



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



# Invoice

DATE	INVOICE #
5/19/2017	30322

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

RECEIVED

MAY 26 2017

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Cobra Rock	Gove	Express Well Serv...	Oil	Development	Cement 5 1/2 Por...	David K.

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	60	Miles	5.00	300.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars	1	Job	1,250.00	1,250.00
330	Swift Multi-Density Standard (MIDCON II)	175	Sacks	15.75	2,756.25T
276	Flocele	50	Lb(s)	2.25	112.50T
290	D-Air	2	Gallon(s)	42.00	84.00T
105	Port Collar Tool Rental With Man	1	Each	275.00	275.00T
581D	Service Charge Cement	225	Sacks	1.50	337.50
583D	Drayage	671	Ton Miles	0.75	503.25
	Subtotal				5,618.50
	Sales Tax Gove County			8.50%	274.36

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$5,892.86
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Services, Inc.

CHARGE TO: Palomino Petroleum  
 ADDRESS: Palomino Petroleum  
 CITY, STATE, ZIP CODE

TICKET 30322

PAGE 1 OF 1

SERVICE LOCATIONS: 1. Well/PROJECT NO. #1  
 2. Lease Cabera Rock  
 3. RIG NAME/NO. Cove  
 4. STATE KS CITY Wichita  
 DATE 5-19-17 OWNER Savage  
 TICKET TYPE SERVICE CONTRACTOR Express Well Services  
 WELLS TYPE OIL WELLS CATEGORY Development JOB PURPOSE Cement 5 1/2" Port Collar  
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
575				Job # 112				60	mi	\$5.00	300.00
576 D				Pump Charge - Port Collar				1	job	1250.00	1250.00
330				SMB Cement				175	cks	15.75	2756.25
276				Floacle				1/4	lb	2.25	112.50
290				D-Air				2	gal	42.00	84.00
105				Port Collar Tool Rental				5 1/2	lin	275.00	275.00
581				Service Charge Cement				225	cks	1.50	337.50
583				Drayage				22350	lbs	671.74	15015.25

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

DATE SIGNED 5-14-17 TIME SIGNED 12:00 P.M.

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

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

SWIFT OPERATOR David Muehn APPROVAL

THANK YOU!

JOB LOG

SWIFT Services, Inc.

DATE 5-19-17 PAGE NO. 1

CUSTOMER Palomino Petroleum WELL NO. #1 LEASE Cobra Rock JOB TYPE 5 1/2" Port Collar TICKET NO. #30322

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1130							on location 2 7/8" x 5 1/2"
								P.C. - 2000' 225 sks SMD w/ 1/4" flo
	1245	∅	∅		✓		1000	Pressure Test *Hold*
								Open P.C.
		3 1/2	4		✓		400	Injection Rate
	1255	4	96		✓		300	mix 175 sks SMD 1/4" flo @ 11.2 ppg circulate cement to surface * 20 sks *
		3 1/2	11		✓			Displace cement
	1320	∅	∅		✓		1000	Close P.C. PSE Test *Hold*
								Run 4 jts *175 sks total* *20 sks to pit*
	1330	3 1/2	25		✓		300	Reverse clean
								wash up truck
	1400							Job Complete

Thank You  
Dave Preston Kirby



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

RECEIVED

MAY 18 2017

# Invoice

DATE	INVOICE #
5/13/2017	30032

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	Cobra Rock	Gove	WW Drilling Rig ...	Oil	Development	Long String	David E.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	5.00	250.00
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				1	Each	250.00	250.00T
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				11	Each	75.00	825.00T
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				550	Lb(s)	0.20	110.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				57	Lb(s)	2.25	128.25T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				558	Ton Miles	0.75	418.50
	Subtotal							11,214.00
	Sales Tax Gove County						8.50%	761.43

**We Appreciate Your Business!**

**Total**

\$11,975.43



Services, Inc.

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

TICKET 30032

PAGE 1 OF

1. SERVICE LOCATIONS <u>Hays, KS</u>	WELL/PROJECT NO. <u>#1</u>	LEASE <u>Cobra Rock</u>	COUNTY/PARISH <u>Gove</u>	STATE <u>KS</u>	CITY	DATE <u>5-13-17</u>	OWNER
2. <u>Ness City, KS</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input checked="" type="checkbox"/> SALES	CONTRACTOR <u>Wm Drilling</u>	RIG NAME/NO. <u>Rig # 12</u>	SHIPPED WA	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>development</u>	JOB PURPOSE <u>Long String</u>		WELL PERMIT NO.	WELL LOCATION	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575		2			MILEAGE <u>Tot # 11</u>	50	Mi				5.00	250.00
578		2			<u>Pump Charge - Long String</u>	1	EA				1250.00	1250.00
290		2			<u>D-Air</u>	3	EA				42.00	126.00
221		2			<u>Lvsia Kor</u>	4	EA				25.00	100.00
281		2			<u>Muddrsk</u>	500	EA				1.25	625.00
403		1			<u>Cement Basket</u>	1	EA			5 1/2	250.00	250.00
404		1			<u>Port Collar</u>	1	EA				2500.00	2500.00
406		1			<u>Latch Down Plug Basket</u>	1	EA				225.00	225.00
407		1			<u>Insert Floor Shoe w/ Auto Fill</u>	1	EA				300.00	300.00
409		1			<u>Turbolizer</u>	11	EA				75.00	825.00
		1			<u>Rotating Head Rental</u>	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.

**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	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE 1 OF 2

TOTAL 1195.43

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_

SWIFT OPERATOR: David Edgerston 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 \_\_\_\_\_ PAGE NO. \_\_\_\_\_

CUSTOMER Palomino Petroleum WELL NO. #1 LEASE Cobra Rock JOB TYPE Long String TICKET NO. 30032

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2030							On location
								Rtd - 4500
								Pipe - 4502 70
								Shoe - 42.69 @ 4460
								Centralizers - 1, 3, 5, 7, 9, 11, 12, 14 16, 18, 58
								Basket - 59
								Port Collar - 59
	2230							Start running Csg
	2425							break circulation on Bottom
	110	5						pump mud flush - 500 Gal
	115	2.5	12					plug rat hole - 30 sks
	120	6	0			300		Start cmf. 95 sks SMD @ 12.7"
		6	35					Switch to 100 sks FA-2 @ 15.5"
		6	59			100		End cmf
								Drop plug/wash P+L
	140	5.5	0			100		START Disp
	20.5	5	109			800		land plug lift psi - 800 land psi - 1500
								Release psi - Dry
								Thanks David, Flint & Isaac

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln  
RUSSELL, KS 67665

# Invoice

RECEIVED  
MAY 10 2017

Date	Invoice #
5/7/2017	2934

Bill To
PALOMINO PETROLEUM INC 4924 SE 84TH ST NEWTON,KS 67114

P.O. No.	Terms	Project
COBRA ROCK#1	Due on receipt	

Quantity	Description	Rate	Amount
90	COMMON	16.00	1,440.00
60	POZ	9.50	570.00
5	CALCIUM	59.00	295.00
3	GEL	21.50	64.50
158	HANDLING	1.90	300.20
	BULK MILEAGE	237.00	237.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	750.00	750.00
15	PUMP TRUCK MILEAGE	7.00	105.00
15	PICKUP FOR TRANSPORTATION OF GOODS TO JOB SITE	3.00	45.00
	DEDUCT 20% FROM TOTAL IF PAID WITHIN 15 DAYS OF INVOICE	0.00	0.00
	GOVE CO SALES TAX	8.50%	0.00

Thank you for your business.

**Total** \$3,806.70



# GLOBAL OIL FIELD SERVICES, LLC

2934

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell, KS

DATE <u>5-5-17</u>	SEC. <u>12</u>	TWP. <u>14</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>11 PM</u>
LEASE <u>COBRA ROCK</u>		WELL #. <u>1</u>	LOCATION <u>Colver, KS</u>		COUNTY <u>GOVE</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR WJW Drilling Rig # 12

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4 T.D. 211.68'

CASING SIZE 8 5/8 DEPTH 201.68' + 10' LT

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX. MINIMUM

MEAS. LINE SHOE JOINT 40.39'

CEMENT LEFT IN CSG. 20'

PERFS

DISPLACEMENT 12 BBL

EQUIPMENT

PUMP TRUCK CEMENTER BAND

# 417 HELPER JASON

BULK TRUCK

# 378 DRIVER TOM

BULK TRUCK

# DRIVER

REMARKS:

RUN IN 5-JTS NEW 8 5/8" CASING 10' LT

CIRCULATE MUD, MIX 150 SX, DISPLACE 122

12 BBL H2O, SHUT IN @ 200 PSI, CEMENT

DO CIRCULATE

CHARGE TO: Palomino Petro

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Global Oil Field Services, LLC

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

PRINTED NAME Calvin Hannonstrel

SIGNATURE [Signature]

OWNER \_\_\_\_\_

CEMENT AMOUNT ORDERED 150 SX 60/100 P02

3% CC 2% GEL

COMMON \_\_\_\_\_ @ \_\_\_\_\_

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL \_\_\_\_\_ @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

