

**CONSOLIDATED**  
Oil Well Services, LLC

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

RECEIVED

DEC 11 2013

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

INVOICE

Invoice # 264590

Invoice Date: 12/09/2013 Terms: 0/0/30,n/30

Page 1

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

COCTISE-SIOUX #1  
43760  
31-21-4E  
12-03-2013  
KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	125.00	15.7000	1962.50
1102	CALCIUM CHLORIDE (50#)	400.00	.7800	312.00
1118B	PREMIUM GEL / BENTONITE	250.00	.2200	55.00
1107	FLO-SEAL (25#)	50.00	2.4700	123.50

Description	Hours	Unit Price	Total
502 MIN. BULK DELIVERY	1.00	368.00	368.00
603 CEMENT PUMP (SURFACE)	1.00	870.00	870.00
603 EQUIPMENT MILEAGE (ONE WAY)	30.00	4.20	126.00

Parts: 2453.00 Freight: .00 Tax: 187.66 AR 4004.66  
Labor: .00 Misc: .00 Total: 4004.66  
Sublt: .00 Supplies: .00 Change: .00

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



**CONSOLIDATED**  
Oil Well Services, LLC

264590

TICKET NUMBER 43760

LOCATION 180

FOREMAN Larry Storm

Box 884, Chanute, KS 66720  
20-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

CEMENT API-15-115-21467-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-3-13	6285	Cochise - Spoux #1	31	21	4E	McPherson

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Palomino Petro Inc	603	Jeremy H		
	502	Dustin D		
	725	Larry		

MAILING ADDRESS	CITY	STATE	ZIP CODE
4934 SE 8th St	Newton	Ks	67114

JOB TYPE	HOLE SIZE	HOLE DEPTH	CASING SIZE & WEIGHT
Surface B	12 1/4	225	8 5/8

CASING DEPTH	DRILL PIPE	TUBING	OTHER
223			

CURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING
14.5	30.19	6.85	25 ft.

DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE
14.06	200	0	5.0 bbls

REMARKS: Run 5 bbls water - Break Open Interval - MILED 125 sks A  
-3% CaCl2 + 2% BrO + 5 lb Poly - Displaced Cement with 1234 bbls  
Prepacked Cement on SURFACE.

1000 Returns

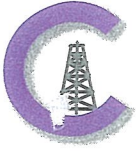
ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
401 S	1	PUMP CHARGE	870.00	870.00 ✓
5406	30	MILEAGE	4.00	126.00 ✓
11045	125	sks A	15.70	1962.50 ✓
1102	400	lbs CaCl2	.78	312.00 ✓
1118 B	250	lbs Gel	.22	55.00 ✓
1107	50	lbs Poly-Flakes	2.47	123.50 ✓
5407	1	Bulk Depoerly M&W	368.00	368.00 ✓
<b>Subtotal</b>				<b>3817.00</b>
			7.65	SALES TAX
				ESTIMATED
				TOTAL
				4004.66 ✓

**SCANNED**

AUTHORIZATION Cotton TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.





**CONSOLIDATED**  
Oil Well Services, LLC

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

RECEIVED

DEC 14 2012

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

INVOICE

Invoice # 264672

Invoice Date: 12/11/2013 Terms: 0/0/30,n/30

Page 1

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

COCHISE-SIOUX #1  
43790  
31-21-4  
12-10-2013  
KS

Part Number	Description	Qty	Unit Price	Total
1131	60/40 POZ MIX	120.00	13.1800	1581.60
1118B	PREMIUM GEL / BENTONITE	403.00	.2200	88.66

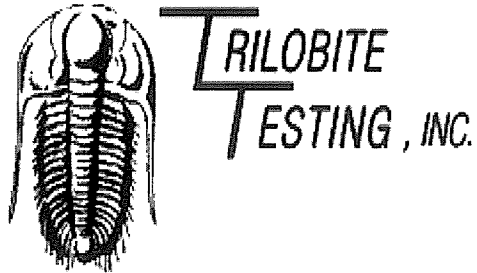
Description	Hours	Unit Price	Total
467 P & A NEW WELL	1.00	1085.00	1085.00
467 EQUIPMENT MILEAGE (ONE WAY)	29.00	4.20	121.80
667 MIN. BULK DELIVERY	1.00	368.00	368.00

Parts:	1670.26	Freight:	.00	Tax:	127.77	AR	3372.83
Labor:	.00	Misc:	.00	Total:	3372.83		
Sublt:	.00	Supplies:	.00	Change:	.00		

KS  
4044

Signed \_\_\_\_\_





## DRILL STEM TEST REPORT

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

4924 SE 84th St  
Newton KS 67114

ATTN: Jerry Smith

### **Cochise-Sioux #1**

#### **31-21s-4e Marion,KS**

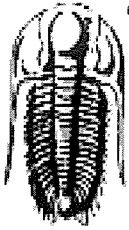
Start Date: 2013.12.06 @ 11:55:00

End Date: 2013.12.06 @ 19:24:15

Job Ticket #: 55481                      DST #: 1

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

Printed: 2013.12.11 @ 09:58:33



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petro., Inc.  
4924 SE 84th St  
New ton KS 67114  
ATTN: Jerry Smith

