



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1167242  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- 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
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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: \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1167242

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

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BVL 1
Doc ID	1167242

Tops

Name	Top	Datum
Anhy.	1854	( +644)
Base Anhy.	1885	( +613)
Heebner	3850	(-1352)
Lansing	3893	(-1395)
BKC	4189	(-1691)
Marmaton	4240	(-1742)
Pawnee	4315	(-1817)
Ft. Scott	4391	(-1893)
Cherokee Sh.	4419	(-1921)
Cherokee Sd.	4473	(-1975)
Miss.	4518	(-2020)
LTD	4597	(-2099)

RECEIVED

SEP 11 2013

## Invoice



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



DATE	INVOICE #
9/6/2013	25622

## 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	BVL	Ness	WW Drilling #10	Oil	Development	Cement 5-1/2" L...	David
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				20	Miles	6.00	120.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
400-5	5 1/2" Guide Shoe				1	Each	200.00	200.00T
401-5	5 1/2" Insert Float With Auto Fill				1	Each	160.00	160.00T
403-5	5 1/2" Cement Basket				2	Each	285.00	570.00T
409-5	5 1/2" Turbolizer				9	Each	90.00	810.00T
402-5	5 1/2" Centralizer				1	Each	70.00	70.00T
410-5	5 1/2" Top Plug				1	Each	100.00	100.00T
404-5	5 1/2" Port Collar				1	Each	2,650.00	2,650.00T
325	Standard Cement				100	Sacks	14.00	1,400.00T
284	Calseal				5	Sack(s)	35.00	175.00T
283	Salt				500	Lb(s)	0.20	100.00T
285	CFR-1				50	Lb(s)	4.00	200.00T
276	Flocele				50	Lb(s)	2.00	100.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	17.00	2,125.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
290	D-Air				3	Gallon(s)	42.00	126.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
582D	Minimum Drayage Charge				1	Each	250.00	250.00
	Subtotal							11,831.00
	Sales Tax Ness County						6.15%	584.93
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$12,415.93



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

TICKET 25622

PAGE 1 OF 1

1. SERVICE LOCATIONS: Ness City KS WELL/PROJECT NO.: #1 LEASE: BVL COUNTY/PARISH: Ness STATE: KS CITY: Ransom DATE: 9-6-13 OWNER: Same

2. TICKET TYPE:  SERVICE  SALES CONTRACTOR: WWD Drilling RIG NAME/NO.: #10 SHIPPED VIA: Location DELIVERED TO: Location ORDER NO.: \_\_\_\_\_

3. WELL TYPE: D-1 WELL CATEGORIES: Development JOB PURPOSE: Cement 5 1/2" 14' Longstring WELL PERMIT NO.: \_\_\_\_\_

4. REFERRAL LOCATION: \_\_\_\_\_ INVOICE INSTRUCTIONS: \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE			20	mi	6.00	120.00
578					Pump Charge	1	job			1500.00	1500.00
400					Guide Shoe	5 1/2	in	1	ea	200.00	200.00
401					Insert Fleet w/ Aulo Fill	5 1/2	in	1	ea	160.00	160.00
403					Cement Basket	5 1/2	in	2	ea	285.00	570.00
409					Turbolizer	5 1/2	in	1	ea	90.00	90.00
402					Centralizer	5 1/2	in	1	ea	70.00	70.00
410					Pop Plug	5 1/2	in	1	ea	100.00	100.00
404					Part Collar	5 1/2	in	1	ea	2650.00	2650.00

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

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

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

X: DATE SIGNED: 9-6-13 TIME SIGNED: 1200  P.M.

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	AMOUNT
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	60180.00
WE UNDERSTOOD AND MET YOUR NEEDS?				1	5851.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				1	11831.00
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				1	584.93
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	12,415.93

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: This customer hereby certifies that the materials and services listed on this ticket were received and are satisfactory.

SWIFT OPERATOR: David Kuhn APPROVAL: [Signature]

Thank You!



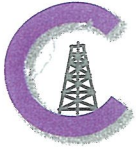
JOB LOG

SWIFT Services, Inc.

DATE 9-6-13 PAGE NO. 1

CUSTOMER Palomares Petroleum WELL NO. #1 LEASE BVL JOB TYPE Cement 5 1/2" 14" Longstring TICKET NO. 25622

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1130							On Location
								TD - 4597 TP - 4596 SJ - #1 42.10 P.C. - #66 1832' TurboLizer - #1" 2" 3" 4" 5" 6" 7" 8" 9" 65" Basket - #2" 66 5 1/2" 14"
								100 sks EA-2 w/ 1/4" Flo 125 sks SMD w/ 1/4" Flo
	1215							Start 5 1/2 14" casing in well
	1405							Drop Ball circulate
	1505	6 3/4	12		✓	350	Pump	500 gal Muel Flush
		6 3/4	20		✓	350	Pump	20 bbl HCL Flush
	1515		11					Plug RH (30 sks)
	1518	4 1/2	35		✓	200	mix	95 sks SMD @ 12.7 ppq
		4 1/2	24		✓	200	mix	100 sks EA-2 @ 15.5 ppq
	1533							wash out Pump + Lines Release Top Plug
	1537	6 3/4	0		✓	100	Start	Displacement
		6 3/4	46		✓	450	Lift	PSE
		6 3/4	110		✓	750	Max	Lift PSE
	1600	6 3/4	111.1		✓	1600	Land	Top Plug
	1603							Release Pressure - Hold -
	1605							wash up truck
								Thank You Dave Blaine Dusky Flint Dug



