

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

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

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	COBRA ROCK 1
Doc ID	1375674

Tops

Name	Top	Datum
Anhy.	2038	(+ 521)
Base Anhy.	2068	(+ 491)
Topeka	3530	(- 971)
Heebner	3802	(-1243)
Lansing	3840	(-1281)
Muncie Creek	3984	(-1425)
Stark	4066	(-1507)
Marmaton	4144	(-1585)
Pawnee	4254	(-1695)
Ft. Scott	4324	(-1765)
Cherokee	4348	(-1789)
Miss.	4424	(-1865)
LTD	4499	(-1940)

Summary of Changes

Lease Name and Number: COBRA ROCK 1

API/Permit #: 15-063-22307-00-00

Doc ID: 1375674

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	07/11/2017	12/08/2017
Geologist Report / Mud Logs?		Yes
Perf_acid1		Acidized w/250 gal. 15% MCA, 750 gal. 20% NE
Perf_acid2		Acidized w/250 gal. 15% MCA, 1000 gal. 15% NE
Perf_acid3		Acidized w/250 gal. 15% MCA
Perf_acid4		Acidized w/250 gal. 15% MCA
Perf_perf1bottom		4000
Perf_perf1top		3995
Perf_perf2bottom		4087
Perf_perf2top		4079

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Perf_perf3bottom		4107
Perf_perf3top		4104
Perf_perf4bottom		4186
Perf_perf4top		4183
Perf_shots1		4
Perf_shots2		4
Perf_shots3		4
Perf_shots4		4
PerforationsRevised		[[dataGrid]]
Producing Formation	LKC	LKC H, K, L, Marmaton
Production Interval #1		3995
Production Interval #3		4186

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1359659
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

CONFIDENTIAL WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

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If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



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

We Appreciate Your Business!	Total	\$5,892.86
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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>Wu 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-AR</u>	3	EA				42.00	126.00
221		2			<u>Lavin Kar</u>	4	EA				25.00	100.00
281		2			<u>Mudflush</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 Plog & Batcher</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 TOTAL: 11 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>COBRA, 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
DID 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

@ _____

@ _____

@ _____

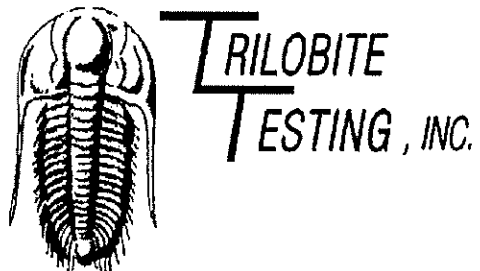
@ _____

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

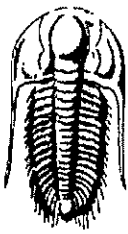
End Date: 2017.05.10 @ 08:09:42

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

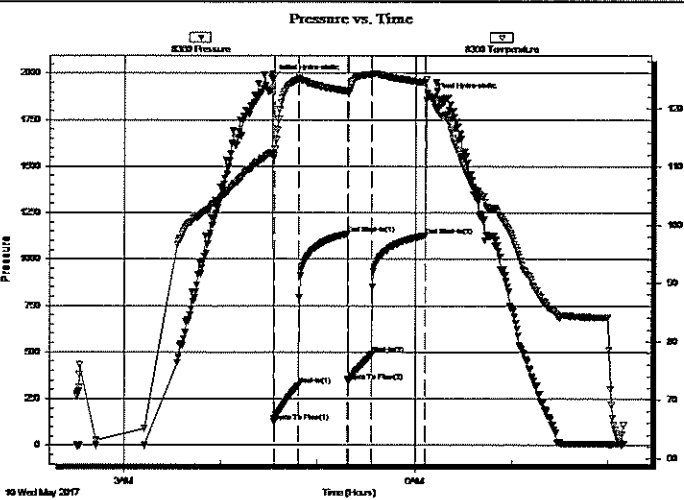
12-14s-26w Gove, KS
Cobra Rock #1
 Job Ticket: 64146 DST#: 1
 Test Start: 2017.05.10 @ 02:30:48

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

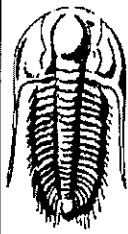
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.81	112.40	Initial Hydro-static
1	123.88	111.99	Open To Flow (1)
16	323.14	125.00	Shut-In(1)
46	1137.29	122.86	End Shut-In(1)
47	344.63	122.68	Open To Flow (2)
61	487.98	125.73	Shut-In(2)
94	1126.38	124.36	End Shut-In(2)
98	1871.63	121.57	Final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

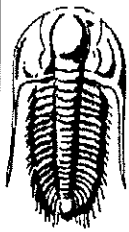
Tool Information

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 ³	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

