118.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
123.00	Mw 20m 80w	0.60
151.00	Wm 20w 80m	2.12

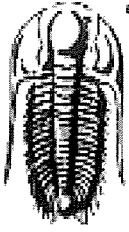
\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**4-20s-25w Ness,KS**

4924 SE 84th St.  
New ton, KS 67114

**Mabel Hoss #1**

Job Ticket: 56502

**DST#: 3**

ATTN: Andrew Stenzel

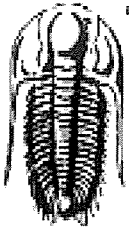
Test Start: 2014.03.18 @ 20:47:00

### Tool Information

Drill Pipe:	Length: 4643.00 ft	Diameter: 3.80 inches	Volume: 65.13 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: 26000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 12000.00 lb
			<u>Total Volume: 65.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4776.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	4820.00 ft			
Interval between Packers:	44.00 ft			
Tool Length:	151.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4750.00	
Shut In Tool	5.00			4755.00	
Hydraulic tool	5.00			4760.00	
Jars	5.00			4765.00	
Safety Joint	2.00			4767.00	
Packer	5.00			4772.00	27.00 Bottom Of Top Packer
Packer	4.00			4776.00	
Stubb	1.00			4777.00	
Perforations	6.00			4783.00	
Change Over Sub	1.00			4784.00	
Recorder	0.00	8373	Inside	4784.00	
Recorder	0.00	8356	Outside	4784.00	
Drill Pipe	31.00			4815.00	
Change Over Sub	1.00			4816.00	
Blank Off Sub	1.00			4817.00	
Top of straddle packer	3.00			4820.00	44.00 Tool Interval
Packer	1.00			4821.00	
Stubb	1.00			4822.00	
Perforations	8.00			4830.00	
Change Over Sub	1.00			4831.00	
Drill Pipe	63.00			4894.00	
Recorder	0.00	8360	Below	4894.00	
Change Over Sub	1.00			4895.00	
Bullnose	5.00			4900.00	80.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>151.00</b>				



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**4-20s-25w Ness,KS**

4924 SE 84th St.  
New ton, KS 67114

**Mabel Hoss #1**

Job Ticket: 56502

**DST#: 3**

ATTN: Andrew Stenzel

Test Start: 2014.03.18 @ 20:47:00

### 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:

24000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
123.00	Mw 20m 80w	0.605
151.00	Wm 20w 80m	2.118