**31-21s-4e Marion,KS**  
**Cochise-Sioux #1**  
Job Ticket: 55481      **DST#: 1**  
Test Start: 2013.12.06 @ 11:55:00

## GENERAL INFORMATION:

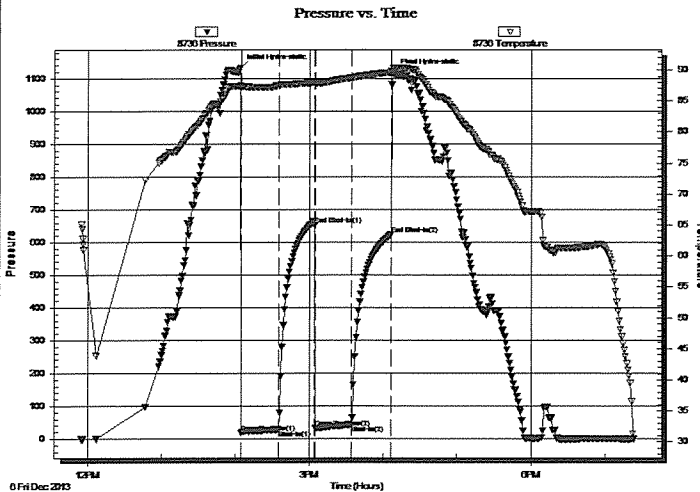
Formation: **Mississippian**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 14:04:30  
 Time Test Ended: 19:24:15  
 Interval: **2295.00 ft (KB) To 2340.00 ft (KB) (TVD)**  
 Total Depth: 2340.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 1346.00 ft (KB)  
 1340.00 ft (CF)  
 KB to GR/CF: 6.00 ft

## Serial #: 8736

Outside

Press@RunDepth: 41.99 psig @ 2296.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.12.06      End Date: 2013.12.06      Last Calib.: 2013.12.06  
 Start Time: 11:55:05      End Time: 19:24:14      Time On Btm: 2013.12.06 @ 14:04:00  
 Time Off Btm: 2013.12.06 @ 16:08:30

TEST COMMENT: IF-2" blow  
 IS-No blow  
 FF-very weak surface blow  
 FS-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1132.13	87.51	Initial Hydro-static
1	17.41	87.20	Open To Flow (1)
31	28.11	87.51	Shut-In(1)
61	653.70	88.01	End Shut-In(1)
62	32.40	87.84	Open To Flow (2)
91	41.99	88.72	Shut-In(2)
123	623.27	89.62	End Shut-In(2)
125	1116.63	90.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	VSOCM 5%O 95%M	0.22

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petro., Inc.

**31-21s-4e Marion,KS**

4924 SE 84th St  
New ton KS 67114

**Cochise-Sioux #1**

Job Ticket: 55481

**DST#: 1**

ATTN: Jerry Smith

Test Start: 2013.12.06 @ 11:55:00

### Tool Information

Drill Pipe:	Length: 2111.00 ft	Diameter: 3.34 inches	Volume: 22.88 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 35000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 35000.00 lb
Depth to Top Packer:	2295.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

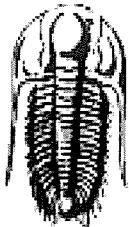
Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2268.00	
Shut In Tool	5.00			2273.00	
Hydraulic tool	5.00			2278.00	
Jars	5.00			2283.00	
Safety Joint	2.00			2285.00	
Packer	5.00			2290.00	28.00 Bottom Of Top Packer
Packer	5.00			2295.00	
Stubb	1.00			2296.00	
Recorder	0.00	6753	Inside	2296.00	
Recorder	0.00	8736	Outside	2296.00	
Perforations	8.00			2304.00	
Change Over Sub	1.00			2305.00	
Drill Pipe	31.00			2336.00	
Change Over Sub	1.00			2337.00	
Bullnose	3.00			2340.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petro., Inc.

**31-21s-4e Marion, KS**

4924 SE 84th St  
New ton KS 67114

**Cochise-Sioux #1**

Job Ticket: 55481

DST#: 1

ATTN: Jerry Smith

Test Start: 2013.12.06 @ 11:55:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil APt:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 42.00 sec/qt

Cushion Volume: bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 1700.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	VSOCM 5%O 95%M	0.221

Total Length: 45.00 ft      Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8736