**CONSOLIDATED**  
Oil Well Services, LLC

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

RECEIVED

SEP 07 2013

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

INVOICE

Invoice # 261959

Invoice Date: 08/31/2013 Terms: 10/10/30,n/30 Page 1

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

BVL #1  
38102  
29-16S-24W  
08-31-2013  
KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	165.00	18.5500	3060.75
1102	CALCIUM CHLORIDE (50#)	465.00	.9400	437.10
1118B	PREMIUM GEL / BENTONITE	310.00	.2700	83.70

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-358.16
9995-130	CEMENT EQUIPMENT DISCOUNT	-176.37

Description	Hours	Unit Price	Total
463 CEMENT PUMP (SURFACE)	1.00	1150.00	1150.00
463 EQUIPMENT MILEAGE (ONE WAY)	35.00	5.25	183.75
693 MIN. BULK DELIVERY	1.00	430.00	430.00

Amount Due 5565.57 if paid after 09/30/2013

Parts:	3581.55	Freight:	.00	Tax:	198.24	AR	5009.01
Labor:	.00	Misc:	.00	Total:	5009.01		
Sublt:	-534.53	Supplies:	.00	Change:	.00		

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

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650





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

261959

TICKET NUMBER 38102  
LOCATION Oakley, KS  
FOREMAN Jerry Yates

FIELD TICKET & TREATMENT REPORT  
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-31-13	6285	BVL #1	29	165	24w	Ness
CUSTOMER			TRUCK #		DRIVER	
Palamino			463		Cory D	
MAILING ADDRESS			693		Jack J	
CITY			STATE		ZIP CODE	

Ransom  
4w 3/4s  
winto

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 218 CASING SIZE & WEIGHT 8 5/8 24#  
 CASING DEPTH 218 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 12.6 bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: soft meeting + rig up on well/break circulation w/ rig tree, hookup to truck and mix 165 sks com class A w/ 32 calcium chloride and 28 gal washup + displaced with 12.6 bbl fresh water and shot in. Cement did circulate approx 46bbl to pit

Cement did circulate Thank you  
Jerry & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150 <sup>00</sup>	1150 <sup>00</sup>
5406	3.5	MILEAGE	5.25	183 <sup>75</sup>
5407	7.8	ton mileage delivery (min)	1.15	430 <sup>00</sup>
1104s	165 sks	com class A	18.55	3060 <sup>75</sup>
1102	465 #	calcium chloride	.94	437 <sup>10</sup>
1118B	310 #	gel	.27	83 <sup>70</sup>
Subtotal				5345 <sup>30</sup>
less 10% disc				534 <sup>53</sup>
Subtotal				4810 <sup>72</sup>
SALES TAX				198.24
ESTIMATED TOTAL				5009.01

**completed**

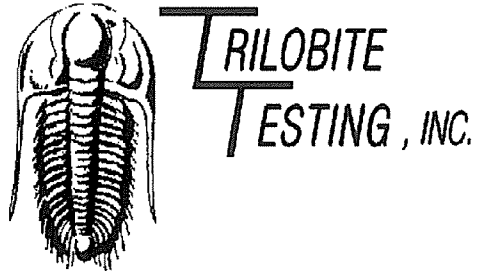
Revin 3737

AUTHORIZATION

TITLE T.P.

DATE 8-31-13

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



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

**BVL #1**

**29-16s-24w Ness,KS**

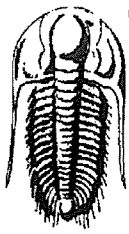
Start Date: 2013.09.04 @ 22:51:09

End Date: 2013.09.05 @ 07:06:29

Job Ticket #: 54395                      DST #: 1

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

Printed: 2013.09.06 @ 11:14:42



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

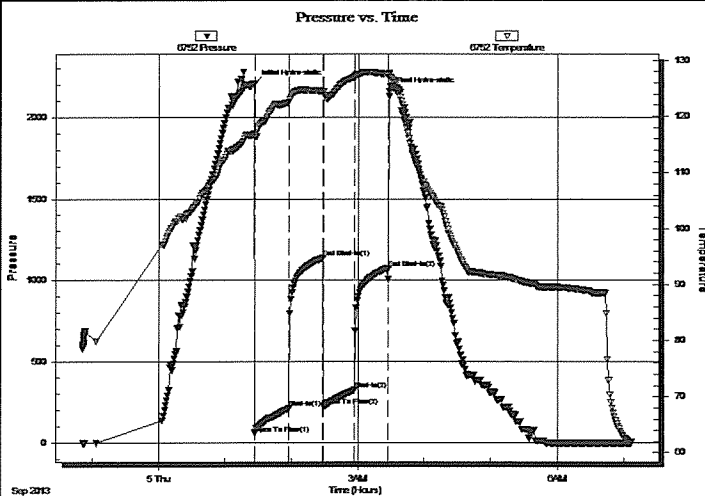
**29-16s-24w Ness,KS**  
**BVL #1**  
Job Ticket: 54395      **DST#: 1**  
Test Start: 2013.09.04 @ 22:51:09