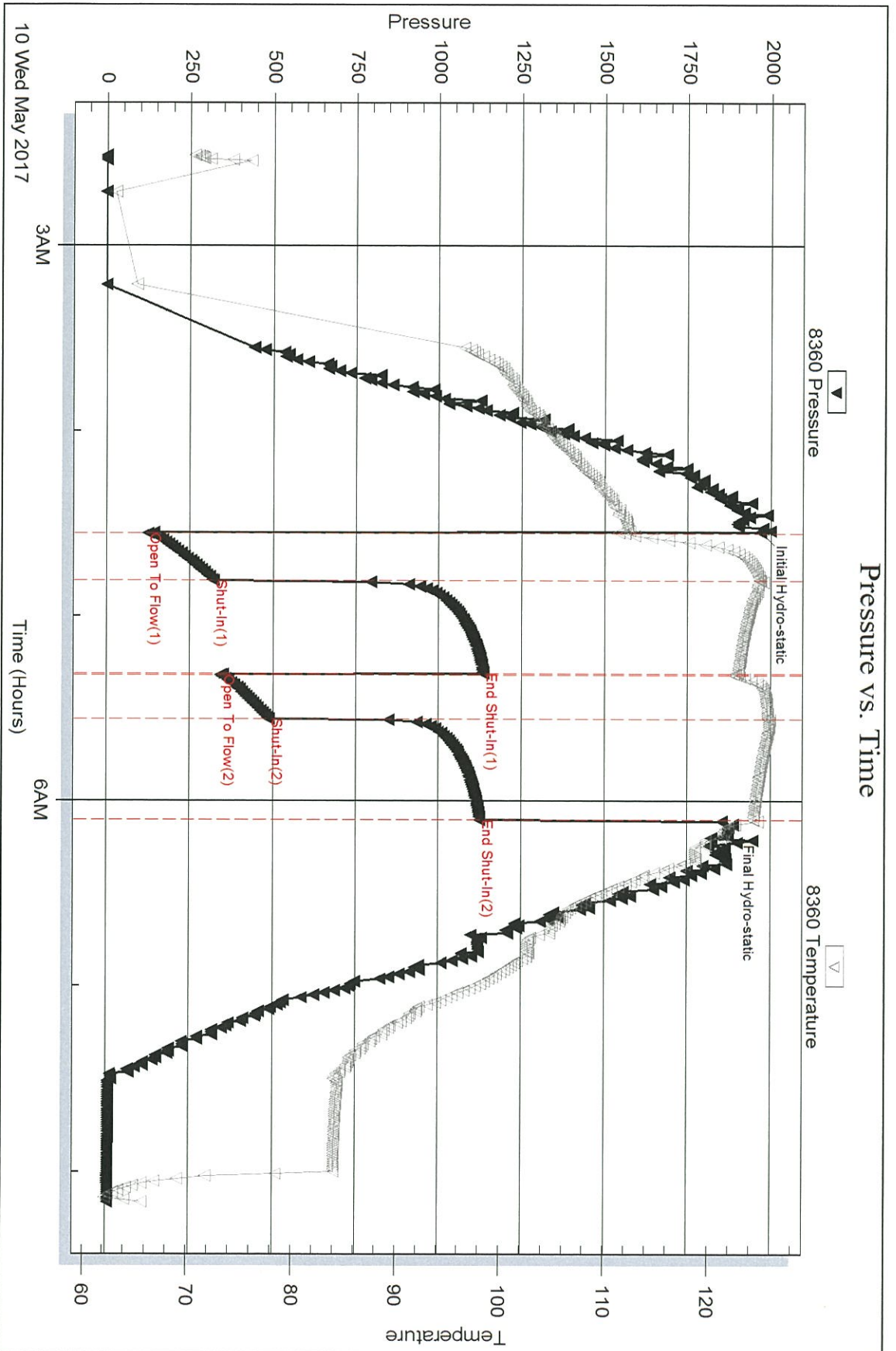
Serial #: 8360

Inside

Palomino Petroleum Inc

Cobra Rock #1

DST Test Number: 1



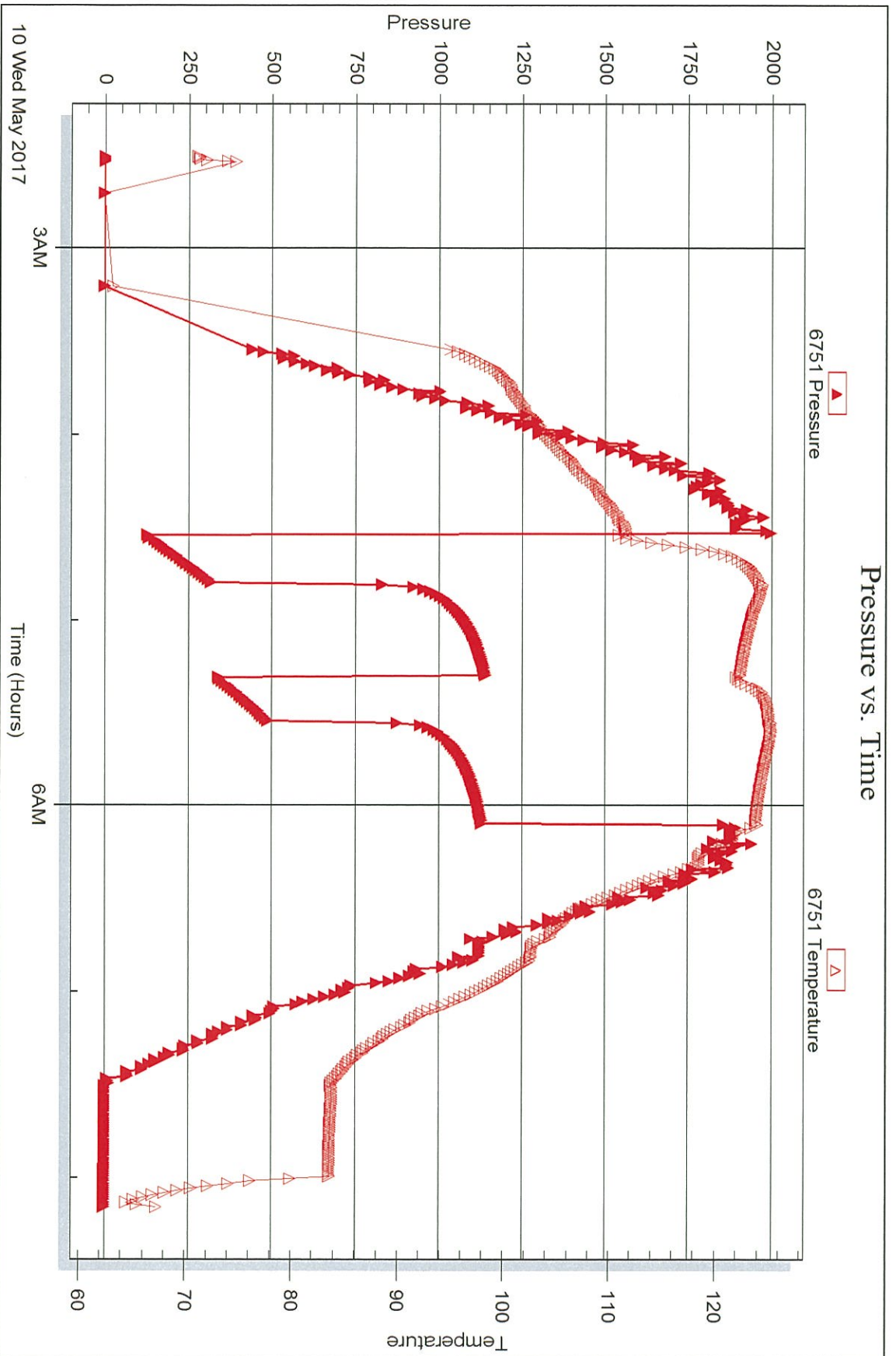
Serial #: 6751

Outside

Palomino Petroleum Inc

Cobra Rock #1

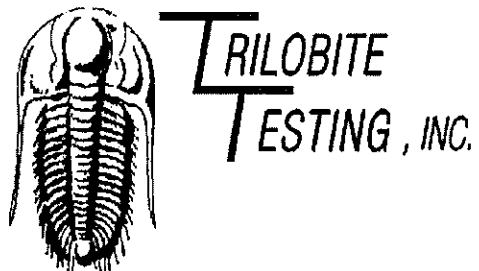
DST Test Number: 1



Triobite 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

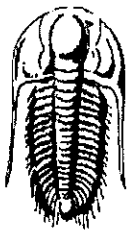
End Date: 2017.05.10 @ 19:53:33

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

Palomino Petroleum Inc 12-14s-26w Gove,KS Cobra Rock #1 DST # 2 LKC E-F 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: 64147 DST#: 2
 Test Start: 2017.05.10 @ 14:05:54

GENERAL INFORMATION:

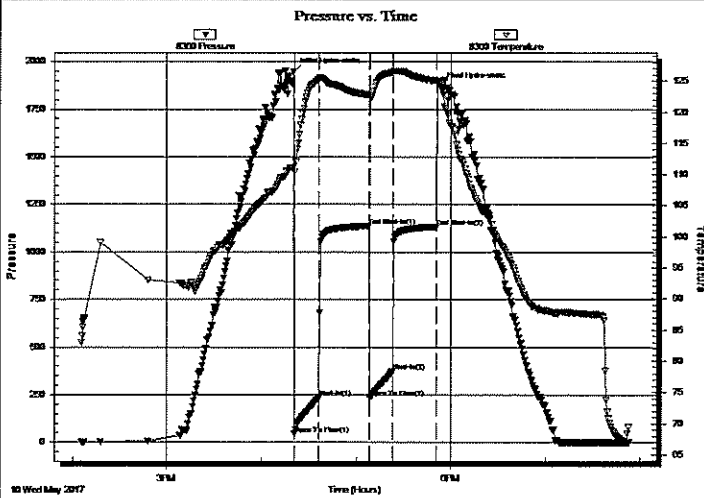
Formation: **LKC E-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:20:49
 Time Test Ended: 19:53:33
 Interval: **3908.00 ft (KB) To 3943.00 ft (KB) (TVD)**
 Total Depth: **3943.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 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: 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