HANDLING \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

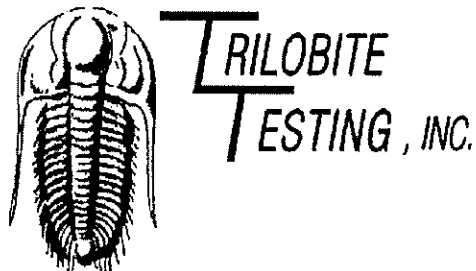
\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114-8827

ATTN: Sean Deenihan

### **Cobra Rock #1**

### **12-14s-26w Gove,KS**

Start Date: 2017.05.10 @ 02:30:48

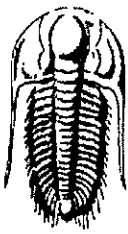
End Date: 2017.05.10 @ 08:09:42

Job Ticket #: 64146                      DST #: 1

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

Printed: 2017.05.12 @ 14:41:51

Palomino Petroleum Inc  
12-14s-26w Gove,KS  
Cobra Rock #1  
DST # 1  
LKC "B"  
2017.05.10



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
 4924 SE 84th St  
 Newton, KS 67114-8827  
 ATTN: Sean Deenihan

12-14s-26w Gove, KS  
**Cobra Rock #1**  
 Job Ticket: 64146      DST#: 1  
 Test Start: 2017.05.10 @ 02:30:48

## GENERAL INFORMATION:

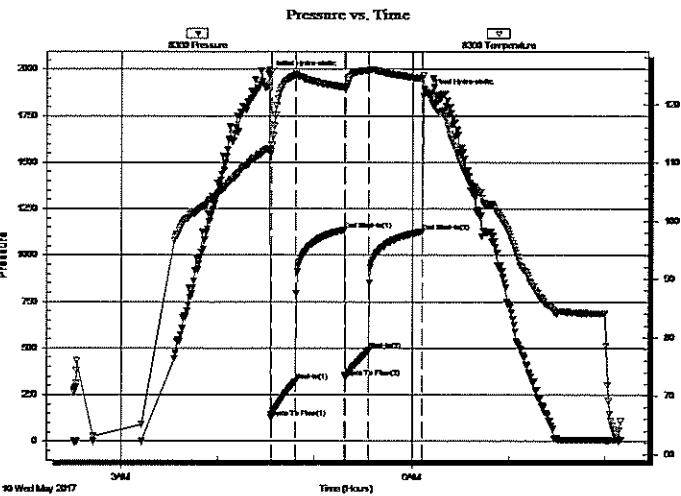
Formation: **LKC "B"**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 04:33:13  
 Time Test Ended: 08:09:42  
 Interval: **3863.00 ft (KB) To 3893.00 ft (KB) (TVD)**  
 Total Depth: **3893.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches**      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2559.00 ft (KB)  
 2551.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8360

Inside

Press@RunDepth: 487.98 psig @ 3865.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2017.05.10      End Date: 2017.05.10      Last Calib.: 2017.05.10  
 Start Time: 02:30:48      End Time: 08:09:42      Time On Btm: 2017.05.10 @ 04:32:28  
 Time Off Btm: 2017.05.10 @ 06:09:58

TEST COMMENT: 15-IFP-BOB in 2 min  
 30-ISIP-no bl  
 15-FFP-BOB in 5 min  
 30-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.81	112.40	Initial Hydro-static
1	123.88	111.99	Open To Flow (1)
16	323.14	125.00	Shut-In(1)
46	1137.29	122.86	End Shut-In(1)
47	344.63	122.68	Open To Flow (2)
61	487.98	125.73	Shut-In(2)
94	1126.38	124.36	End Shut-In(2)
98	1871.63	121.57	Final Hydro-static

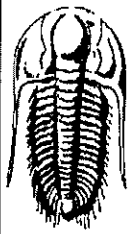
## Recovery

Length (ft)	Description	Volume (bbl)
810.00	Water	10.27
70.00	MW 20%M80%W w/show of oil	0.98

## 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 St  
New ton,KS 67114-8827  
  
ATTN: Sean Deenihan

**12-14s-26w Gove,KS**  
**Cobra Rock #1**  
Job Ticket: 64146      DST#: 1  
Test Start: 2017.05.10 @ 02:30:48

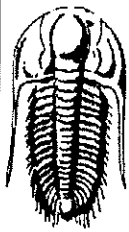
### Tool Information

Drill Pipe:	Length: 3728.00 ft	Diameter: 3.80 inches	Volume: 52.29 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 52.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3863.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	56.00 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			3838.00	
Shut In Tool	5.00			3843.00	
Hydraulic tool	5.00			3848.00	
Jars	5.00			3853.00	
Packer	5.00			3858.00	26.00      Bottom Of Top Packer
Packer	5.00			3863.00	
Stubb	1.00			3864.00	
Perforations	1.00			3865.00	
Recorder	0.00	8360	Inside	3865.00	
Recorder	0.00	6751	Outside	3865.00	
Perforations	25.00			3890.00	
Bullnose	3.00			3893.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 56.00**



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc  
4924 SE 84th St  
New ton,KS 67114-8827  
  
ATTN: Sean Deenihan

**12-14s-26w Gove,KS**  
**Cobra Rock #1**  
Job Ticket: 64146      DST#: 1  
Test Start: 2017.05.10 @ 02:30:48

## 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:	84000 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7200.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
810.00	Water	10.269
70.00	MW 20%M80%W w/show of oil	0.982

Total Length: 880.00 ft      Total Volume: 11.251 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .09 @ 70F