## GENERAL INFORMATION:

Formation: **Cherokee Sd**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 01:26:39      Test Type: Conventional Bottom Hole (Initial)  
 Time Test Ended: 07:06:29      Tester: Tate Lang / Bob Hame  
 Unit No: 41  
 Interval: **4460.00 ft (KB) To 4513.00 ft (KB) (TVD)**      Reference Elevations: 2498.00 ft (KB)  
 Total Depth: 4513.00 ft (KB) (TVD)      2493.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Good      KB to GR/CF: 5.00 ft

**Serial #: 6752      Inside**  
 Press@RunDepth: 324.18 psig @ 4463.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.09.04      End Date: 2013.09.05      Last Calib.: 2013.09.05  
 Start Time: 22:51:10      End Time: 07:06:29      Time On Btm: 2013.09.05 @ 01:26:09  
 Time Off Btm: 2013.09.05 @ 03:27:59

**TEST COMMENT:** BOB in 6 1/2 min  
 Weak surface blow back built to 2 1/2 in.  
 BOB in 9 min.  
 Weak surface blow back built to 1 1/2 in.



## PRESSURE SUMMARY

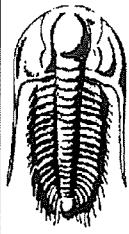
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.35	116.82	Initial Hydro-static
1	55.96	116.43	Open To Flow (1)
32	213.52	122.57	Shut-In(1)
62	1134.98	124.51	End Shut-In(1)
63	224.41	124.25	Open To Flow (2)
91	324.18	127.02	Shut-In(2)
122	1073.03	127.42	End Shut-In(2)
122	2157.68	127.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	15 % G 80 % O 5% M	0.59
300.00	40% G 40 %O 20% M	4.17
120.00	30% G 50% O 20%M	1.68
240.00	10%G 90%O	3.37
0.00	360 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

**29-16s-24w Ness,KS**  
**BVL #1**  
Job Ticket: 54395      **DST#: 1**  
Test Start: 2013.09.04 @ 22:51:09

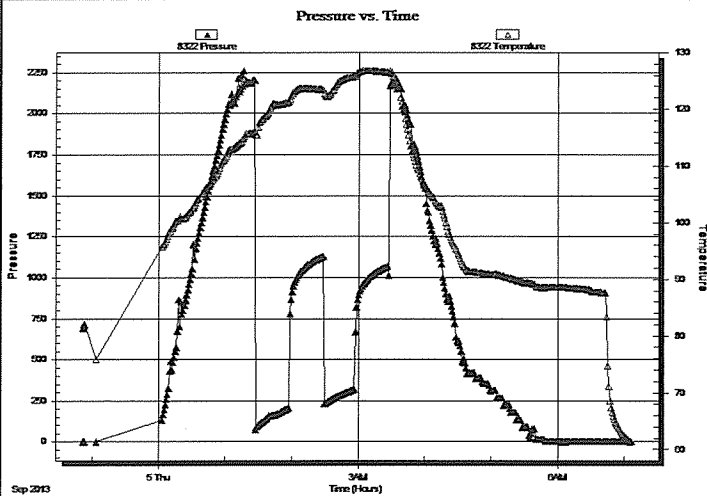
**GENERAL INFORMATION:**

Formation: **Cherokee Sd**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:26:39  
 Time Test Ended: 07:06:29  
 Interval: **4460.00 ft (KB) To 4513.00 ft (KB) (TVD)**  
 Total Depth: 4513.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Tate Lang / Bob Hame  
 Unit No: 41  
 Reference Elevations: 2498.00 ft (KB)  
 2493.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8322      Outside**  
 Press@RunDepth: psig @ 4463.00 ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2013.09.04      End Date: 2013.09.05      Last Calib.: 2013.09.05  
 Start Time: 22:51:07      End Time: 07:06:26      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** BOB in 6 1/2 min  
 Weak surface blow back built to 2 1/2 in.  
 BOB in 9 min.  
 Weak surface blow back built to 1 1/2 in.



**PRESSURE SUMMARY**

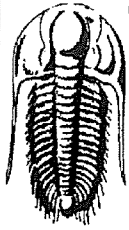
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	15 % G 80 % O 5% M	0.59
300.00	40% G 40 %O 20% M	4.17
120.00	30% G 50% O 20%M	1.68
240.00	10%G 90%O	3.37
0.00	360 GIP	0.00

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum  
4924 SE 84th St.  
Newton, KS 67114  
ATTN: Ryan Seib

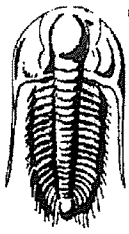
**29-16s-24w Ness,KS**  
**BVL #1**  
Job Ticket: 54395      **DST#: 1**  
Test Start: 2013.09.04 @ 22:51:09

### Tool Information

Drill Pipe:	Length: 4329.00 ft	Diameter: 3.80 inches	Volume: 60.72 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4460.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	80.00 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			4434.00	
Shut In Tool	5.00			4439.00	
Hydraulic tool	5.00			4444.00	
Jars	5.00			4449.00	
Safety Joint	2.00			4451.00	
Packer	5.00			4456.00	27.00      Bottom Of Top Packer
Packer	4.00			4460.00	
Stubb	1.00			4461.00	
Perforations	1.00			4462.00	
Change Over Sub	1.00			4463.00	
Recorder	0.00	6752	Inside	4463.00	
Recorder	0.00	8322	Outside	4463.00	
Drill Pipe	31.00			4494.00	
Change Over Sub	1.00			4495.00	
perforations	15.00			4510.00	
Bullnose	3.00			4513.00	53.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>80.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum  
4924 SE 84th St.  
Newton, KS 67114  
ATTN: Ryan Seib