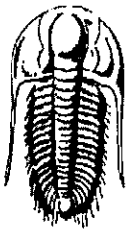
Recovery

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

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

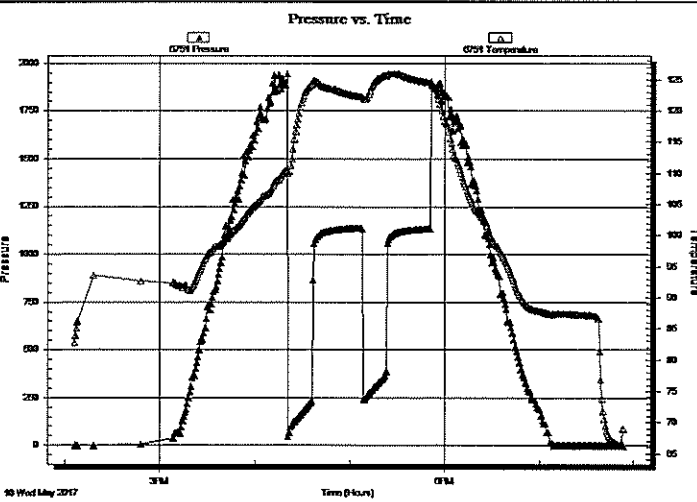
12-14s-26w Gove, KS
Cobra Rock #1
Job Ticket: 64147 DST#: 2
Test Start: 2017.05.10 @ 14:05:54

GENERAL INFORMATION:

Formation: **LKC E-F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:20:49
Time Test Ended: 19:53:33
Interval: **3908.00 ft (KB) To 3943.00 ft (KB) (TVD)**
Total Depth: 3943.00 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 #: 6751 Outside
Press@RunDepth: 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: 14:06:00 End Time: 19:53:39 Time On Btm:
Time Off Btm:

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

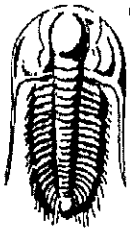
Recovery

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

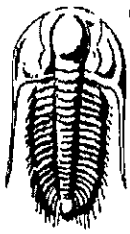
Tool Information

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 ³	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