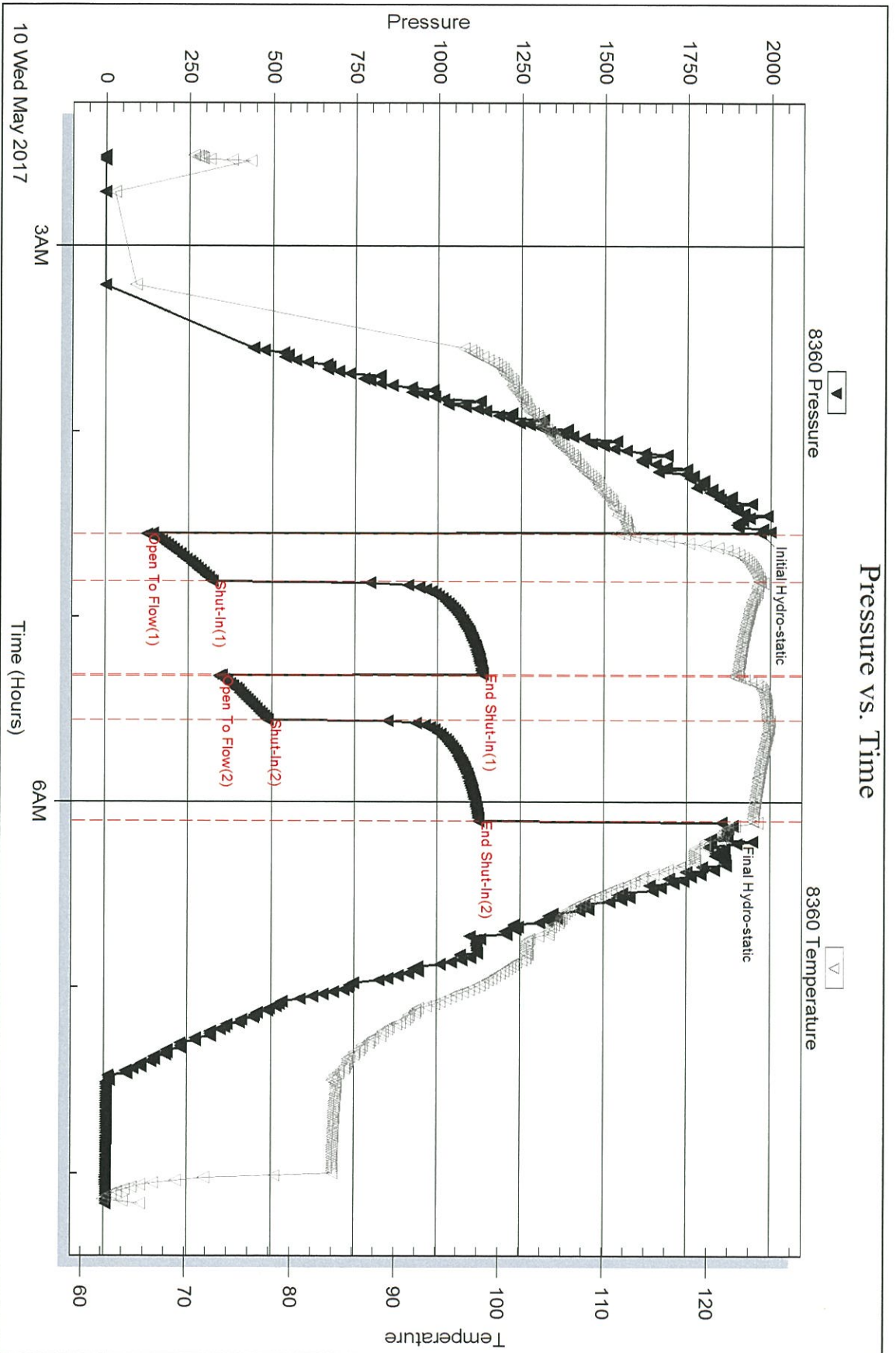
Serial #: 8360

Inside

Palomino Petroleum Inc

Cobra Rock #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64146

Printed: 2017.05.12 @ 14:41:52

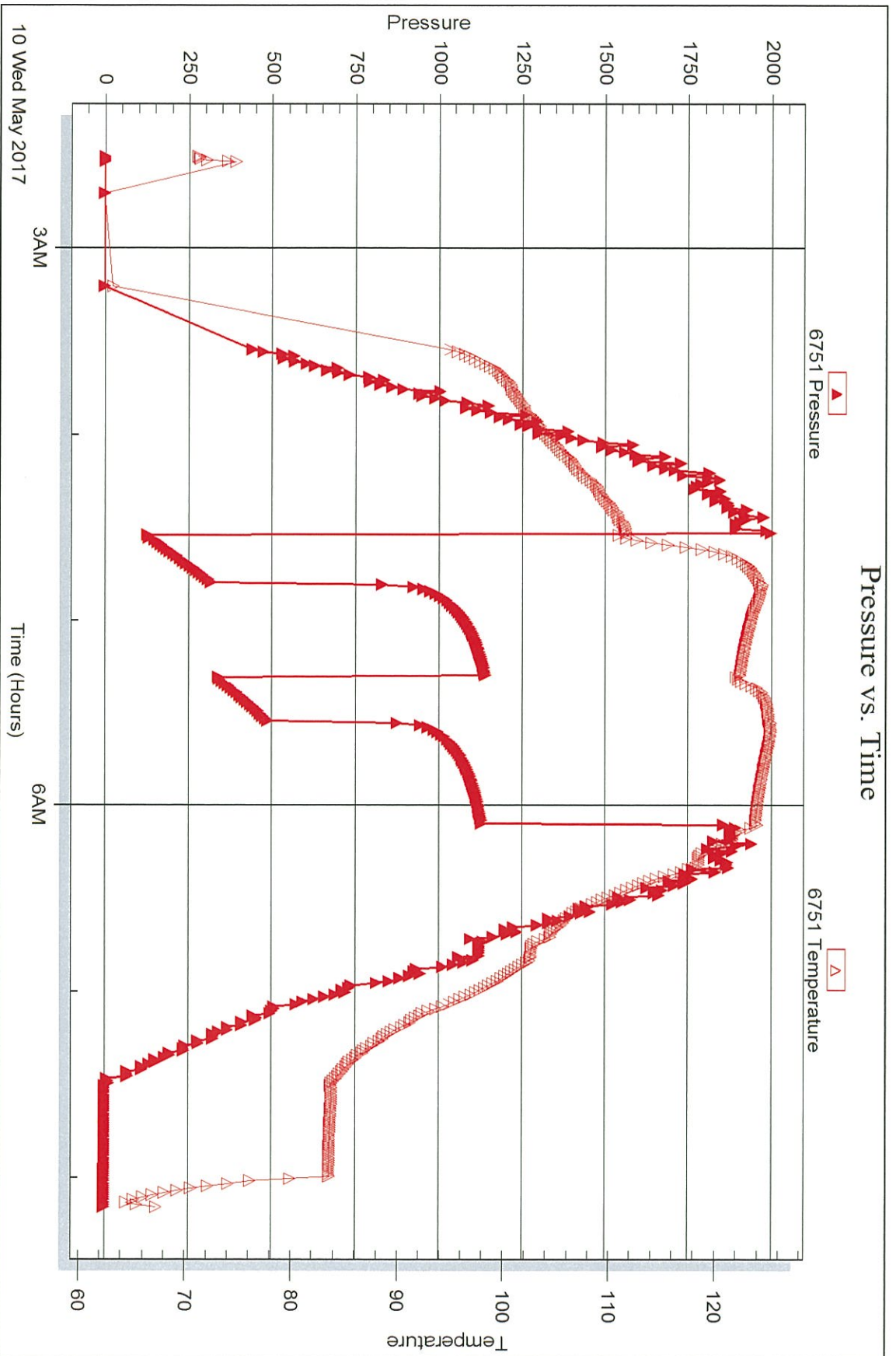
Serial #: 6751

Outside

Palomino Petroleum Inc

Cobra Rock #1

DST Test Number: 1

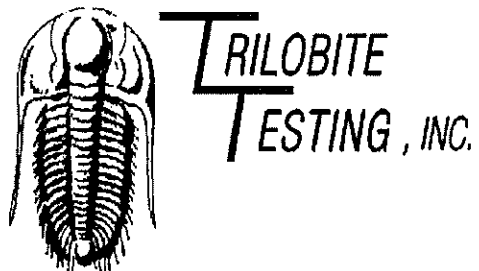


Trilobite Testing, Inc

Ref. No: 64146

Printed: 2017.05.12 @ 14:41:52





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114-8827

ATTN: Sean Deenihan

### **Cobra Rock #1**

#### **12-14s-26w Gove,KS**

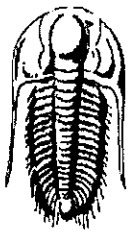
Start Date: 2017.05.10 @ 14:05:54

End Date: 2017.05.10 @ 19:53:33

Job Ticket #: 64147                      DST #: 2

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

Printed: 2017.05.12 @ 14:41:29



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
 4924 SE 84th St  
 Newton, KS 67114-8827  
 ATTN: Sean Deenihan

12-14s-26w Gove, KS  
**Cobra Rock #1**  
 Job Ticket: 64147      DST#: 2  
 Test Start: 2017.05.10 @ 14:05:54

## GENERAL INFORMATION:

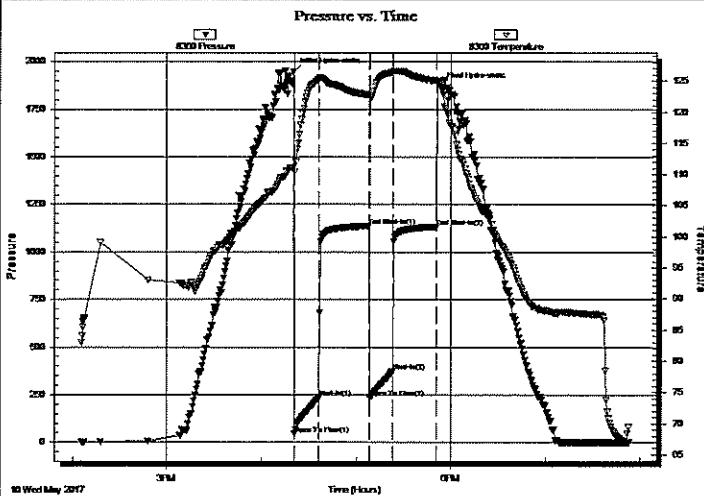
Formation: **LKC E-F**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 16:20:49      Tester: Ray Schwager  
 Time Test Ended: 19:53:33      Unit No: 77  
 Interval: **3908.00 ft (KB) To 3943.00 ft (KB) (TVD)**      Reference Elevations: 2559.00 ft (KB)  
 Total Depth: 3943.00 ft (KB) (TVD)      2551.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 8.00 ft

## Serial #: 8360

Inside

Press@RunDepth: 370.38 psig @ 3910.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2017.05.10      End Date: 2017.05.10      Last Calib.: 2017.05.10  
 Start Time: 14:05:54      End Time: 19:53:33      Time On Btm: 2017.05.10 @ 16:20:04  
 Time Off Btm: 2017.05.10 @ 17:53:04

TEST COMMENT: 15-IFP-BOB in 3 min  
 30-ISIP-no bl  
 15-FFP-BOB in 4 1/2 min  
 30-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1944.11	111.11	Initial Hydro-static
1	44.70	110.43	Open To Flow (1)
17	236.28	125.26	Shut-In(1)
48	1136.64	122.70	End Shut-In(1)
49	235.84	122.31	Open To Flow (2)
63	370.38	126.34	Shut-In(2)
91	1130.60	124.96	End Shut-In(2)
93	1870.97	124.04	Final Hydro-static

## Recovery

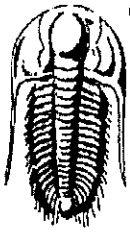
Length (ft)	Description	Volume (bbl)
620.00	Water	7.60
90.00	MW 25%M75%	1.26

\* 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 St  
New ton,KS 67114-8827  
ATTN: Sean Deenihan

12-14s-26w Gove,KS  
**Cobra Rock #1**  
Job Ticket: 64147      DST#: 2  
Test Start: 2017.05.10 @ 14:05:54