Total Length: 274.00 ft

Total Volume: 2.723 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

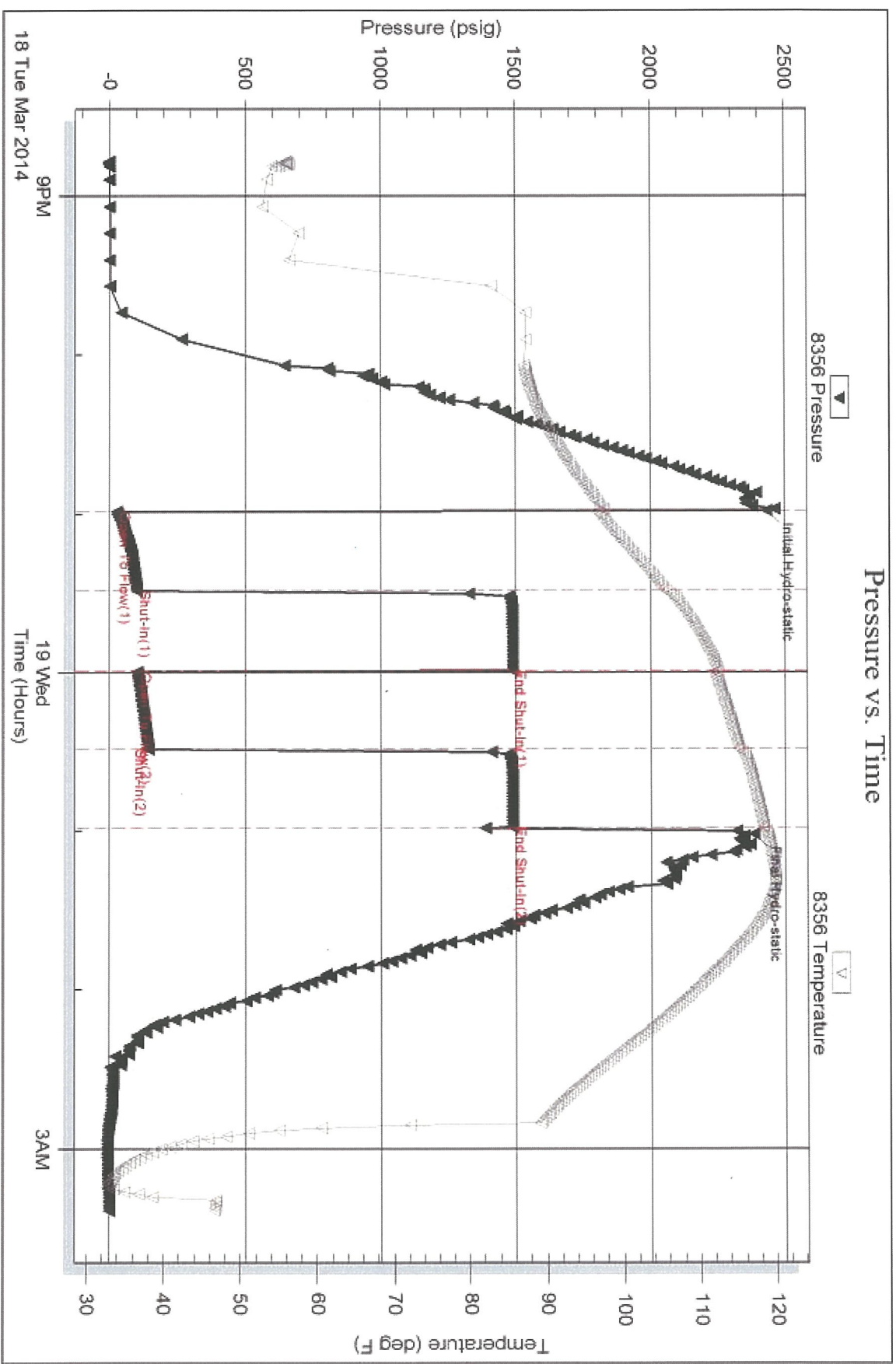
Recovery Comments: Rw .50@37=24000

Serial #: 8356

Outside Palomino Petroleum, Inc.