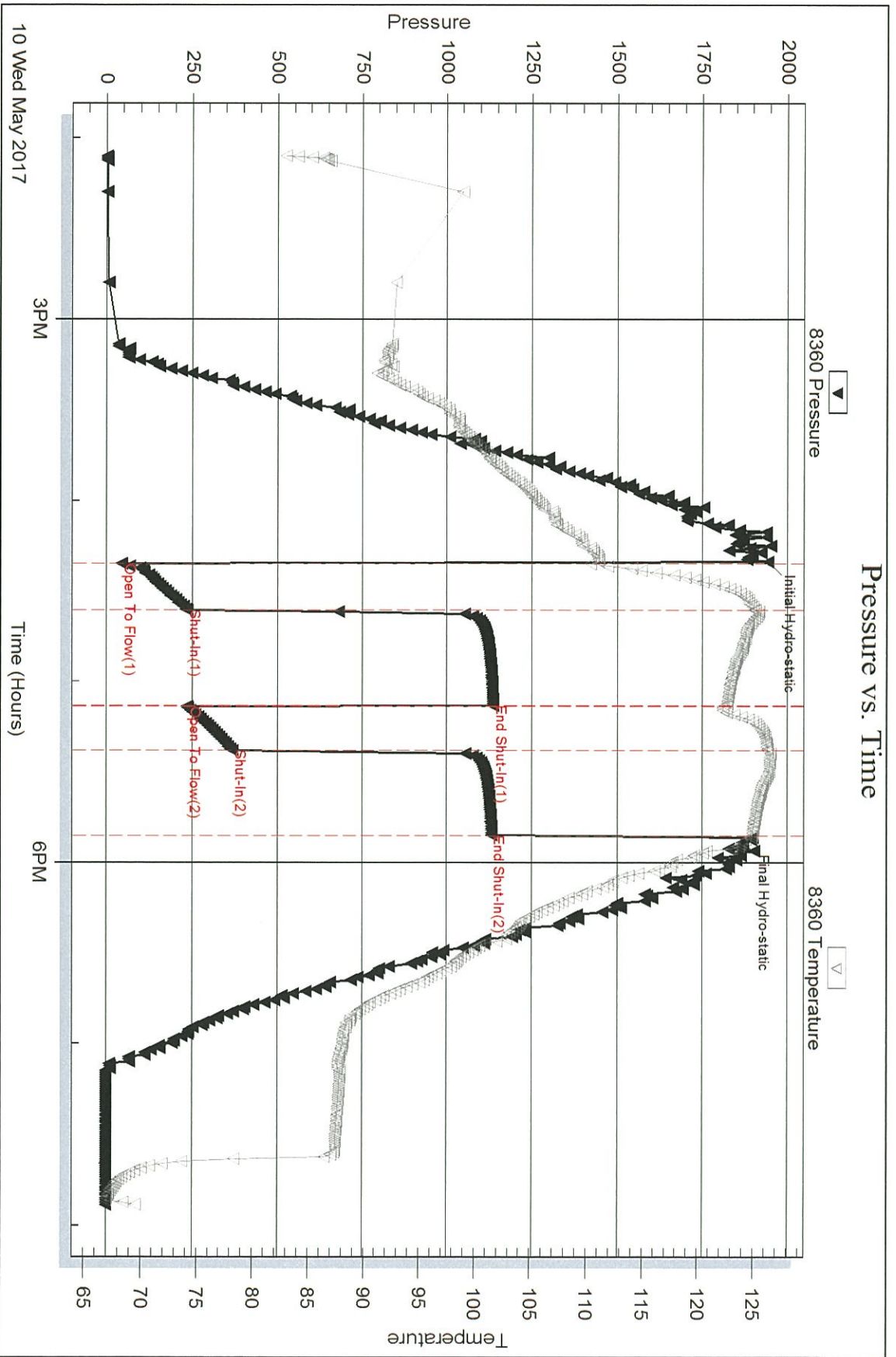
Inside

Palomino Petroleum Inc

Cobra Rock #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64147

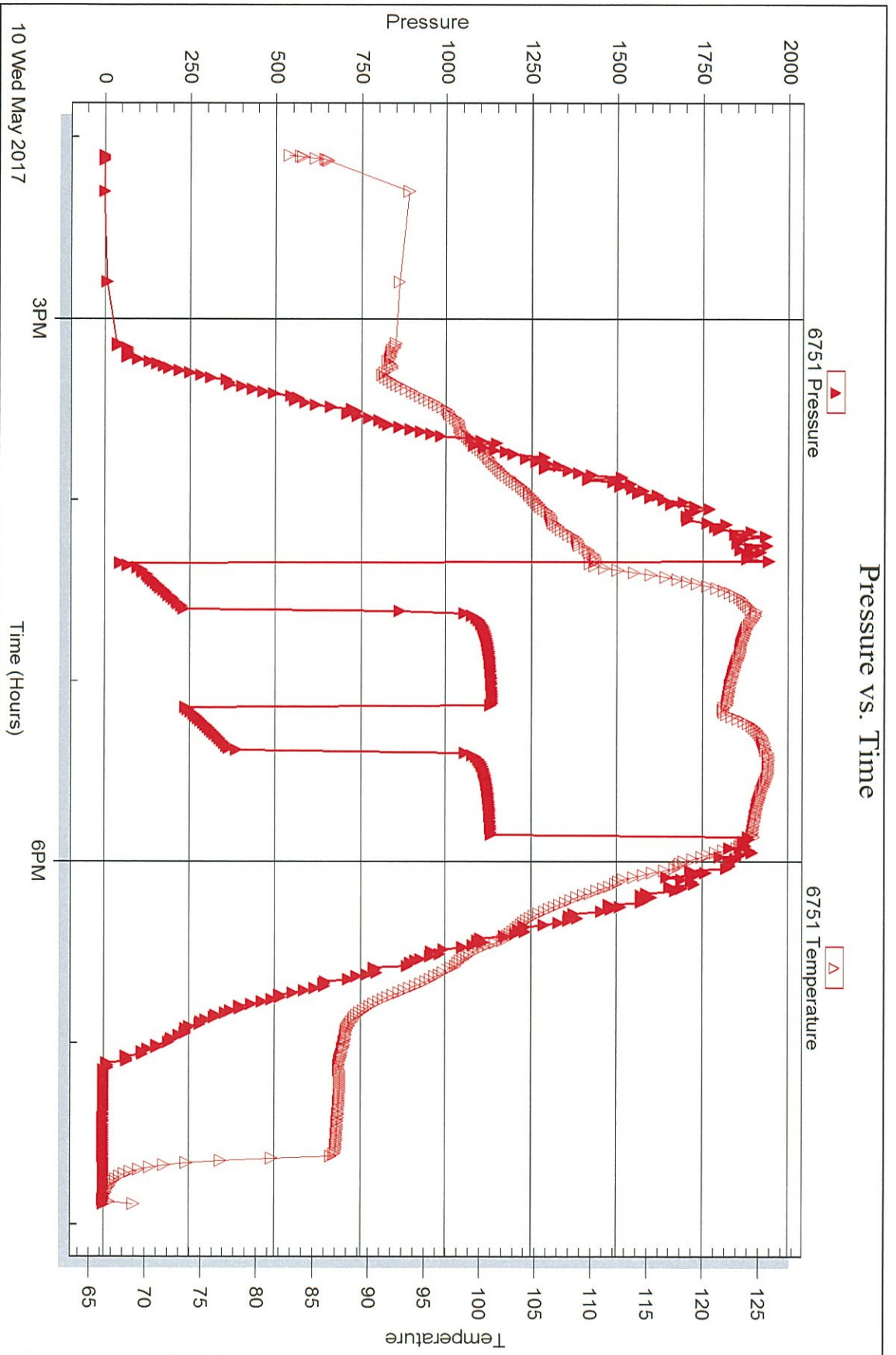
Printed: 2017.05.12 @ 14:41:30

Serial #: 6751

Outside Palomino Petroleum Inc

Cobra Rock #1

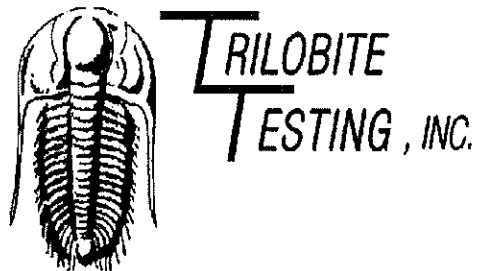
DST Test Number: 2



Tribble Testing, Inc

Ref. No: 64147

Printed: 2017.05.12 @ 14:41:30



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

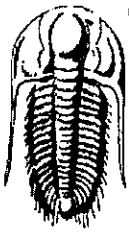
Start Date: 2017.05.11 @ 08:55:53

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