**29-16s-24w Ness,KS**  
**BVL #1**  
Job Ticket: 54395      **DST#: 1**  
Test Start: 2013.09.04 @ 22:51:09

## Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	37 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	7.99 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3800.00 ppm				
Filter Cake:	1.00 inches				

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	15 % G 80 % O 5% M	0.590
300.00	40% G 40 %O 20% M	4.172
120.00	30% G 50% O 20%M	1.683
240.00	10%G 90%O	3.367
0.00	360 GIP	0.000

Total Length: 780.00 ft      Total Volume: 9.812 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 6752

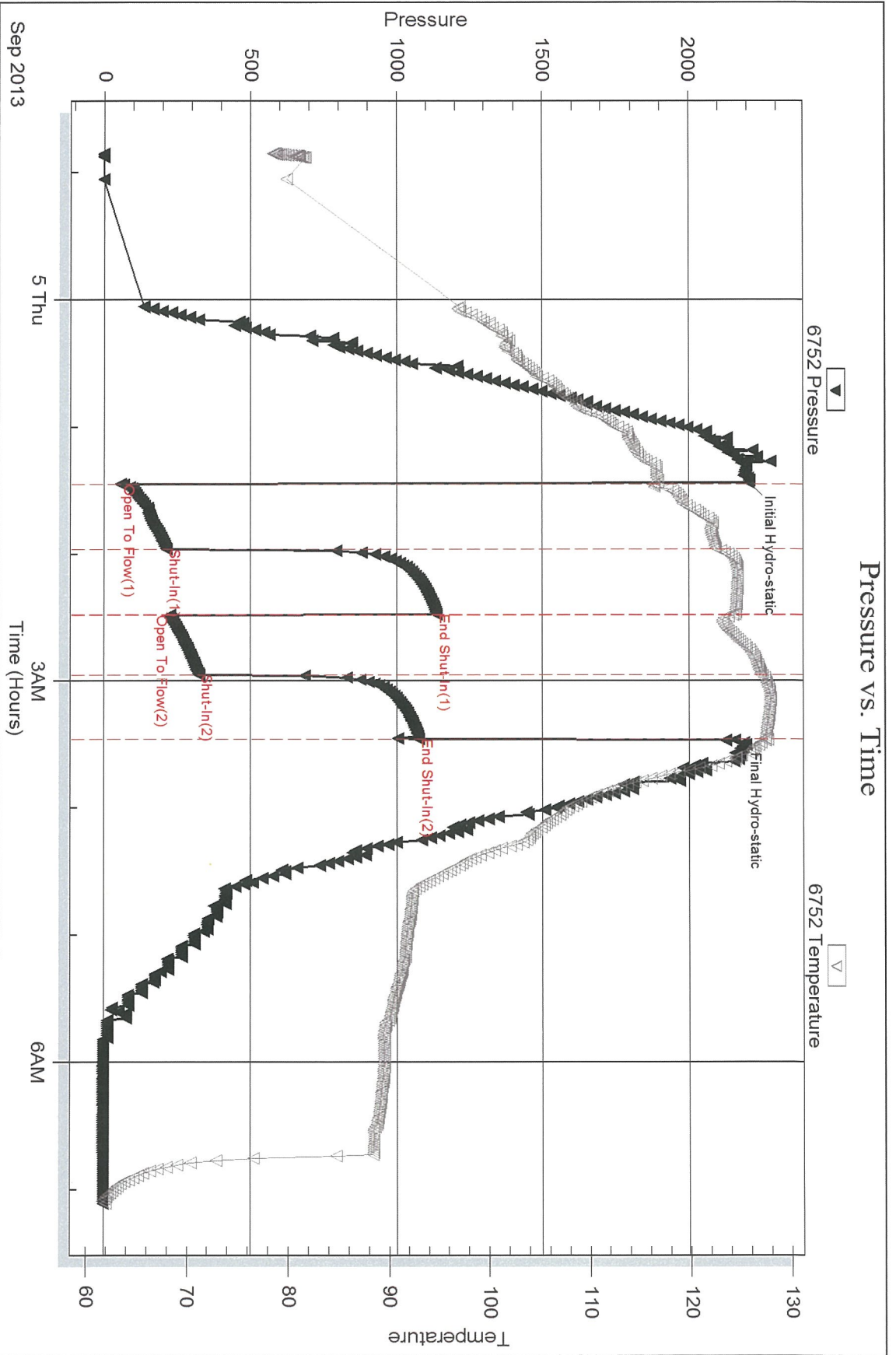
Inside

Palomino Petroleum