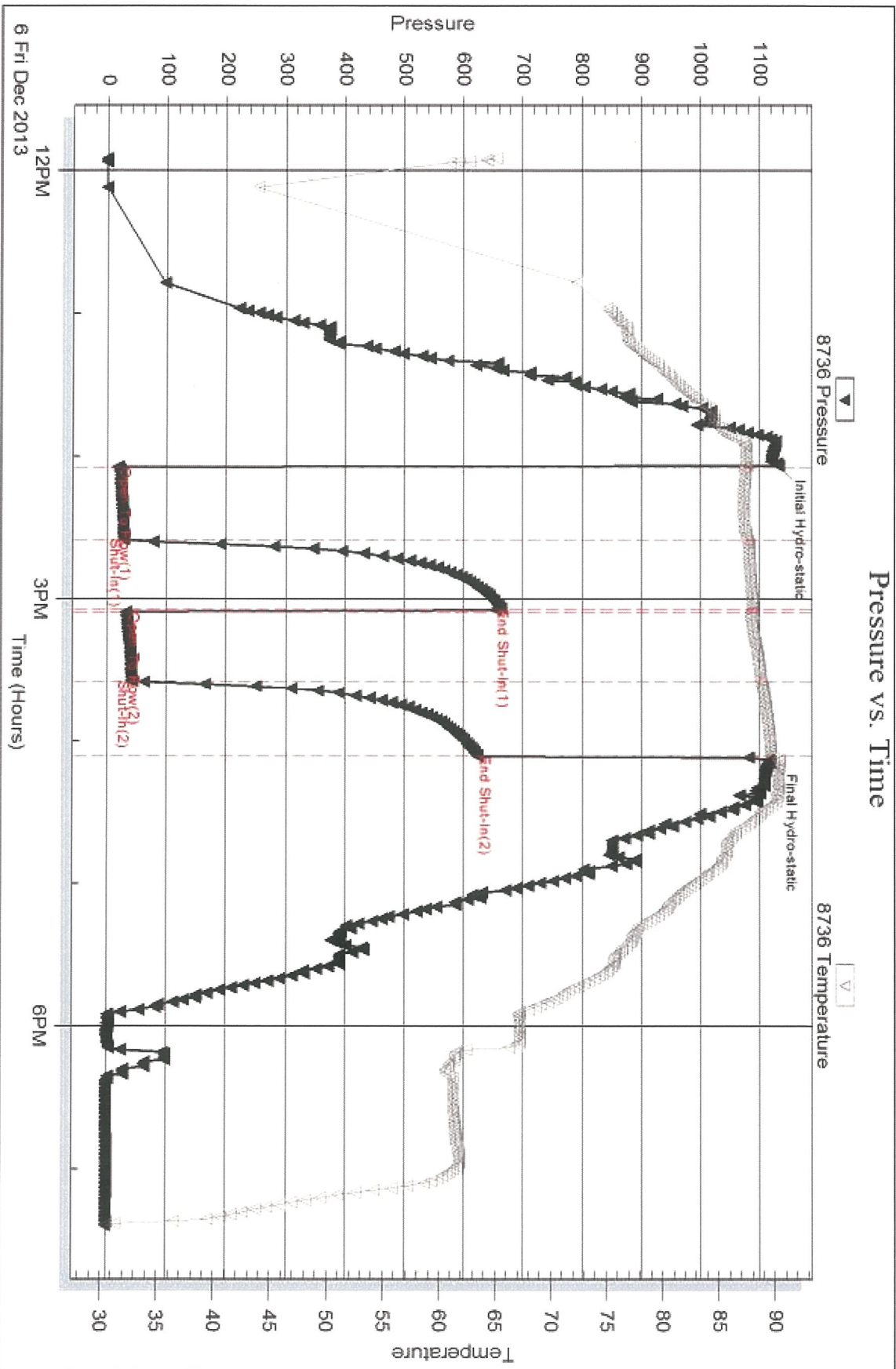
Outside

Palomino Petro., Inc.