 Newton, 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

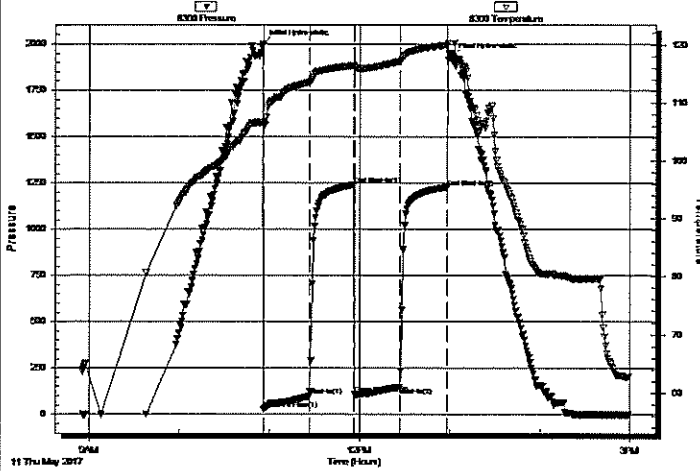
GENERAL INFORMATION:

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

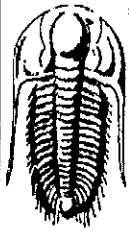
Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMO 10%G10%W20%M60%O	0.30
124.00	GMO 30%G5%W65%O	1.21
170.00	CO	2.38
0.00	820' GIP	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 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

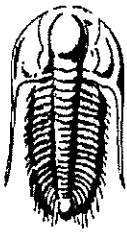
Tool Information

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 ³	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:

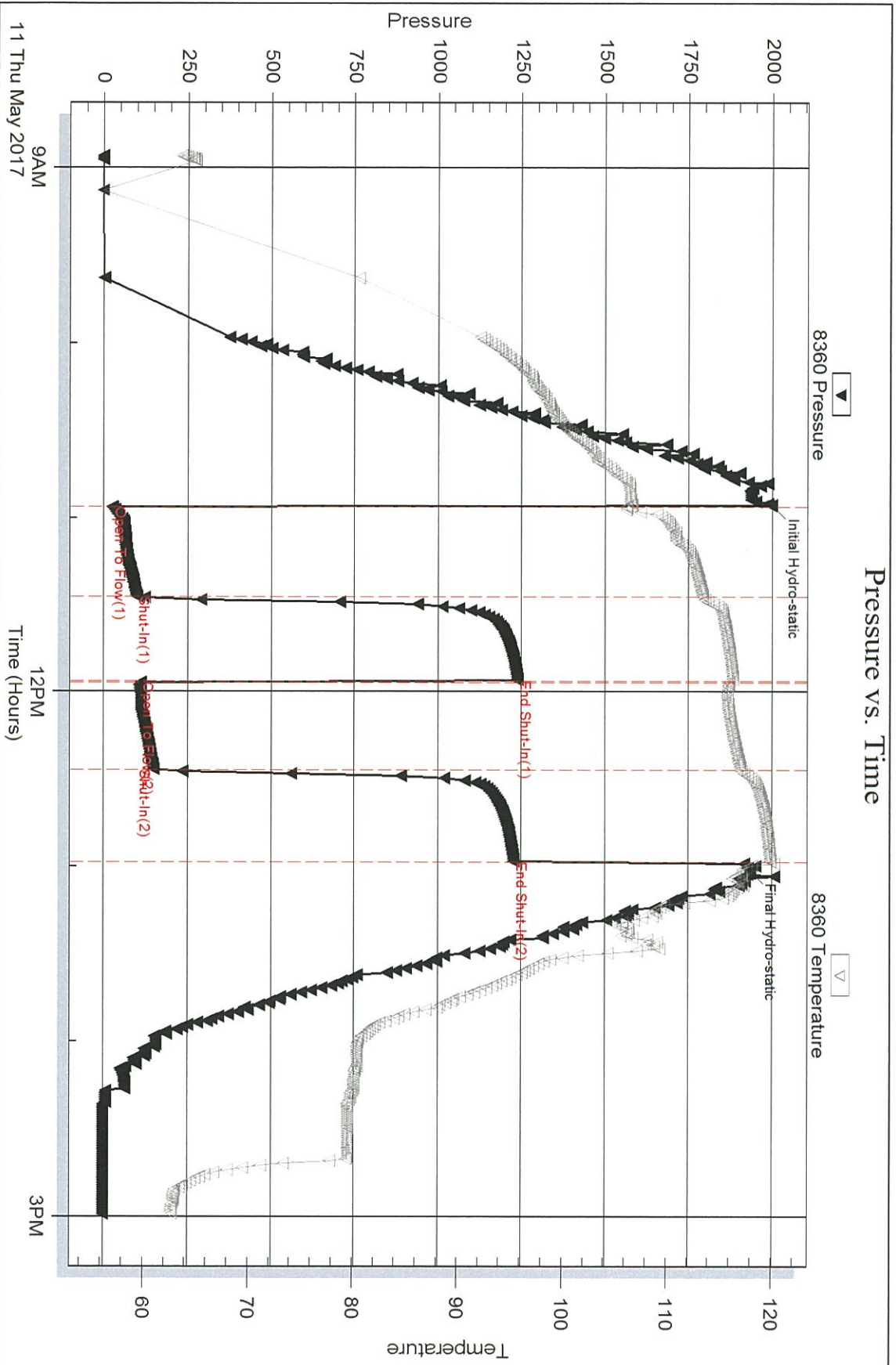
Serial #: 8360

Inside

Palorino Petroleum Inc

Cobra Rock #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64148

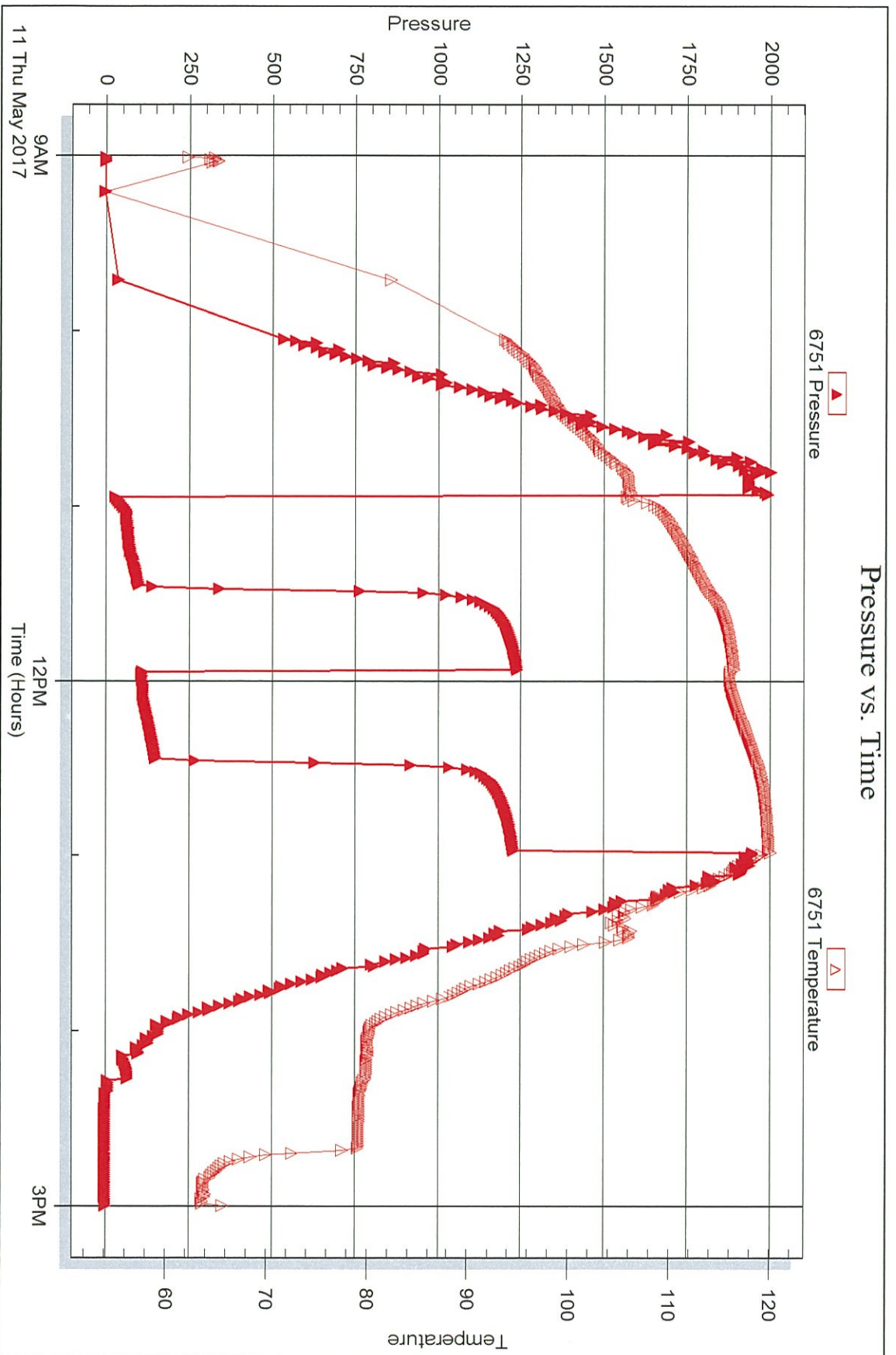
Printed: 2017.05.12 @ 14:35:55

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

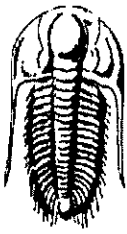
Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.05.12 @ 14:30:04