BVL #1

DST Test Number: 1

### Pressure vs. Time



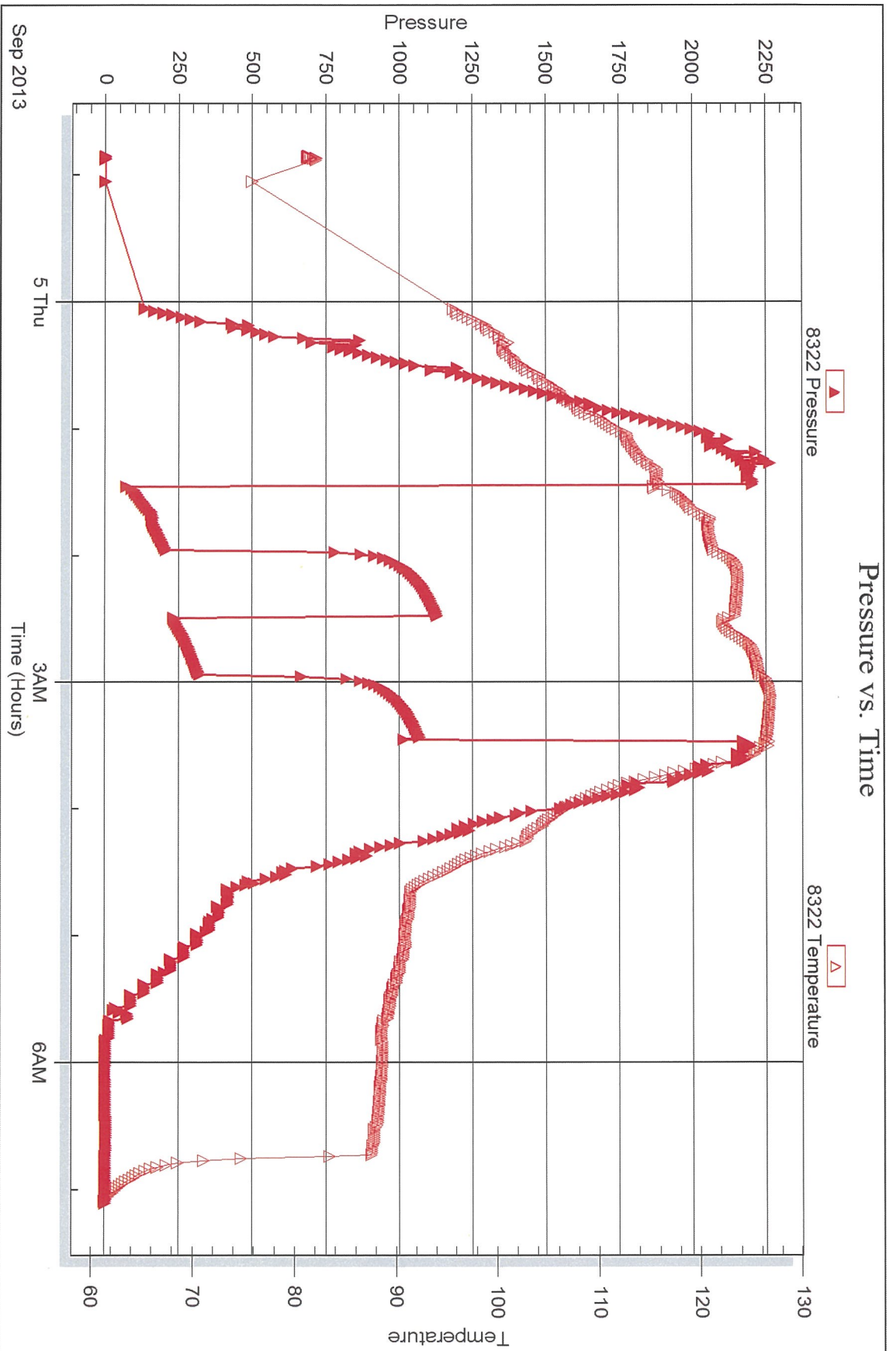
Serial #: 8322

Outside

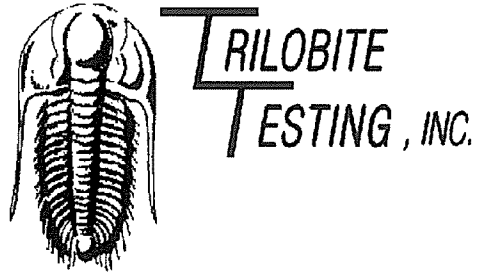
Palomino Petroleum

BVL #1

DST Test Number: 1







## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.  
Newton, KS 67114

ATTN: Ryan Seib

**BVL #1**

**29-16s-24w Ness,KS**

Start Date: 2013.09.05 @ 13:50:42

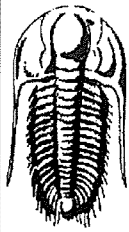
End Date: 2013.09.05 @ 18:46:51

Job Ticket #: 54396                      DST #: 2

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

Printed: 2013.09.06 @ 11:14:14

Palomino Petroleum  
29-16s-24w Ness,KS  
BVL #1  
DST # 2  
Cherokee Sand  
2013.09.05