Mabel Hess #1

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 56502

Printed: 2014.03.20 @ 19:00:43

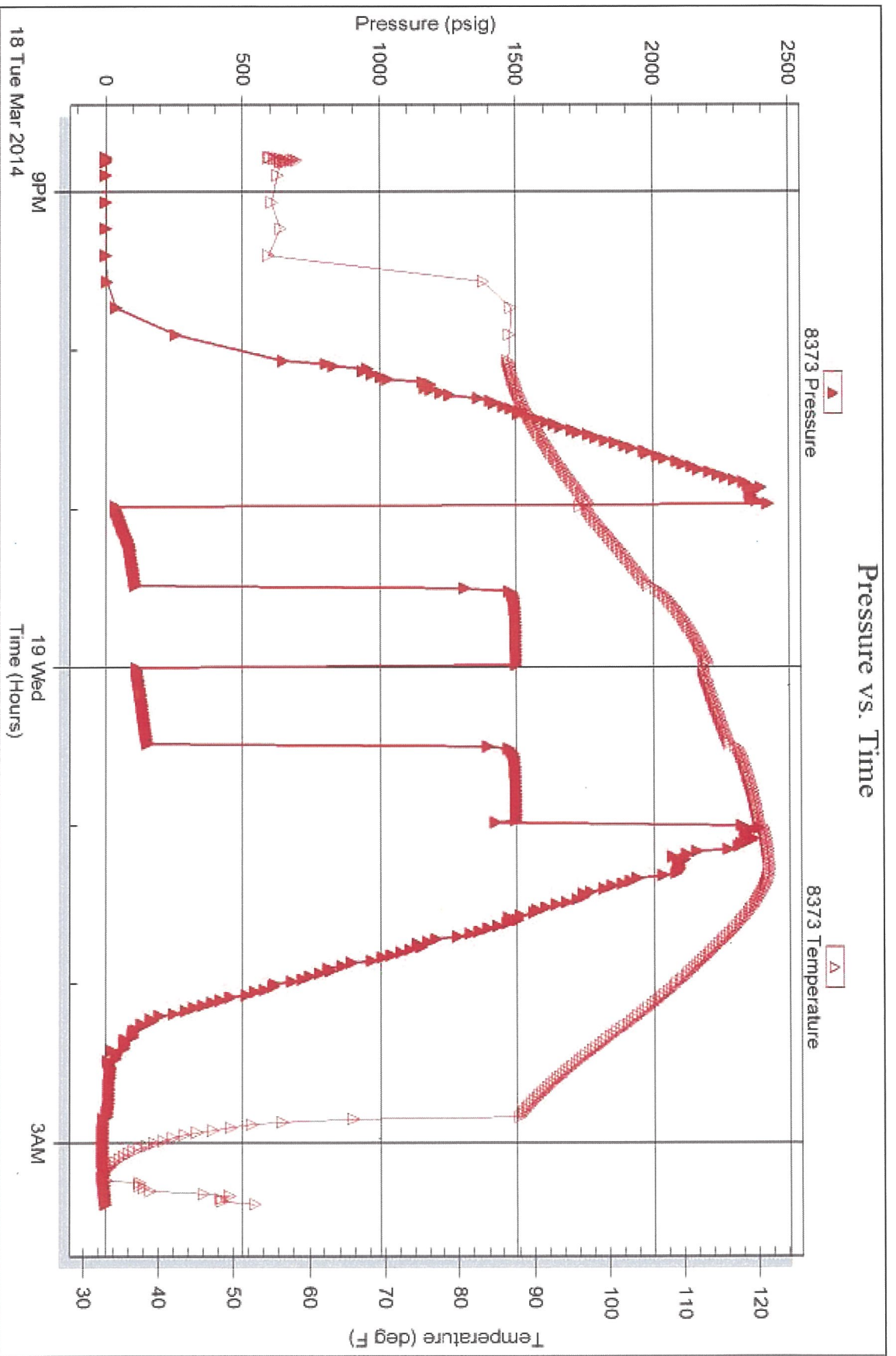
Serial #: 8373

Inside

Palomino Petroleum, Inc.