Cochise-Stoux #1

DST Test Number: 1

### Pressure vs. Time



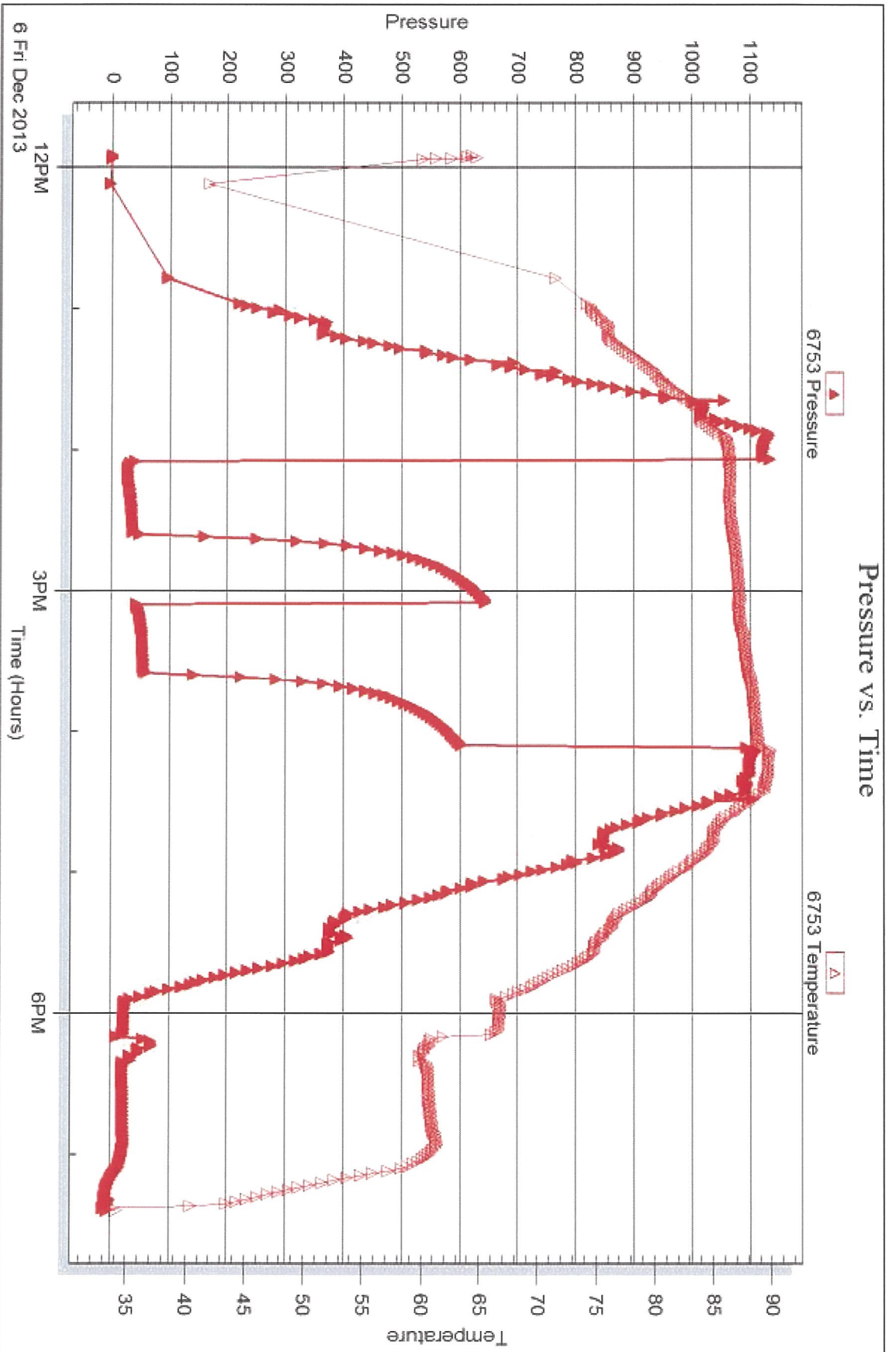
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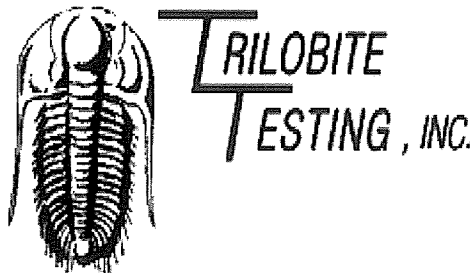
Inside

Palomino Petro., Inc.

Cochise-Stoux #1

DST Test Number: 1





## DRILL STEM TEST REPORT

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

4924 SE 84th St  
Newton KS 67114

ATTN: Jerry Smith

### **Cochise-Sioux #1**

### **31-21s-4e Marion,KS**

Start Date: 2013.12.07 @ 18:05:00

End Date: 2013.12.08 @ 03:05:00

Job Ticket #: 55482                      DST #: 2

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

Printed: 2013.12.11 @ 09:58:02





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petro., Inc.

**31-21s-4e Marion,KS**

4924 SE 84th St  
New ton KS 67114

**Cochise-Sioux #1**

Job Ticket: 55482

**DST#: 2**

ATTN: Jerry Smith

Test Start: 2013.12.07 @ 18:05:00

## GENERAL INFORMATION:

Formation: **Hunton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:49:45

Time Test Ended: 03:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: **2460.00 ft (KB) To 2503.00 ft (KB) (TVD)**

Total Depth: 2503.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1346.00 ft (KB)

1340.00 ft (CF)

KB to GR/CF: 6.00 ft

**Serial #: 8736 Outside**

Press@RunDepth: 930.64 psig @ 2461.00 ft (KB)

Start Date: 2013.12.07

End Date:

2013.12.08

Start Time: 18:05:05

End Time:

03:05:00

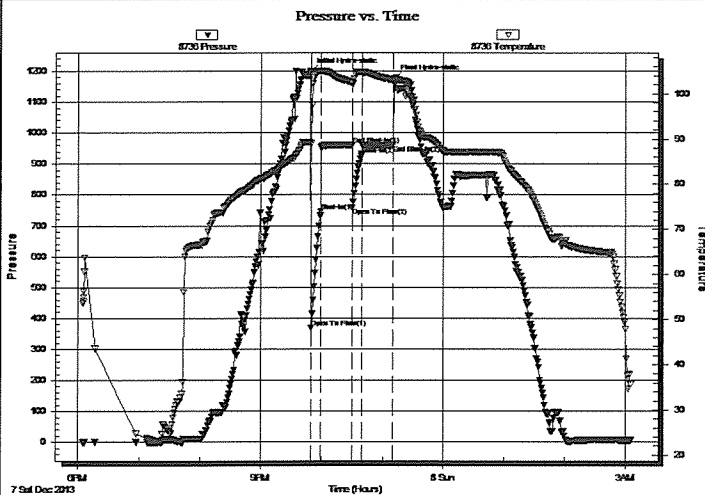
Capacity: 8000.00 psig

Last Calib.: 2013.12.08

Time On Btm: 2013.12.07 @ 21:49:15

Time Off Btm: 2013.12.07 @ 23:11:15

TEST COMMENT: IF-BOB in 15 sec  
IS-No blow  
FF-BOB in 15 sec  
FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1197.60	89.08	Initial Hydro-static
1	367.97	88.98	Open To Flow (1)
10	745.72	105.01	Shut-In(1)
41	961.00	102.42	End Shut-In(1)
41	758.44	102.28	Open To Flow (2)
50	930.64	104.73	Shut-In(2)
81	961.23	103.04	End Shut-In(2)
82	1174.15	102.48	Final Hydro-static

## Recovery

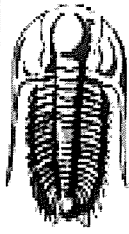
Length (ft)	Description	Volume (bbl)
1800.00	Water	18.45
330.00	MW	3.58

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petro., Inc.

**31-21s-4e Marion,KS**

4924 SE 84th St  
New ton KS 67114

**Cochise-Sioux #1**

Job Ticket: 55482

**DST#: 2**

ATTN: Jerry Smith

Test Start: 2013.12.07 @ 18:05:00

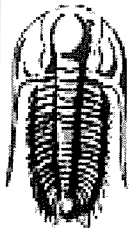
### Tool Information

Drill Pipe:	Length: 2266.00 ft	Diameter: 3.34 inches	Volume: 24.56 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	2460.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 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			2433.00	
Shut In Tool	5.00			2438.00	
Hydraulic tool	5.00			2443.00	
Jars	5.00			2448.00	
Safety Joint	2.00			2450.00	
Packer	5.00			2455.00	28.00 Bottom Of Top Packer
Packer	5.00			2460.00	
Stubb	1.00			2461.00	
Recorder	0.00	6753	Inside	2461.00	
Recorder	0.00	8736	Outside	2461.00	
Perforations	6.00			2467.00	
Change Over Sub	1.00			2468.00	
Drill Pipe	31.00			2499.00	
Change Over Sub	1.00			2500.00	
Bullnose	3.00			2503.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petro., Inc.

**31-21s-4e Marion,KS**

4924 SE 84th St  
New ton KS 67114

**Cochise-Sioux #1**

Job Ticket: 55482

DST#: 2

ATTN: Jerry Smith

Test Start: 2013.12.07 @ 18:05:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

15000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1800.00	Water	18.453
330.00	MW	3.576