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

**29-16s-24w Ness,KS**

**BVL #1**

Job Ticket: 54396

**DST#: 2**

Test Start: 2013.09.05 @ 13:50:42

### GENERAL INFORMATION:

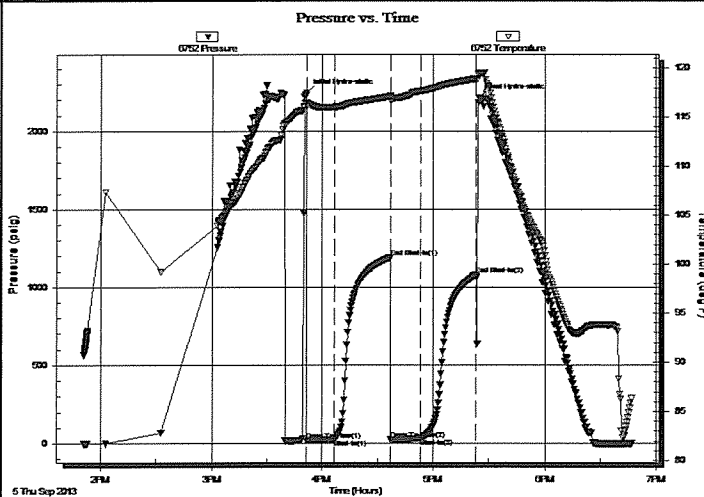
Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:51:32  
 Time Test Ended: 18:46:51  
 Interval: **4522.00 ft (KB) To 4533.00 ft (KB) (TVD)**  
 Total Depth: 4533.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang / Bob Hame  
 Unit No: 41  
 Reference Elevations: 2498.00 ft (KB)  
 2493.00 ft (CF)  
 KB to GR/CF: 5.00 ft

### Serial #: 6752

Inside

Press@RunDepth: 30.51 psig @ 4523.00 ft (KB)  
 Start Date: 2013.09.05 End Date: 2013.09.05  
 Start Time: 13:50:43 End Time: 18:46:52  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.09.05  
 Time On Btm: 2013.09.05 @ 15:51:22  
 Time Off Btm: 2013.09.05 @ 17:24:42

**TEST COMMENT:** Open tool no intinal surge. Reset packers weak surface blow  
 Dead no blow back  
 Dead no blow  
 Dead no blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.32	116.50	Initial Hydro-static
1	19.22	116.05	Open To Flow (1)
16	24.15	116.03	Shut-In(1)
46	1190.15	117.11	End Shut-In(1)
46	26.70	116.64	Open To Flow (2)
62	30.51	117.65	Shut-In(2)
92	1079.35	118.93	End Shut-In(2)
94	2216.41	119.53	Final Hydro-static

### Recovery

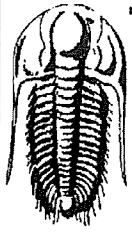
Length (ft)	Description	Volume (bbl)
2.00	80 % oil 20% mud	0.01
8.00	5% oil 95% mud	0.04

\* 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  
4924 SE 84th St.  
New ton, KS 67114  
ATTN: Ryan Seib

**29-16s-24w Ness,KS**  
**BVL #1**  
Job Ticket: 54396      **DST#: 2**  
Test Start: 2013.09.05 @ 13:50:42

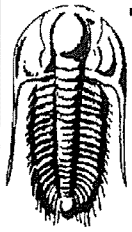
### Tool Information

Drill Pipe:	Length: 4391.00 ft	Diameter: 3.80 inches	Volume: 61.59 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 62.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4522.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	38.00 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			4496.00	
Shut In Tool	5.00			4501.00	
Hydraulic tool	5.00			4506.00	
Jars	5.00			4511.00	
Safety Joint	2.00			4513.00	
Packer	5.00			4518.00	27.00      Bottom Of Top Packer
Packer	4.00			4522.00	
Stubb	1.00			4523.00	
Recorder	0.00	6752	Inside	4523.00	
Recorder	0.00	8322	Outside	4523.00	
Perforations	7.00			4530.00	
Bullnose	3.00			4533.00	11.00      Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**29-16s-24w Ness,KS**  
**BVL #1**  
Job Ticket: 54396      **DST#: 2**  
Test Start: 2013.09.05 @ 13:50:42

## 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:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4200.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	80 % oil 20% mud	0.010
8.00	5% oil 95% mud	0.039

Total Length: 10.00 ft      Total Volume: 0.049 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 6752