Mabel Hoss #1

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 56502

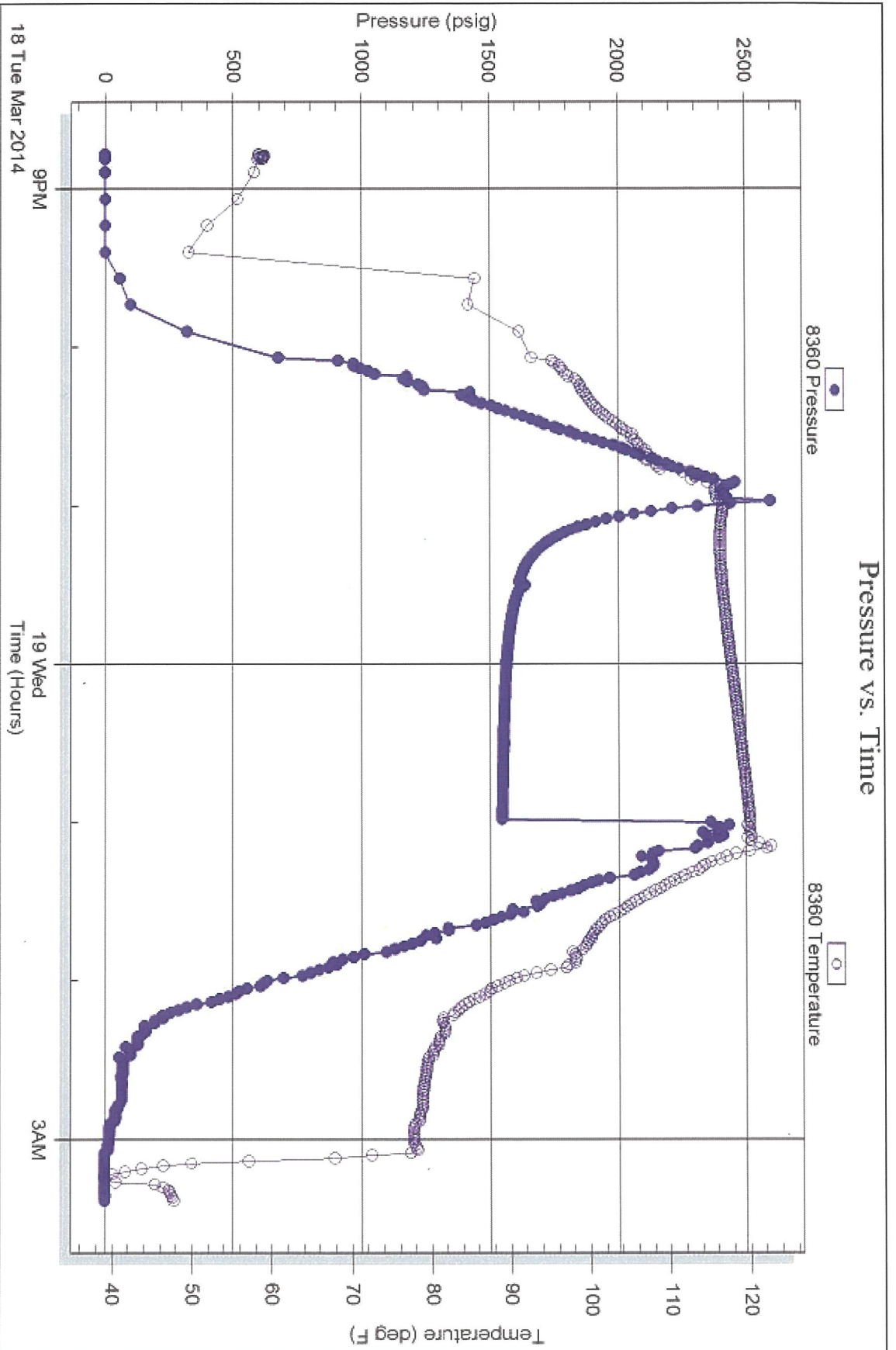
Printed: 2014.03.20 @ 19:00:43

Serial #: 8360

Below (Str. 8360) Petrolearn, Inc.

Mabel Hoss #1

DST Test Number: 3

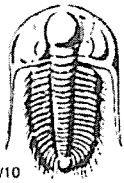


Tribble Testing, Inc

Ref. No: 56502

Printed: 2014.03.20 @ 19:00:44





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 56413

Well Name & No. Mabel Hoss #1 Test No. 1 Date 3-17-14  
 Company Palomino Petroleum Inc. Elevation 2451 KB 2446 GL  
 Address 4924 SE 84th Street Newton KS 67114  
 Co. Rep / Geo. Andrew Stenzel Rig WW10  
 Location: Sec. 4 Twp. 20S Rge. 25W Co. Ness State KS

Interval Tested 4404-4502 Zone Tested Miss  
 Anchor Length 98 Drill Pipe Run 4262 Mud Wt. 8.9  
 Top Packer Depth 4399 Drill Collars Run 123 Vis 51  
 Bottom Packer Depth 4404 Wt. Pipe Run Ø WL 7.2  
 Total Depth 4502 Chlorides 7200 ppm System LCM 1

Blow Description IF: Built to 2" Blow  
IS: No Return Blow  
FF: Built to 1" Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

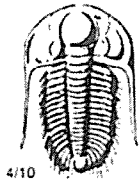
Rec Total 62 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2239  Test 1250 T-On Location 02:00  
 (B) First Initial Flow 59  Jars 250 T-Started 06:02  
 (C) First Final Flow 73  Safety Joint 75 T-Open 08:10  
 (D) Initial Shut-In 1320  Circ Sub NC T-Pulled 10:10  
 (E) Second Initial Flow 74  Hourly Standby T-Out 11:48  
 (F) Second Final Flow 90  Mileage 120 RT 110 RT 170.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1313  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2198  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1745.50  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1745.50