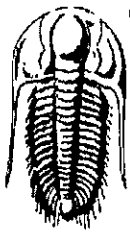
### Tool Information

Drill Pipe:	Length: 3792.00 ft	Diameter: 3.80 inches	Volume: 53.19 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3908.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	61.00 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			3883.00	
Shut In Tool	5.00			3888.00	
Hydraulic tool	5.00			3893.00	
Jars	5.00			3898.00	
Packer	5.00			3903.00	26.00      Bottom Of Top Packer
Packer	5.00			3908.00	
Stubb	1.00			3909.00	
Perforations	1.00			3910.00	
Recorder	0.00	8360	Inside	3910.00	
Recorder	0.00	6751	Outside	3910.00	
Perforations	30.00			3940.00	
Bullnose	3.00			3943.00	35.00      Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc  
4924 SE 84th St  
New ton,KS 67114-8827  
  
ATTN: Sean Deenihan

**12-14s-26w Gove,KS**  
**Cobra Rock #1**  
Job Ticket: 64147      **DST#: 2**  
Test Start: 2017.05.10 @ 14:05:54

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	100000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	Water	7.604
90.00	MW 25%M75%	1.262

Total Length: 710.00 ft      Total Volume: 8.866 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .07 @75F

Serial #: 8360

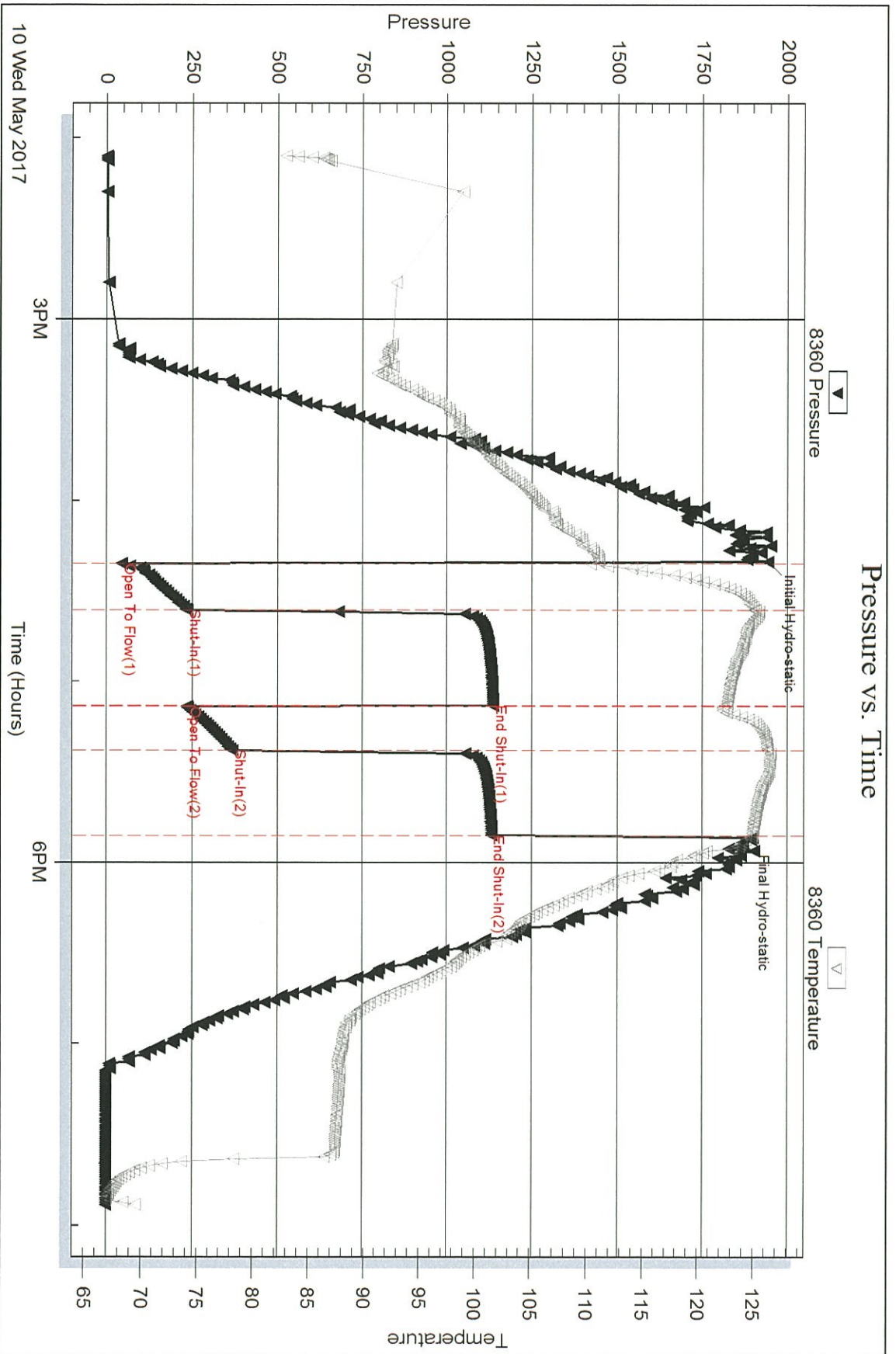
Inside

Palomino Petroleum Inc

Cobra Rock #1

DST Test Number: 2

### Pressure vs. Time

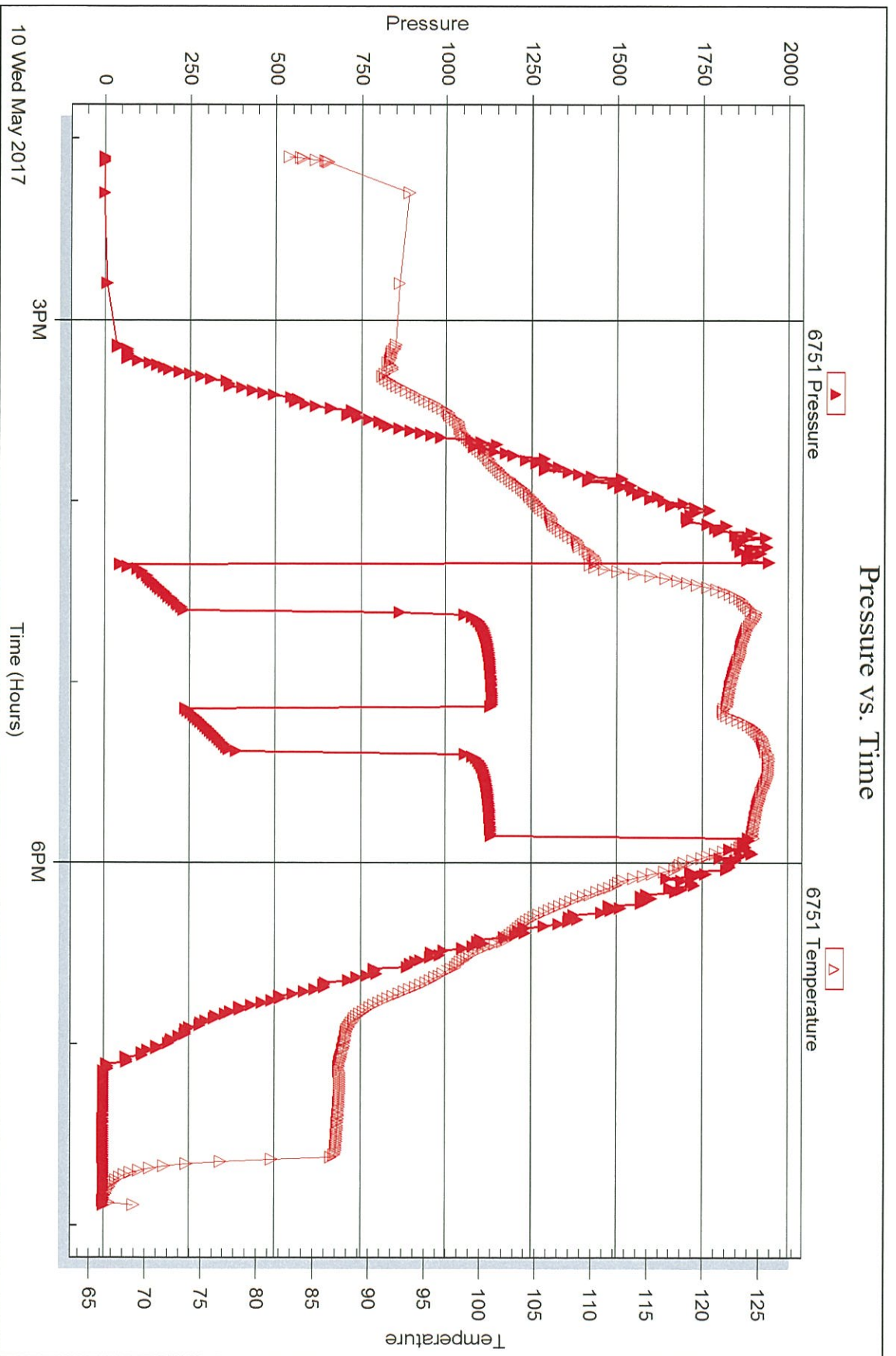


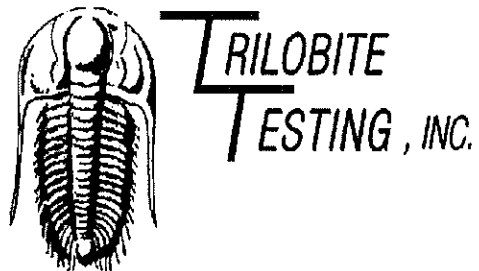
Serial #: 6751

Outside Palomino Petroleum Inc

Cobra Rock #1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114-8827

ATTN: Sean Deenihan

### **Cobra Rock #1**

#### **12-14s-26w Gove,KS**

Start Date: 2017.05.11 @ 08:55:53

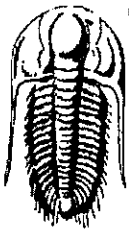
End Date: 2017.05.11 @ 14:58:47

Job Ticket #: 64148                      DST #: 3

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

Printed: 2017.05.12 @ 14:35:55





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
4924 SE 84th St  
New ton, KS 67114-8827  
  