Total Length: 2130.00 ft

Total Volume: 22.029 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

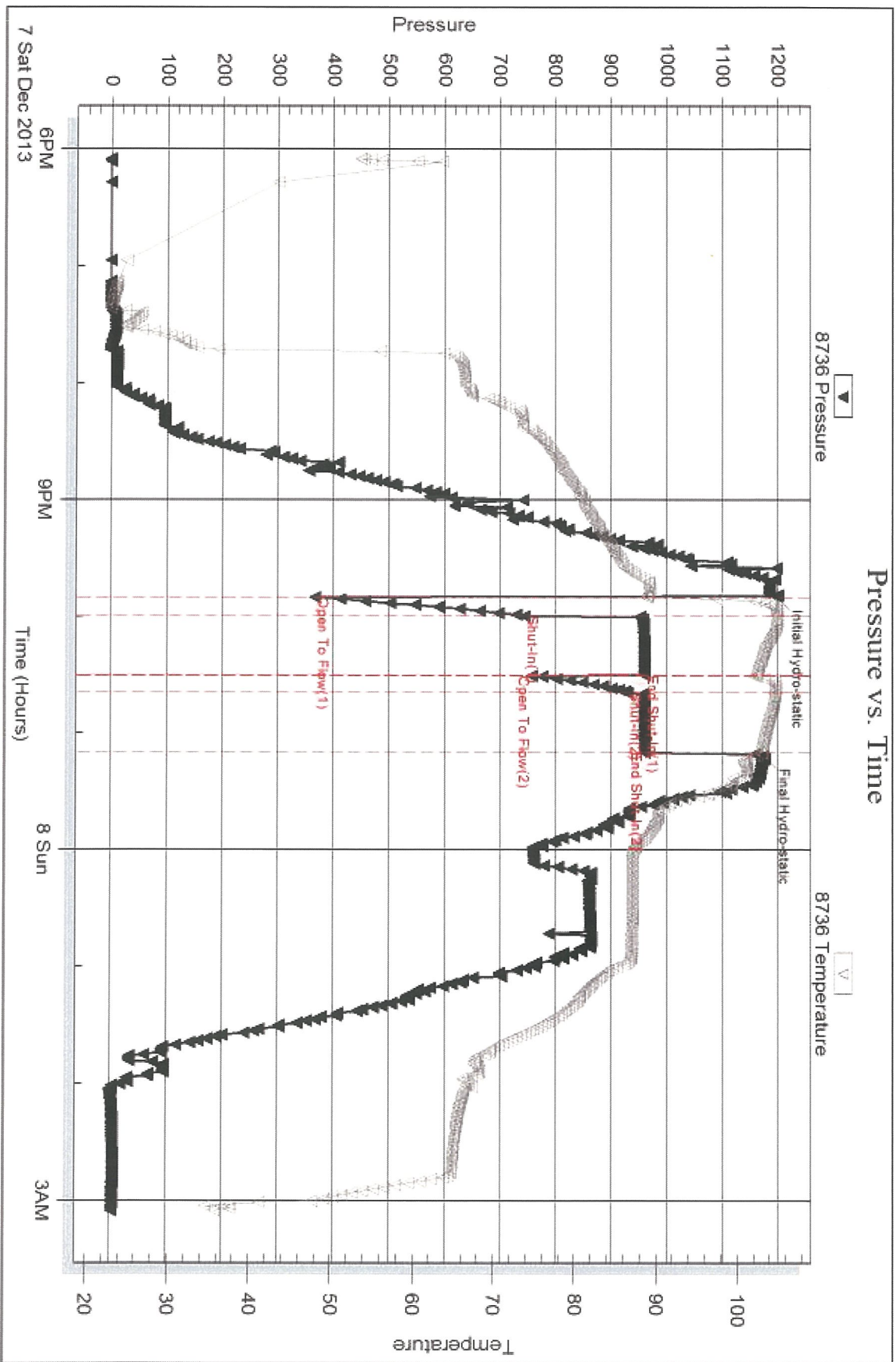


Serial #: 8736

Outside Palomino Petro., Inc.

Cochise-Stoux #1

DST Test Number: 2



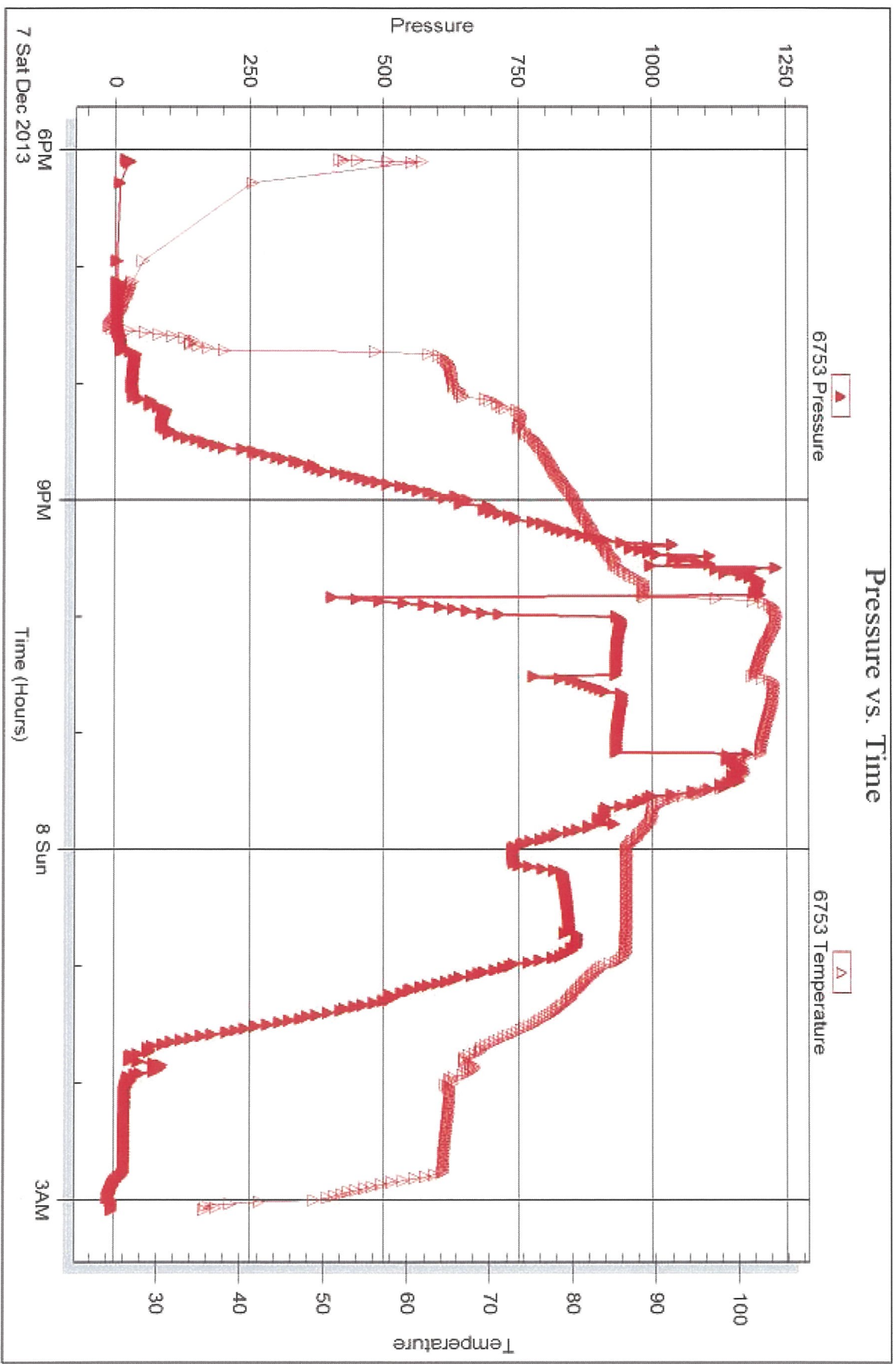
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Inside

Palomino Petro., Inc.