Approved By \_\_\_\_\_ Our Representative Mike Roberts

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. 56414

Well Name & No. Mabel Hess #1 Test No. 2 Date 3-17-14  
 Company Palomino Petroleum Inc. Elevation 2451 KB 2446 GL  
 Address 4924 SE 84<sup>th</sup> Street Newton KS 67114  
 Co. Rep / Geo. Andrew Stenzel Rig 10W10  
 Location: Sec. 4 Twp. 20S Rge. 25W Co. Ness State KS

Interval Tested 4404-4515 Zone Tested Miss  
 Anchor Length 111 Drill Pipe Run 4262 Mud Wt. 9.5  
 Top Packer Depth 4399 Drill Collars Run 123 Vis 45  
 Bottom Packer Depth 4404 Wt. Pipe Run Ø WL 8.8  
 Total Depth 4515 Chlorides 7200 ppm System LCM 1

Blow Description IF: BOB in 7 Min  
IS: No Return Blow  
FF: BOB in 7 Min  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>340</u>	<u><del>WCM</del> M</u>		<u>Ø</u>	<u>Ø</u>	<u>100</u>
<u>186</u>	<u>WCM</u>		<u>2.30</u>	<u>77</u>	<u>98</u>
<u>62</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	<u>%mud</u>
<u>62</u>	<u>WCM</u>		<u>50</u>	<u>50</u>	<u>%mud</u>
Rec	Feet of	%gas	%oil	%water	%mud

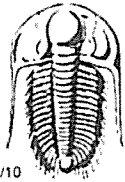
Rec Total 650 BHT 130 Gravity — API RW 767 @ 54.7°F Chlorides 13000 ppm

(A) Initial Hydrostatic 2213  Test 1250 T-On Location 16:00  
 (B) First Initial Flow 106  Jars 250 T-Started 17:21  
 (C) First Final Flow 280  Safety Joint 75 T-Open 19:25  
 (D) Initial Shut-In 1189  Circ Sub NC T-Pulled 21:25  
 (E) Second Initial Flow 283  Hourly Standby \_\_\_\_\_ T-Out 23:44  
 (F) Second Final Flow 395  Mileage 120 RT 170.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1143  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2183  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 0  
 Total 1745.50  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1745.50

Approved By \_\_\_\_\_ Our Representative Alto Roberts

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. 56502

Well Name & No. Mabel Moss # 1 Test No. 3 Date 3-18-14  
 Company Palomino Petroleum Inc. Elevation 2451 KB 2446 GL  
 Address 4924 SE 84th St. - Newton, KS 67114  
 Co. Rep / Geo. Andrew Stenzel Rig W/W #10  
 Location: Sec. 4 Twp. 20-S Rge. 25W Co. Miss State Ks

Interval Tested 4776-4820 Zone Tested Miss  
 Anchor Length 44' Tail 80' Drill Pipe Run 4643' Mud Wt. 9.3  
 Top Packer Depth 4772 Drill Collars Run 123 Vis SI  
 Bottom Packer Depth 4776 Wt. Pipe Run Ø WL 8.8  
 Total Depth 4900 Chlorides 7,000 ppm System LCM #1

Blow Description IF: 8 in. Blow  
ISE: Bled off in 1/2 min. No Return  
FF: 6 1/2 in. of Blow  
FSE: Bled off in 1/2 min. No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>123</u>	<u>MW</u>		<u>80</u>	<u>20</u>	
<u>151</u>	<u>WM</u>		<u>20</u>	<u>80</u>	

Rec Total 274 BHT 119 Gravity — API RW: 50 @ 37 °F Chlorides 24,000 ppm

(A) Initial Hydrostatic 2432  Test 1250 T-On Location 20:00  
 (B) First Initial Flow 26  Jars 250 T-Started 20:47  
 (C) First Final Flow 101  Safety Joint 75 T-Open 22:59  
 (D) Initial Shut-In 1490  Circ Sub NIC T-Pulled 00:59  
 (E) Second Initial Flow 103  Hourly Standby \_\_\_\_\_ T-Out 03:23  
 (F) Second Final Flow 144  Mileage 110 R-T 170.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1490  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2382  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 2595.50  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2595.50

Approved By [Signature] Our Representative [Signature]

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