ATTN: Sean Deenihan

**12-14s-26w Gove, KS**  
**Cobra Rock #1**  
Job Ticket: 64148      DST#: 3  
Test Start: 2017.05.11 @ 08:55:53

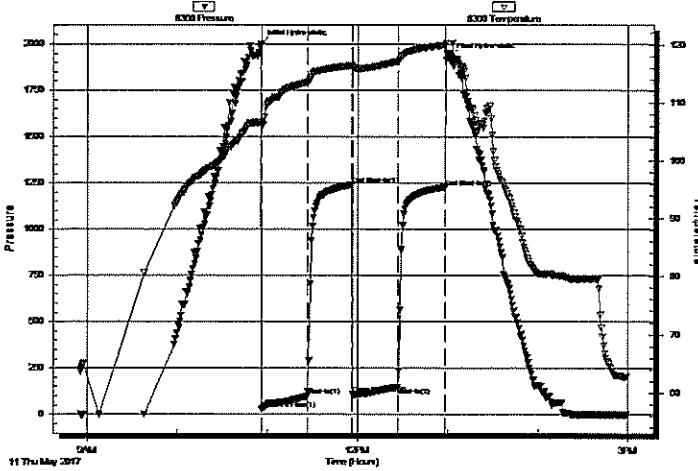
## GENERAL INFORMATION:

Formation: **LKC H-I**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: **10:56:18**  
Time Test Ended: **14:58:47**  
Interval: **3985.00 ft (KB) To 4042.00 ft (KB) (TVD)**  
Total Depth: **3893.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Ray Schwager**  
Unit No: **77**  
Reference Elevations: **2559.00 ft (KB)**  
**2551.00 ft (CF)**  
KB to GR/CF: **8.00 ft**

**Serial #: 8360**      **Inside**  
Press@RunDepth: **149.55 psig @ 3987.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2017.05.11**      End Date: **2017.05.11**      Last Calib.: **2017.05.11**  
Start Time: **08:55:53**      End Time: **14:58:47**      Time On Btm: **2017.05.11 @ 10:55:33**  
Time Off Btm: **2017.05.11 @ 13:01:03**

TEST COMMENT: 30-IFP-1/2" to BOB in 9 min  
30-ISIP-3" bl bk  
30-FFP-1/2" to BOB in 9 min  
30-FSIP-6" bl bk

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.81	106.69	Initial Hydro-static
1	26.43	106.12	Open To Flow (1)
32	99.09	113.49	Shut-In(1)
61	1239.26	116.39	End Shut-In(1)
61	111.15	116.02	Open To Flow (2)
92	149.55	117.12	Shut-In(2)
123	1227.13	119.95	End Shut-In(2)
126	1932.77	117.36	Final Hydro-static

Recovery

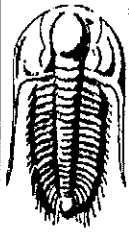
Length (ft)	Description	Volume (bbl)
62.00	GMO 10%G10%W20%M60%O	0.30
124.00	GMO 30%G5%m65%O	1.21
170.00	CO	2.38
0.00	820' GIP	0.00

\* 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 St  
New ton,KS 67114-8827  
  
ATTN: Sean Deenihan

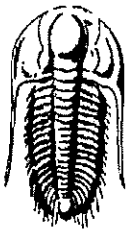
12-14s-26w Gove,KS  
**Cobra Rock #1**  
Job Ticket: 64148      DST#: 3  
Test Start: 2017.05.11 @ 08:55:53

### Tool Information

Drill Pipe:	Length: 3854.00 ft	Diameter: 3.80 inches	Volume: 54.06 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3985.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	83.00 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			3960.00	
Shut In Tool	5.00			3965.00	
Hydraulic tool	5.00			3970.00	
Jars	5.00			3975.00	
Packer	5.00			3980.00	26.00      Bottom Of Top Packer
Packer	5.00			3985.00	
Stubb	1.00			3986.00	
Perforations	1.00			3987.00	
Recorder	0.00	8360	Inside	3987.00	
Recorder	0.00	6751	Outside	3987.00	
Blank Spacing	33.00			4020.00	
Perforations	19.00			4039.00	
Bullnose	3.00			4042.00	57.00      Bottom Packers & Anchor

**Total Tool Length: 83.00**



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc  
4924 SE 84th St  
New ton,KS 67114-8827  
ATTN: Sean Deenihan

12-14s-26w Gove,KS  
**Cobra Rock #1**  
Job Ticket: 64148      DST#: 3  
Test Start: 2017.05.11 @ 08:55:53

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 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	GMO 10%G10%W20%M60%O	0.305
124.00	GMO 30%G5%W65%O	1.211
170.00	CO	2.385
0.00	820' GIP	0.000

Total Length: 356.00 ft      Total Volume: 3.901 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 8360