Cochise-Stoux #1

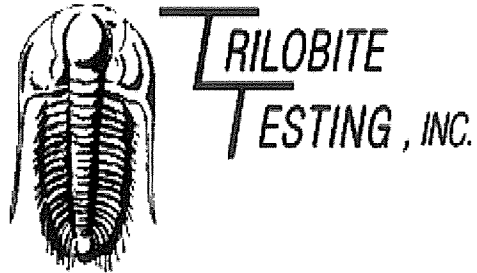
DST Test Number: 2



Tribbitt Testing, Inc

Ref. No: 55482

Printed: 2013 12 11 @ 09:58:05



## DRILL STEM TEST REPORT

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

4924 SE 84th St  
Newton KS 67114

ATTN: Jerry Smith

### **Cochise-Sioux #1**

### **31-21s-4e Marion,KS**

Start Date: 2013.12.08 @ 18:25:00

End Date: 2013.12.09 @ 02:57:30

Job Ticket #: 55483                      DST #: 3

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

Printed: 2013.12.11 @ 09:57:12

Palomino Petro., Inc.

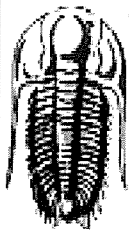
31-21s-4e Marion,KS

Cochise-Sioux #1

DST # 3

Simpson Sand

2013.12.08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petro., Inc.

**31-21s-4e Marion, KS**

4924 SE 84th St  
New ton KS 67114

**Cochise-Sioux #1**

Job Ticket: 55483

**DST#: 3**

ATTN: Jerry Smith

Test Start: 2013.12.08 @ 18:25:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:19:30

Time Test Ended: 02:57:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: **2610.00 ft (KB) To 2630.00 ft (KB) (TVD)**

Reference Elevations: 1346.00 ft (KB)

Total Depth: 2630.00 ft (KB) (TVD)

1340.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

**Serial #: 8736 Outside**

Press@RunDepth: 481.72 psig @ 2611.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.08

End Date: 2013.12.09

Last Calib.: 2013.12.09

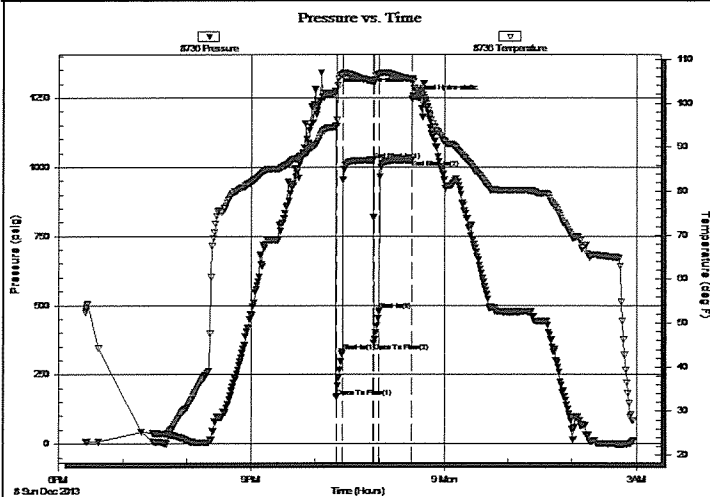
Start Time: 18:25:05

End Time: 02:57:30

Time On Btm: 2013.12.08 @ 22:19:00

Time Off Btm: 2013.12.08 @ 23:30:30

TEST COMMENT: IF-BOB in 30 sec  
IS-No blow  
FF-BOB in 30 sec  
FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1275.28	94.81	Initial Hydro-static
1	168.66	94.61	Open To Flow (1)
6	331.86	106.48	Shut-In(1)
35	1025.55	104.89	End Shut-In(1)
35	362.04	104.64	Open To Flow (2)
40	481.72	106.57	Shut-In(2)
71	1025.77	105.47	End Shut-In(2)
72	1247.73	105.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
590.00	Water	5.34
90.00	MW	0.98

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petro., Inc.  
4924 SE 84th St  
New ton KS 67114  
ATTN: Jerry Smith

**31-21s-4e Marion,KS**  
**Cochise-Sioux #1**  
Job Ticket: 55483      **DST#: 3**  
Test Start: 2013.12.08 @ 18:25:00

**Tool Information**

Drill Pipe:	Length: 2422.00 ft	Diameter: 3.34 inches	Volume: 26.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	2610.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	48.00 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			2583.00	
Shut In Tool	5.00			2588.00	
Hydraulic tool	5.00			2593.00	
Jars	5.00			2598.00	
Safety Joint	2.00			2600.00	
Packer	5.00			2605.00	28.00      Bottom Of Top Packer
Packer	5.00			2610.00	
Stubb	1.00			2611.00	
Recorder	0.00	6753	Inside	2611.00	
Recorder	0.00	8736	Outside	2611.00	
Perforations	16.00			2627.00	
Bullnose	3.00			2630.00	20.00      Bottom Packers & Anchor