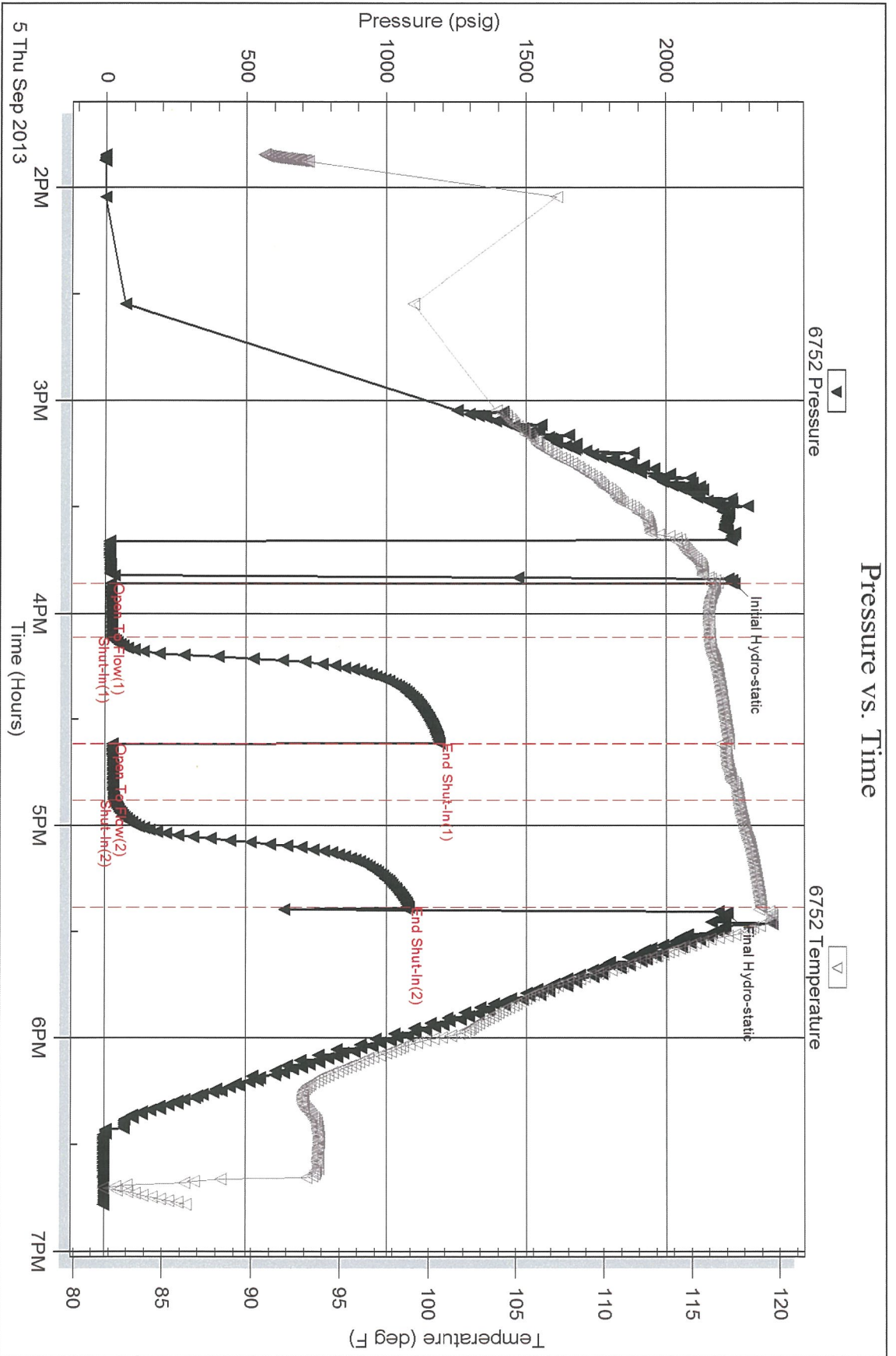
Inside

Palomino Petroleum

BVL #1

DST Test Number: 2

### Pressure vs. Time



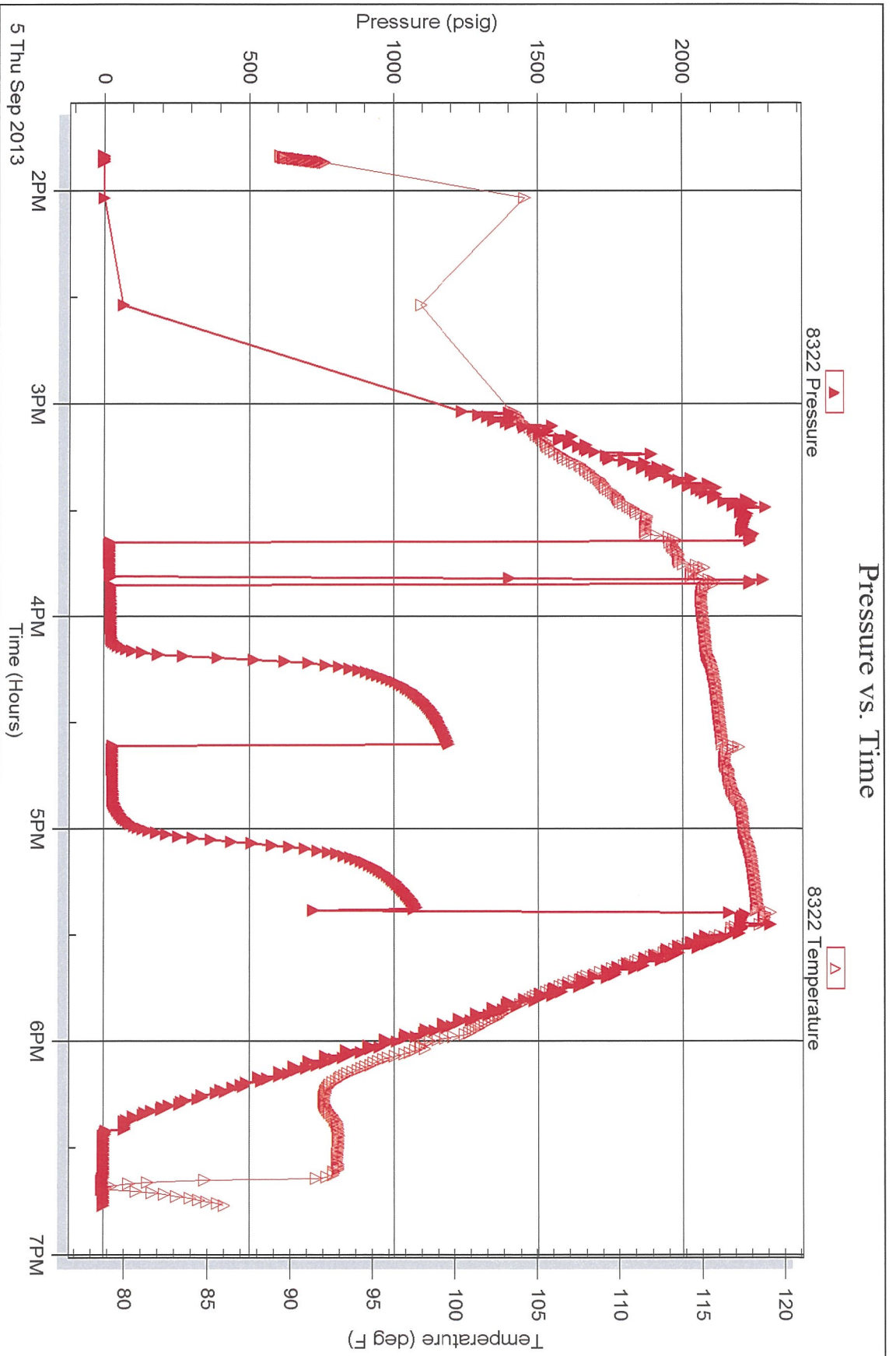
Serial #: 8322

Outside

Palomino Petroleum

BVL #1

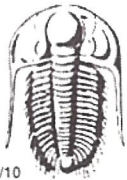
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54396

Printed: 2013.09.06 @ 11:14:15



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54395

Well Name & No. BVL #1 Test No. 1 Date 9/4/13  
 Company Pubmin Petroleum Elevation 2498 KB 2493 GL  
 Address 4924 SE 84th St Newton KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW Rig #10  
 Location: Sec. 29 Twp. 16S Rge. 24W Co. NESS State KS

Interval Tested 4460 4513 Zone Tested Cherokee Sd.  
 Anchor Length 531 Drill Pipe Run 4329 Mud Wt. 9.4  
 Top Packer Depth 4456 Drill Collars Run 124 Vis 51  
 Bottom Packer Depth 4460 Wt. Pipe Run 0 WL 810  
 Total Depth 4513 Chlorides 3880 ppm System LCM 1#

Blow Description B.O.B. In 6 1/2 min.  
Weak surface blow back built to 2 1/2 in.  
B.O.B. In 9 min.  
Weak surface blow back built to 1 1/2 in.

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>360' G.P.</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>240'</u>	<u>MC G.O.</u>	<u>10</u>	<u>90</u>	<u>0</u>	<u>0</u>
<u>120'</u>	<u>MC G.O.</u>	<u>30</u>	<u>50</u>	<u>0</u>	<u>20</u>
<u>300'</u>	<u>MC G.O.</u>	<u>40</u>	<u>40</u>	<u>0</u>	<u>20</u>
<u>120'</u>	<u>SMC G.O.</u>	<u>15</u>	<u>80</u>	<u>0</u>	<u>5</u>

Rec Total 780' BHT 127 Gravity 37 API RW 37 @ 60 ° F Chlorides 3880 ppm

(A) Initial Hydrostatic 2,207  Test 1250 T-On Location 21:10  
 (B) First Initial Flow 56  Jars 250 T-Started 22:51  
 (C) First Final Flow 214  Safety Joint 75 T-Open 01:27  
 (D) Initial Shut-In 4,135  Circ Sub T-Pulled 03:27  
 (E) Second Initial Flow 224  Hourly Standby T-Out 07:06  