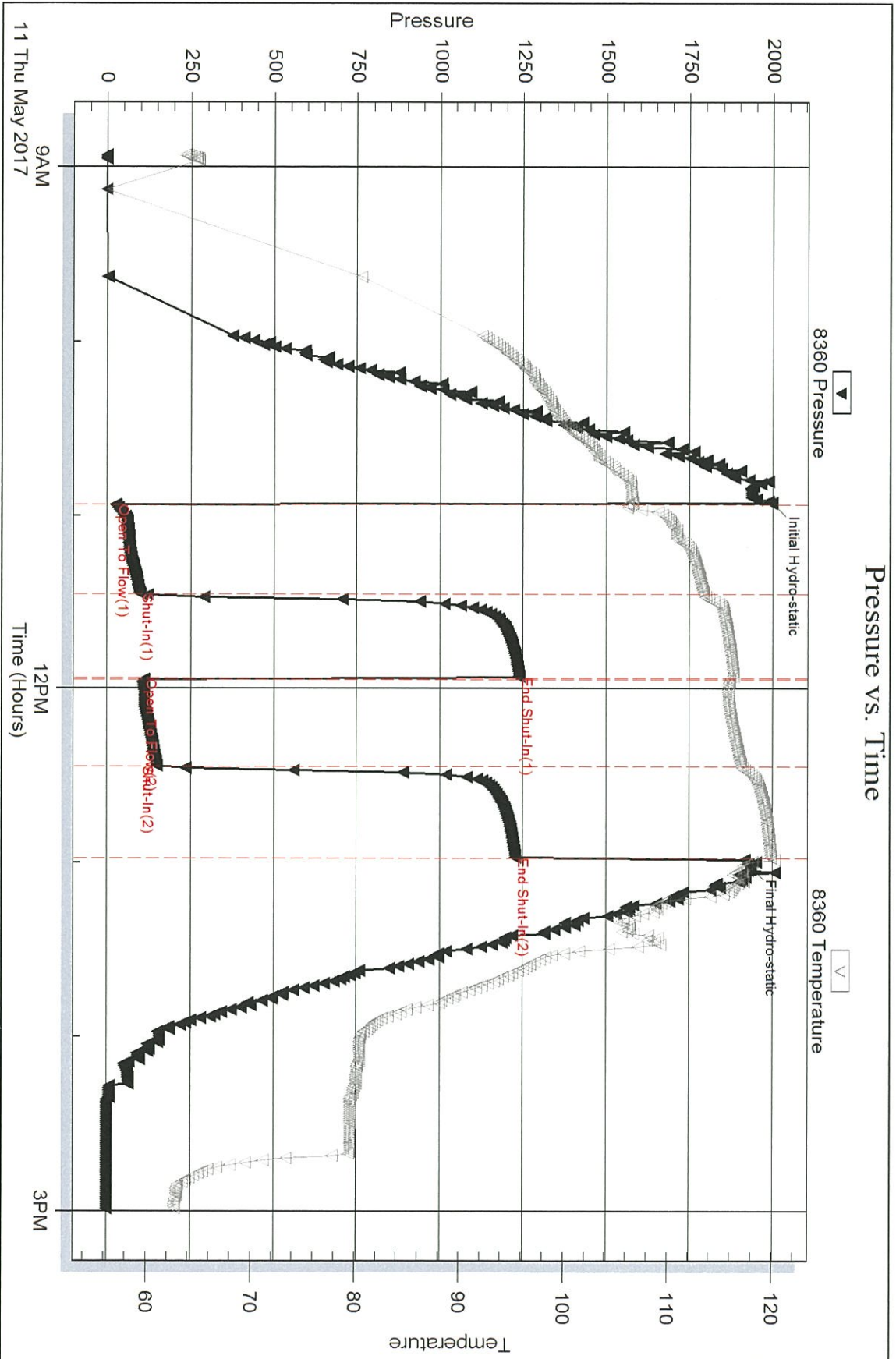
Inside

Palorino Petroleum Inc

Cobra Rock #1

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64148

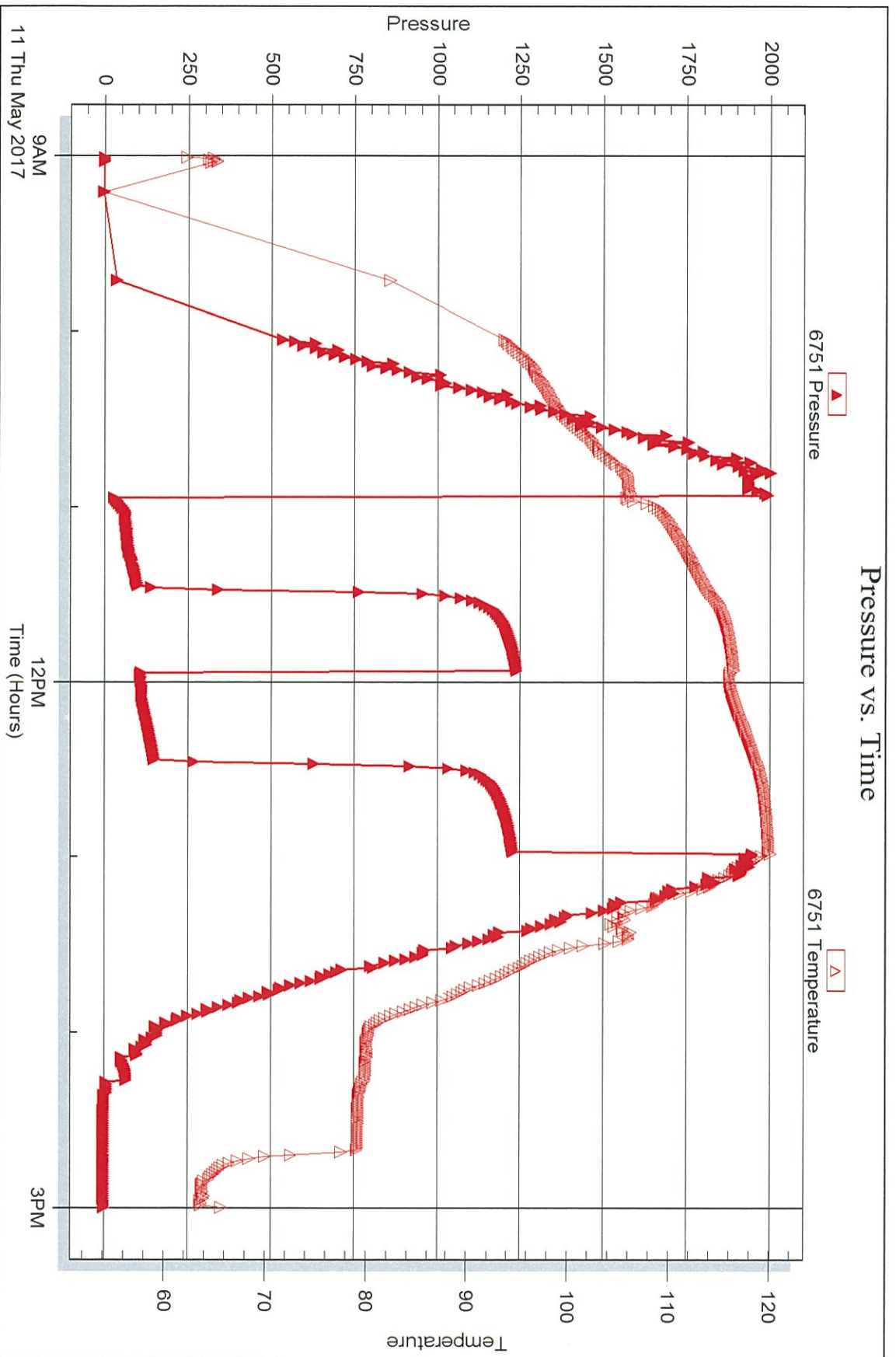
Printed: 2017.05.12 @ 14:35:55

Serial #: 6751

Outside Palorino Petroleum Inc

Cobra Rock #1

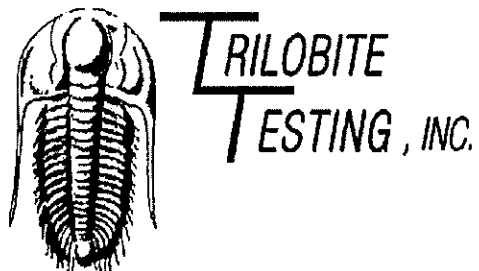
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64148

Printed: 2017.05.12 @ 14:35:56



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton,KS 67114-8827

ATTN: Sean Deenihan

### **Cobra Rock #1**

#### **12-14s-26w Gove,KS**

Start Date: 2017.05.12 @ 02:35:09

End Date: 2017.05.12 @ 07:00:33

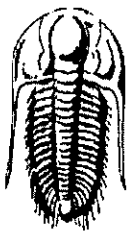
Job Ticket #: 64149                      DST #: 4

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.05.12 @ 14:30:04



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
 4924 SE 84th St  
 Newton, KS 67114-8827  
 ATTN: Sean Deenihan

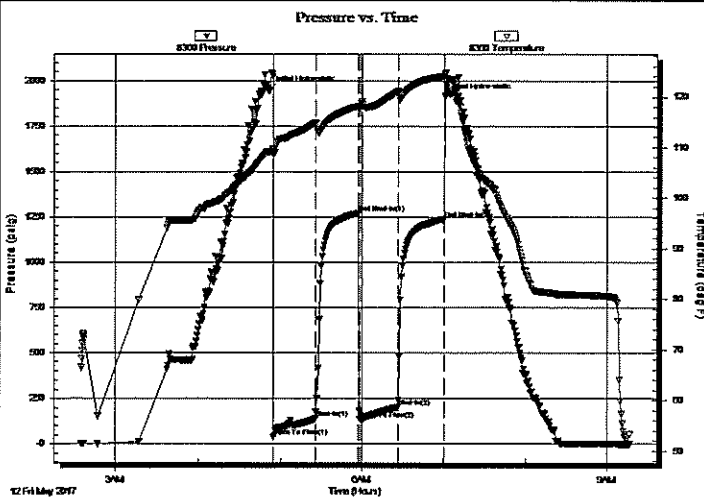
12-14s-26w Gove, KS  
**Cobra Rock #1**  
 Job Ticket: 64149      DST#: 4  
 Test Start: 2017.05.12 @ 02:35:09

## GENERAL INFORMATION:

Formation: LKC J-K  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:54:49  
 Time Test Ended: 07:00:33  
 Interval: 4051.00 ft (KB) To 4098.00 ft (KB) (TVD)  
 Total Depth: 4098.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2559.00 ft (KB)  
 2551.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8360**      Inside  
 Press@RunDepth: 203.61 psig @ 4062.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2017.05.12      End Date: 2017.05.12      Last Calib.: 2017.05.12  
 Start Time: 02:35:09      End Time: 09:16:33      Time On Btm: 2017.05.12 @ 04:52:04  
 Time Off Btm: 2017.05.12 @ 07:01:33

TEST COMMENT: 30-IFP BOB 6 min  
 30-ISIP 9 1/2" blow back  
 FFP- BOB through out  
 FSIP- BOB blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1948.97	109.11	Initial Hydro-static
3	39.03	108.75	Open To Flow (1)
34	138.78	114.91	Shut-In(1)
66	1270.22	118.15	End Shut-In(1)
66	131.87	117.83	Open To Flow (2)
95	203.61	121.17	Shut-In(2)
129	1238.13	124.09	End Shut-In(2)
130	1910.58	124.59	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMO 20%G20%M60%O	0.65
124.00	GMO 20%G15%M65%O	1.74
320.00	CO	4.49
0.00	GIP	0.00

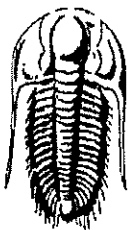
\* Recovery from multiple tests

## 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 St  
New ton,KS 67114-8827  
  
ATTN: Sean Deenihan

12-14s-26w Gove,KS  
**Cobra Rock #1**  
Job Ticket: 64149      DST#: 4  
Test Start: 2017.05.12 @ 02:35:09