Palomino Petroleum Inc 12-14s-26w Gove,KS Cobra Rock #1 DST # 4 LKC J-K 2017.05.12



**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: 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

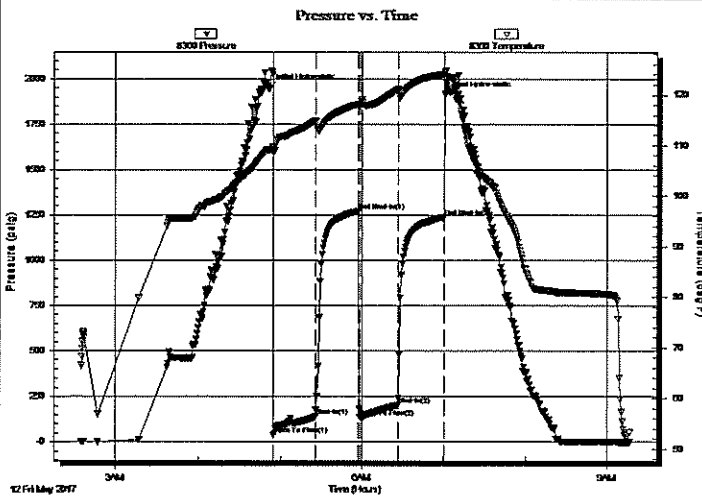
Interval: **4051.00 ft (KB) To 4098.00 ft (KB) (TVD)**
Total Depth: **4098.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair

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

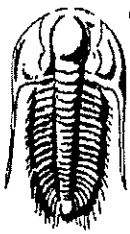
Recovery

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

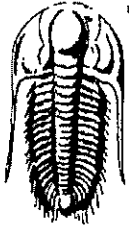
Tool Information

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 ³	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:

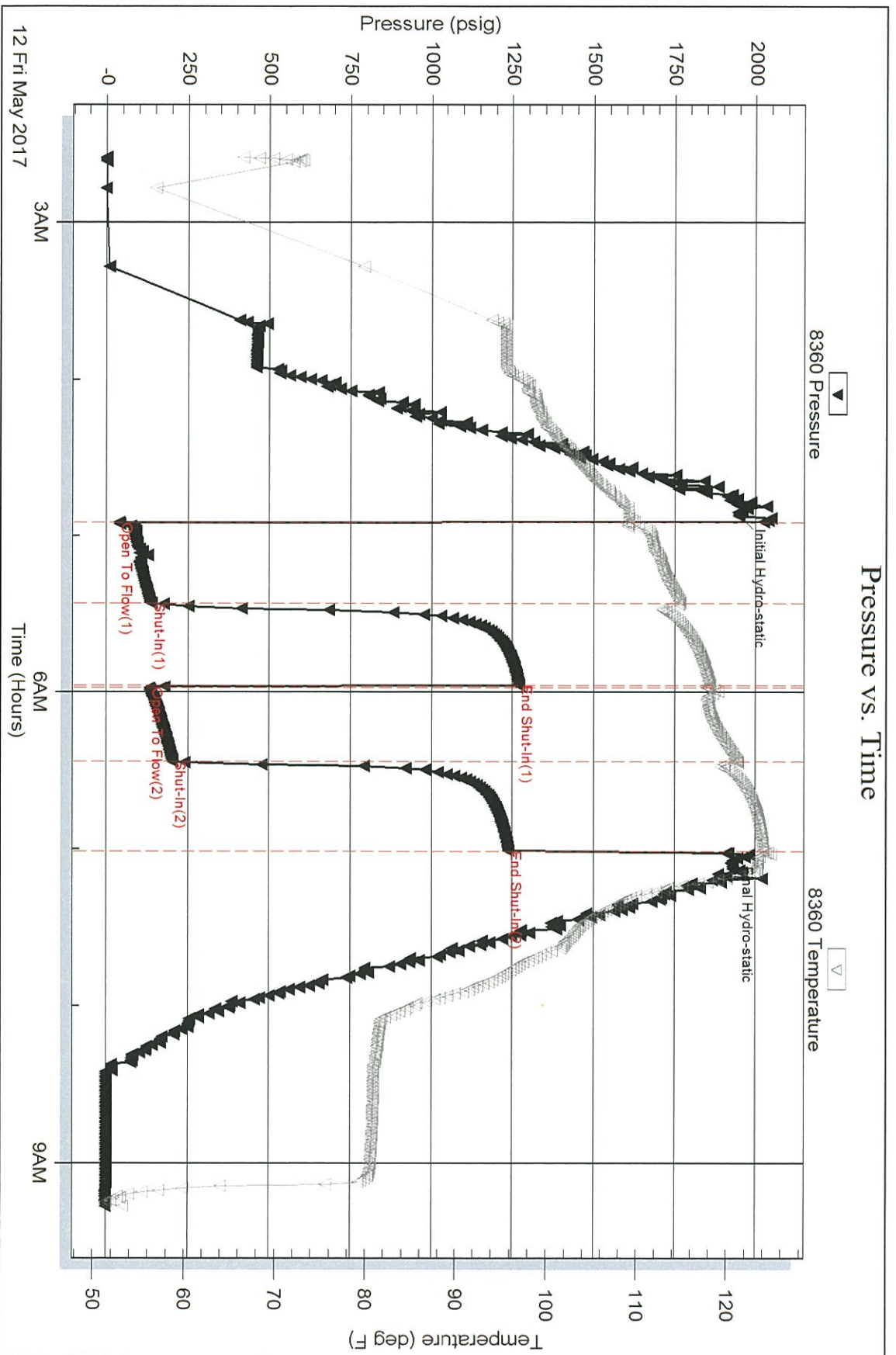
Serial #: 8360

Inside

Palomino Petroleum Inc

Cobra Rock #1

DST Test Number: 4

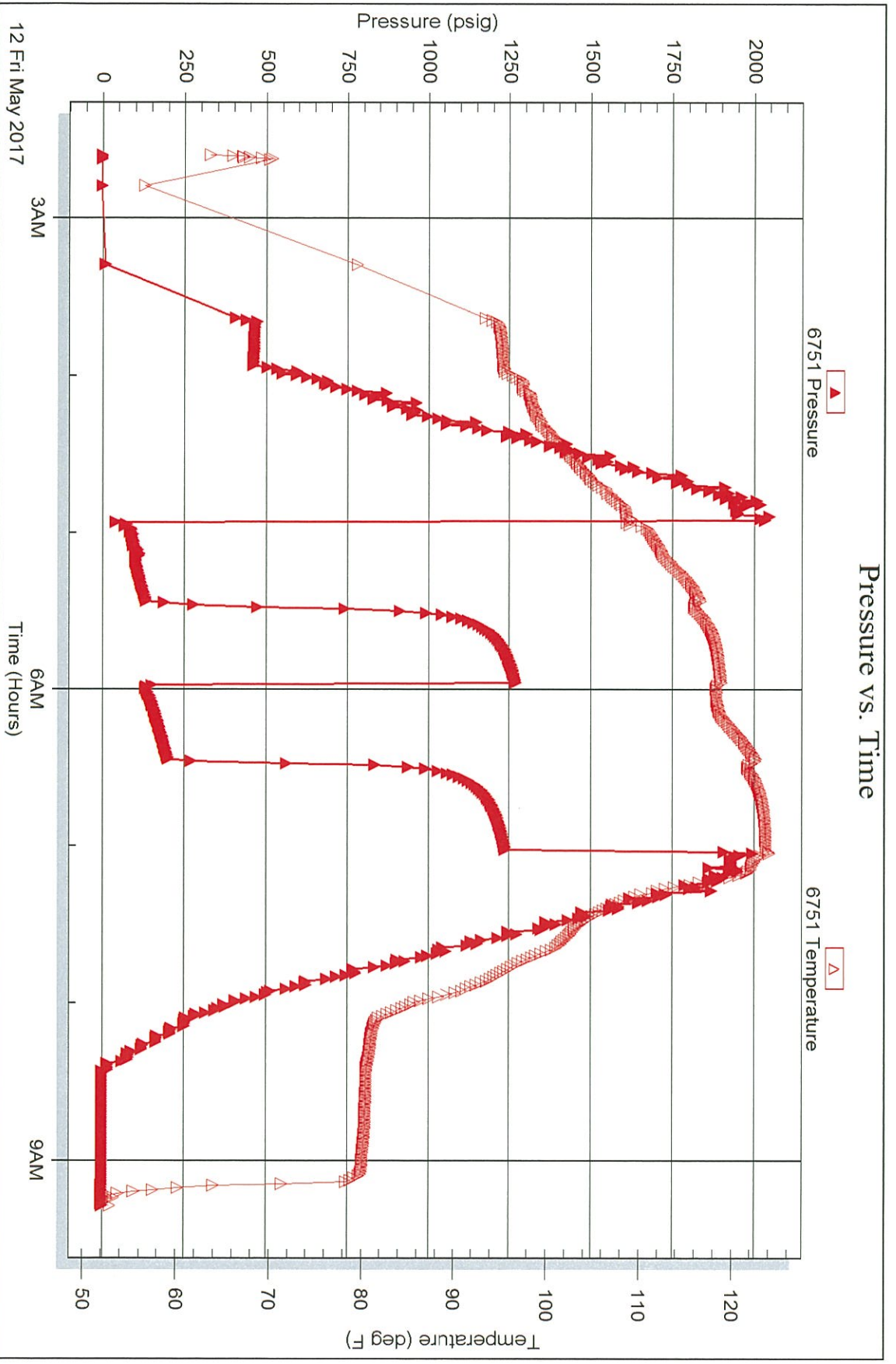


Serial #: 6751

Outside Palomino Petroleum Inc

Cobra Rock #1

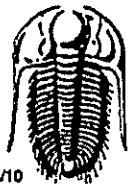
DST Test Number: 4



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 84th ST. Newton, Ko 67114-8827
 Co. Rep / Geo. Sean Deenihan Rig WWrig 12
 Location: Sec. 12 Twp. 14^s Rge. 26^w 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

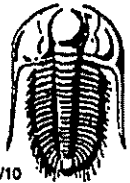
Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>MW w/showfall</u>			<u>80</u>	<u>20</u>
<u>810</u>	<u>WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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 ⁹⁶ 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 _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30
 Sub Total 1396
 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 84th ST. Newton, Ks 67114-8827
 Co. Rep / Geo. Sean Ocenihan Rig WW rig 12
 Location: Sec. 12 Twp. 14^s Rge. 26^w Co. Gove 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[#]

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>				

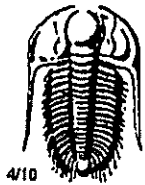
Rec Total 710 BHT 125 Gravity - API RW 67 @ 75 ° F Chlorides 100000 ppm

(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
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Packer	Sub Total <u>0</u>
	<input type="checkbox"/> Extra Recorder	Total <u>1396</u>
	<input type="checkbox"/> Day Standby	MP/DST Disc't
	<input type="checkbox"/> Accessibility	
	Sub Total <u>1396</u>	

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

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 84th ST. Newton, KS 67114-8827
 Co. Rep / Geo. Sean Deenihan Rig WW rig 12
 Location: Sec. 12 Twp. 14^s Rge. 26^w 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

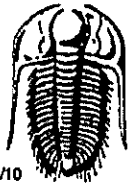
Rec	Feet of	%gas	%oil	%water	%mud
820	GTP				
170	CO				
124	GMO	30	65		5
62	GMO	10	60	10	20

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 84th ST Newton, KS 67114-8827
 Co. Rep / Geo. Sean Deenihan Rig WU rig 12
 Location: Sec. 12 Twp. 14^s Rge. 26^w Co. 60R 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>GIP</u>				
<u>320</u>	<u>CO</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 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 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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