 (F) Second Final Flow 324  Mileage 130 R/T 201.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 4,073  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,158  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_

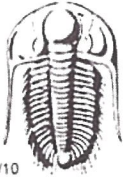
Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Sub Total 0  
 Total 2026.50  
 MP/DST Disc't \_\_\_\_\_

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

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 54396

Well Name & No. BVL #1 Test No. 2 Date 9/5/13  
 Company Palomino petroleum Elevation 2,498 KB 2,493 GL  
 Address 4924 SE 84th St. Newton KS. 67114  
 Co. Rep / Geo. Ryan Seib Rig WW Rig #10  
 Location: Sec. 29 Twp. 16S Rge. 24W Co. NESS State KS.

Interval Tested 4,522 - 4,533 Zone Tested Cherokee SAND  
 Anchor Length 11 Drill Pipe Run 4,391 Mud Wt. 9.3  
 Top Packer Depth 4,518 Drill Collars Run 124 Vis 60  
 Bottom Packer Depth 4,522 Wt. Pipe Run — WL 8.0  
 Total Depth 4,533 Chlorides 4,200 ppm System LCM 1

Blow Description open tool no initial Blow. Reset packers weak surface blow  
Dead no blow back  
Dead no blow  
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
2'	MCO		80	20	
8'	SOCM		5	95	
10'	total Fluid Recovery				

Rec Total 10' BHT 119° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2,244  Test 1250 T-On Location 13:45:00  
 (B) First Initial Flow 19  Jars 250 T-Started 13:50  
 (C) First Final Flow 24  Safety Joint 75 T-Open 15:50  
 (D) Initial Shut-In 1,190  Circ Sub \_\_\_\_\_ T-Pulled 17:20  
 (E) Second Initial Flow 27  Hourly Standby \_\_\_\_\_ T-Out 18:44  
 (F) Second Final Flow 31  Mileage 130 X2 403 Comments Loaded tools  
 (G) Final Shut-In 1,029  Sampler \_\_\_\_\_ 9/6/13  
 (H) Final Hydrostatic 2,216  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30  
 Sub Total 2228  
 Total 2228  
 MP/DST Disc't \_\_\_\_\_

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

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.