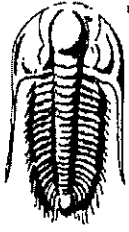
### Tool Information

Drill Pipe:	Length: 3915.00 ft	Diameter: 3.80 inches	Volume: 54.92 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4051.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	73.00 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			4026.00	
Shut In Tool	5.00			4031.00	
Hydraulic tool	5.00			4036.00	
Jars	5.00			4041.00	
Packer	5.00			4046.00	26.00      Bottom Of Top Packer
Packer	5.00			4051.00	
Stubb	1.00			4052.00	
Perforations	10.00			4062.00	
Recorder	0.00	8360	Inside	4062.00	
Recorder	0.00	6751	Outside	4062.00	
Blank Spacing	33.00			4095.00	
Bullnose	3.00			4098.00	47.00      Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Palomino Petroleum Inc  
4924 SE 84th St  
New ton,KS 67114-8827  
  
ATTN: Sean Deenihan

12-14s-26w Gove,KS  
**Cobra Rock #1**  
Job Ticket: 64149      DST#: 4  
Test Start: 2017.05.12 @ 02:35:09

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API: 39 deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4800.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
124.00	GMO 20%G20%M60%O	0.646
124.00	GMO 20%G15%M65%O	1.739
320.00	CO	4.489
0.00	GIP	0.000

Total Length: 568.00 ft      Total Volume: 6.874 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

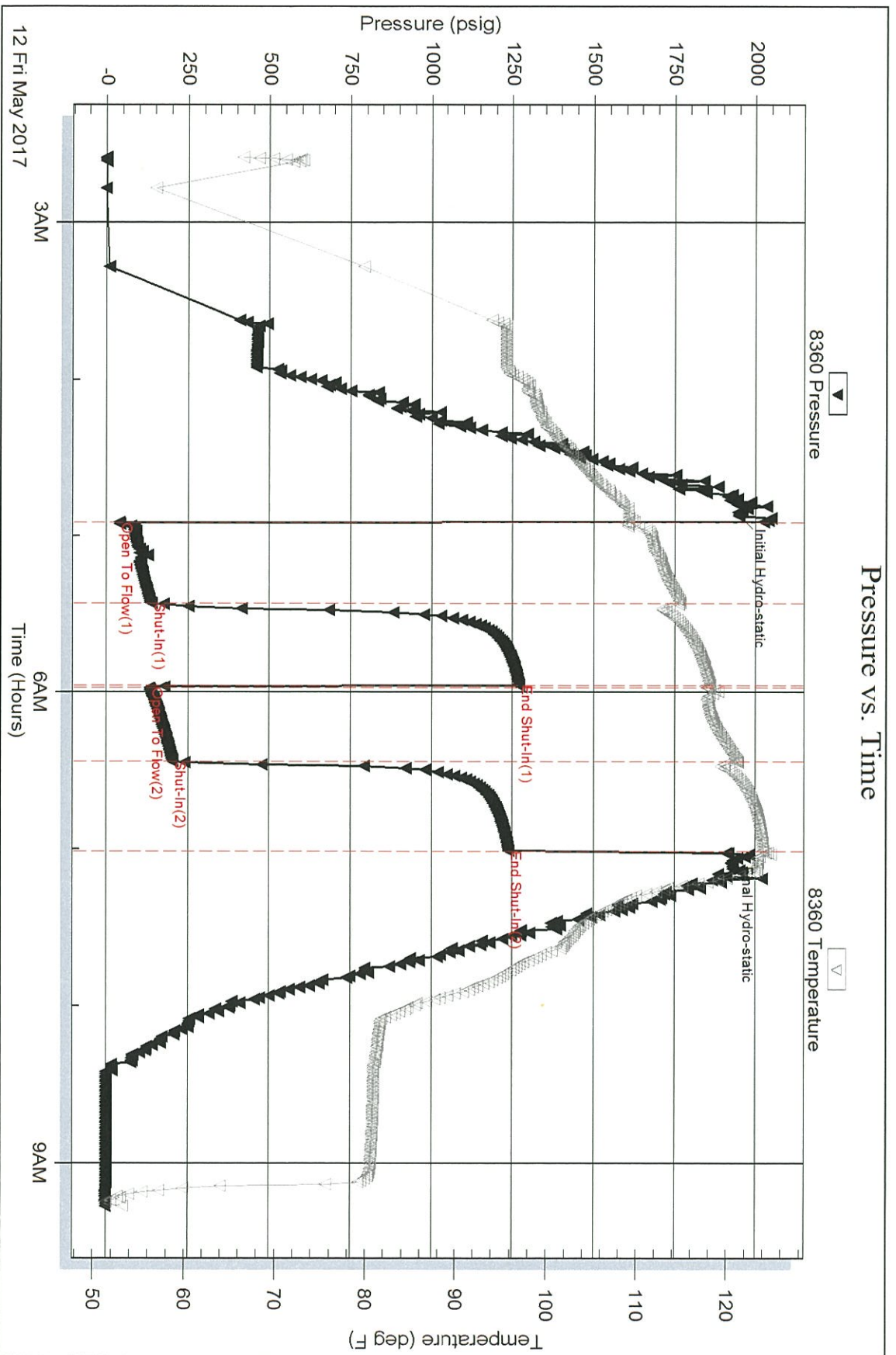
Serial #: 8360

Inside

Palomino Petroleum Inc

Cobra Rock #1

DST Test Number: 4

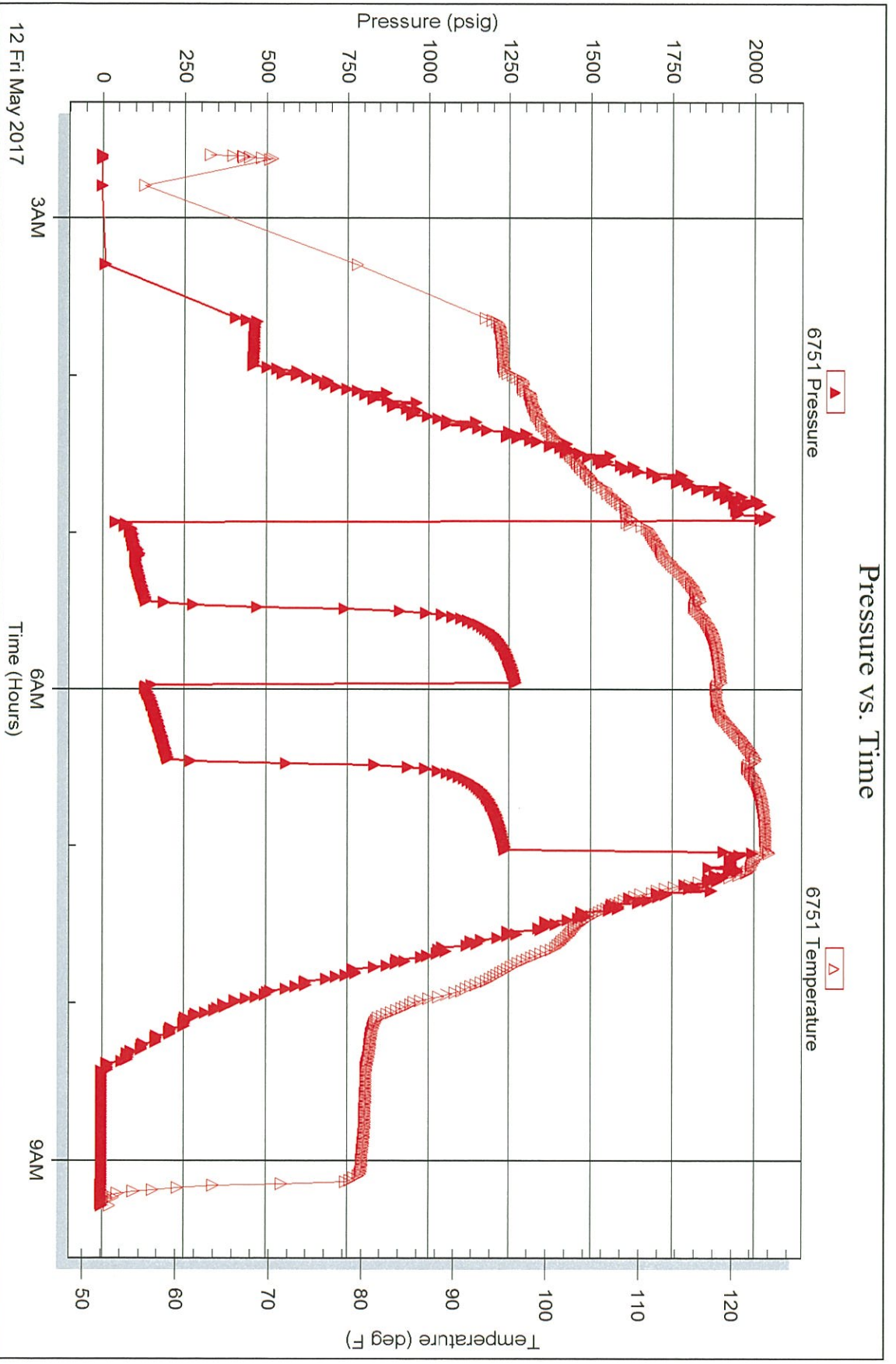


Serial #: 6751

Outside Palomino Petroleum Inc

Cobra Rock #1

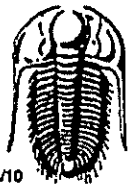
DST Test Number: 4



Triobble Testing, Inc

Ref. No: 64149

Printed: 2017.05.12 @ 14:30:06



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64146

Well Name & No. Cobra Rock #1 Test No. 1 Date 5-10-17  
 Company Palomino Petroleum, Inc Elevation 2559 KB 2551 GL  
 Address 4924 SE 84<sup>th</sup> ST. Newton, Ko 67114-8827  
 Co. Rep / Geo. Sean Deenihan Rig WWrig 12  
 Location: Sec. 12 Twp. 14<sup>s</sup> Rge. 26<sup>w</sup> Co. Gove State Ko

Interval Tested 3863-3893 Zone Tested LKC "B"  
 Anchor Length 30 Drill Pipe Run 3728 Mud Wt. 9.4  
 Top Packer Depth 3858 Drill Collars Run 120 Vis 65  
 Bottom Packer Depth 3863 Wt. Pipe Run - WL 6.4  
 Total Depth 3893 Chlorides 7200 ppm System LCM 2#

Blow Description IFP - BOB IN 2 MIN  
ISTP - NO BLOW  
FFP - BOB IN 5 MIN  
FSTP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Feet of MW w/showfall</u>		<u>80</u>	<u>20</u>	
<u>810</u>	<u>Feet of WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 880 BHT 124 Gravity - API RW .09 @ 70 °F Chlorides 84000 ppm  
 (A) Initial Hydrostatic 1968  Test 1050 T-On Location 0045  
 (B) First Initial Flow 123  Jars 250 T-Started 0230  
 (C) First Final Flow 323  Safety Joint \_\_\_\_\_ T-Open 0435  
 (D) Initial Shut-In 1137  Circ Sub \_\_\_\_\_ T-Pulled 0605  
 (E) Second Initial Flow 344  Hourly Standby \_\_\_\_\_ T-Out 0809  
 (F) Second Final Flow 487  Mileage 128 RT <sup>96</sup> Comments MOTEL STAY  
 (G) Final Shut-In 1126  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1871  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1396

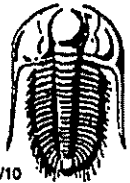
Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30

Sub Total 0  
 Total 1396  
 MP/DST Disc't \_\_\_\_\_

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

Our Representative Ray Schwager Thank you

Trilobite Testing Inc. shall not be liable for damaged or 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. 64147

Well Name & No. Cobra Rock #1 Test No. 2 Date 5-10-17  
 Company Palomino Petroleum Inc Elevation 2559 KB 2551 GL  
 Address 4924 SE 84<sup>th</sup> ST. Newton, Ks 67114-8827  
 Co. Rep / Geo. Sean Ocenihan Rig WW rig 12  
 Location: Sec. 12 Twp. 14<sup>s</sup> Rge. 26<sup>w</sup> Co. Govt State Ks

Interval Tested 3908-3943 Zone Tested LKC E-F  
 Anchor Length 35 Drill Pipe Run 3792 Mud Wt. 9.5  
 Top Packer Depth 3903 Drill Collars Run 120 Vis 60  
 Bottom Packer Depth 3908 Wt. Pipe Run - WL 6.8  
 Total Depth 3943 Chlorides 4800 ppm System LCM 2<sup>#</sup>  
 Blow Description IFP - BOBIN 3min  
ISIP - NO BLOW  
FFP - BOBIN 4 1/2 min  
FBITP - NO BLOW

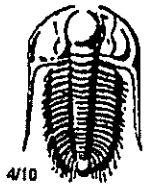
Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>MW</u>			<u>75</u>	<u>25</u>
<u>620</u>	<u>WATER</u>				

Rec Total 710 BHT 125 Gravity - API RW .67 @ 75 ° F Chlorides 100000 ppm

(A) Initial Hydrostatic <u>1944</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1310</u>
(B) First Initial Flow <u>44</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1405</u>
(C) First Final Flow <u>236</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1620</u>
(D) Initial Shut-In <u>1136</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1750</u>
(E) Second Initial Flow <u>235</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1953</u>
(F) Second Final Flow <u>370</u>	<input checked="" type="checkbox"/> Mileage <u>96</u>	Comments <u>Motel stay</u>
(G) Final Shut-In <u>1130</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1870</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</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>15</u>	<input type="checkbox"/> Extra Recorder	Total <u>1396</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1396</u>	

Approved By \_\_\_\_\_ Our Representative Ray Schwager *Thank you*

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64148

Well Name & No. Cobra Rock #1 Test No. 3 Date 5-18-17  
 Company Palomino Petroleum Inc Elevation 2559 KB 2551 GL  
 Address 4924 SE 84<sup>th</sup> ST. Newton, KS 67114-8827  
 Co. Rep / Geo. Sean Deenihan Rig WW rig 12  
 Location: Sec. 12 Twp. 14<sup>s</sup> Rge. 26<sup>w</sup> Co. Gove State Ks

Interval Tested 3985-4042 Zone Tested LKC H-T  
 Anchor Length 57 Drill Pipe Run 3854 Mud Wt. 9.5  
 Top Packer Depth 3980 Drill Collars Run 120 Vis 60  
 Bottom Packer Depth 3985 Wt. Pipe Run - WL 6.8  
 Total Depth 4042 Chlorides 4800 ppm System LCM 2#

Blow Description IFP - 1/2" TO BOB IN 9 MIN  
ISTP - 3" BLOW BACK  
FFP - 1/2" TO BOB IN 9 MIN  
FSTP - 6" BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>820</u>	<u>GTP</u>				
<u>170</u>	<u>CO</u>				
<u>124</u>	<u>GMO</u>	<u>30</u>	<u>65</u>		<u>5</u>
<u>62</u>	<u>GMO</u>	<u>10</u>	<u>60</u>	<u>10</u>	<u>20</u>

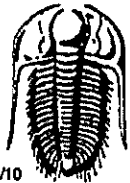
Rec Total 356 BHT 120 Gravity 34 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1998  Test 1150 T-On Location 0845  
 (B) First Initial Flow 26  Jars 250 T-Started 0855  
 (C) First Final Flow 99  Safety Joint \_\_\_\_\_ T-Open 1050  
 (D) Initial Shut-In 1239  Circ Sub \_\_\_\_\_ T-Pulled 1250  
 (E) Second Initial Flow 111  Hourly Standby \_\_\_\_\_ T-Out 1458  
 (F) Second Final Flow 149  Mileage 96 Comments \_\_\_\_\_  
 (G) Final Shut-In 1227  Sampler \_\_\_\_\_ MOTEL STAY  
 (H) Final Hydrostatic 1932  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 1496  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1496

Approved By \_\_\_\_\_ Our Representative Ray Schwager Thank you  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64149

Well Name & No. Cobra Rock #1 Test No. 4 Date 5-11-17  
 Company Palomino Petroleum Inc Elevation 2559 KB 2551 GL  
 Address 4924 SE 84<sup>th</sup> ST Newton, KS 67114-8827  
 Co. Rep / Geo. Sean Deenihan Rig WU rig 12  
 Location: Sec. 12 Twp. 14<sup>s</sup> Rge. 26<sup>w</sup> Co. 600R State Ks

Interval Tested 4051-4098 Zone Tested LKC J-K  
 Anchor Length 47 Drill Pipe Run 3915 Mud Wt. 9.5  
 Top Packer Depth 4046 Drill Collars Run 120 Vis 50  
 Bottom Packer Depth 4051 Wt. Pipe Run - WL 6.8  
 Total Depth 4098 Chlorides 4800 ppm System LCM 2 #

Blow Description IFP - BOB IN 6min  
ISIP - 9 1/2" Blow Back  
FFP - BOB Thru-out  
FSIP - BOB Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>1475</u>	<u>GTP</u>				
<u>320</u>	<u>C0</u>				
<u>124</u>	<u>GMO</u>	<u>20</u>	<u>65</u>		<u>15</u>
<u>124</u>	<u>GMO</u>	<u>20</u>	<u>60</u>		<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 568 BHT 124 Gravity 39 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1948  Test 1150 T-On Location 2300  
 (B) First Initial Flow 39  Jars 250 T-Started 0015  
 (C) First Final Flow 138  Safety Joint \_\_\_\_\_ T-Open 0235  
 (D) Initial Shut-In 1270  Circ Sub \_\_\_\_\_ T-Pulled 0435  
 (E) Second Initial Flow 131  Hourly Standby \_\_\_\_\_ T-Out 0700  
 (F) Second Final Flow 263  Mileage 96 Comments \_\_\_\_\_  
 (G) Final Shut-In 1238  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1910  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1496

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 0  
 Total 1496  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Ray Schwager Thank you

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