**Total Tool Length: 48.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petro., Inc.  
4924 SE 84th St  
New ton KS 67114  
ATTN: Jerry Smith

**31-21s-4e Marion,KS**  
**Cochise-Sioux #1**  
Job Ticket: 55483      **DST#: 3**  
Test Start: 2013.12.08 @ 18:25:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	14000 ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
590.00	Water	5.340
90.00	MW	0.975

Total Length: 680.00 ft      Total Volume: 6.315 bbl

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

Laboratory Name:      Laboratory Location:

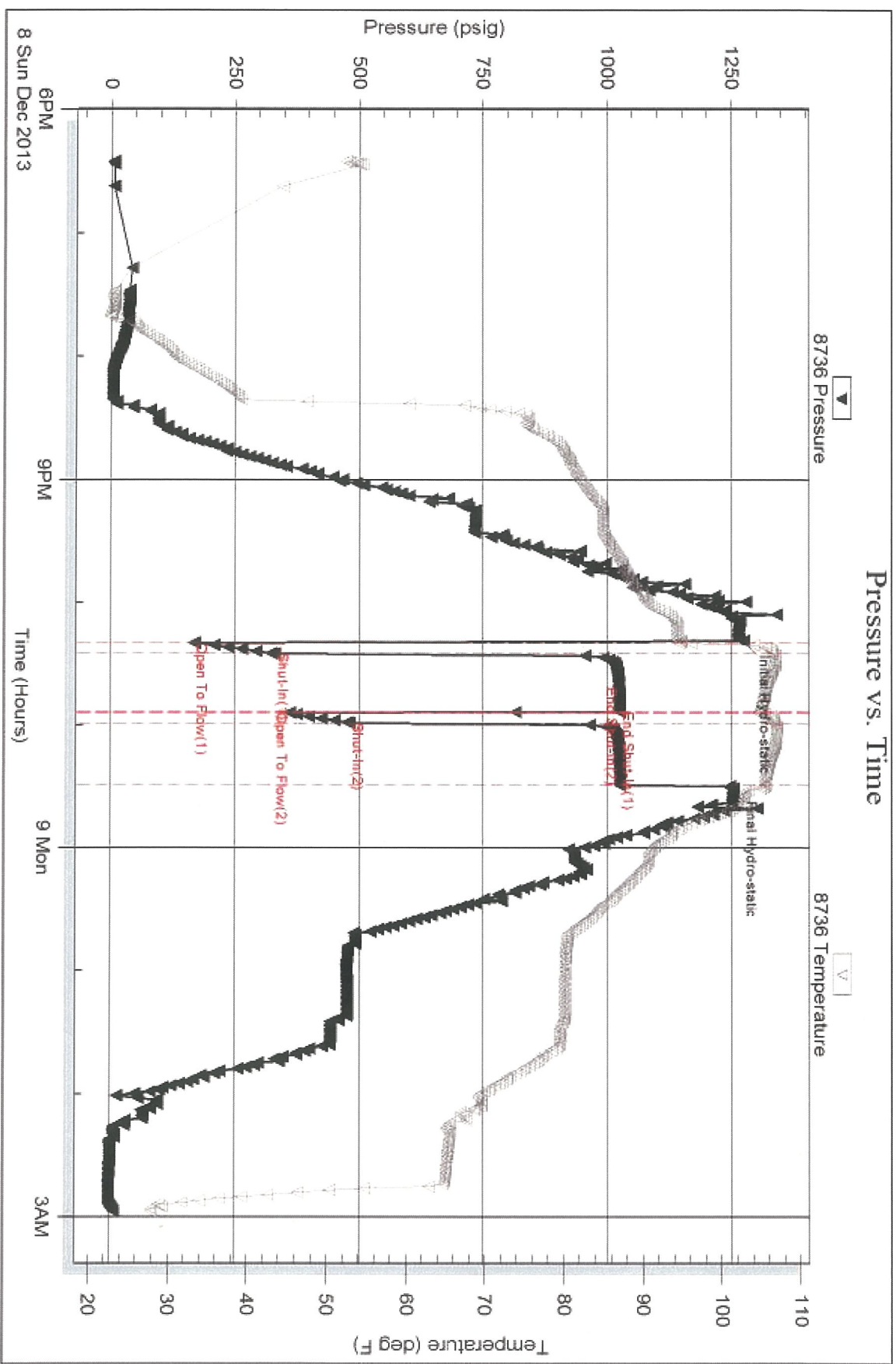
Recovery Comments:

Serial #: 8736

Outside Palomino Petro., Inc.

Cochise-Stoux #1

DST Test Number: 3



Tribolite Testing, Inc

Ref. No: 55483

Printed: 2013.12.11 @ 09:57:14

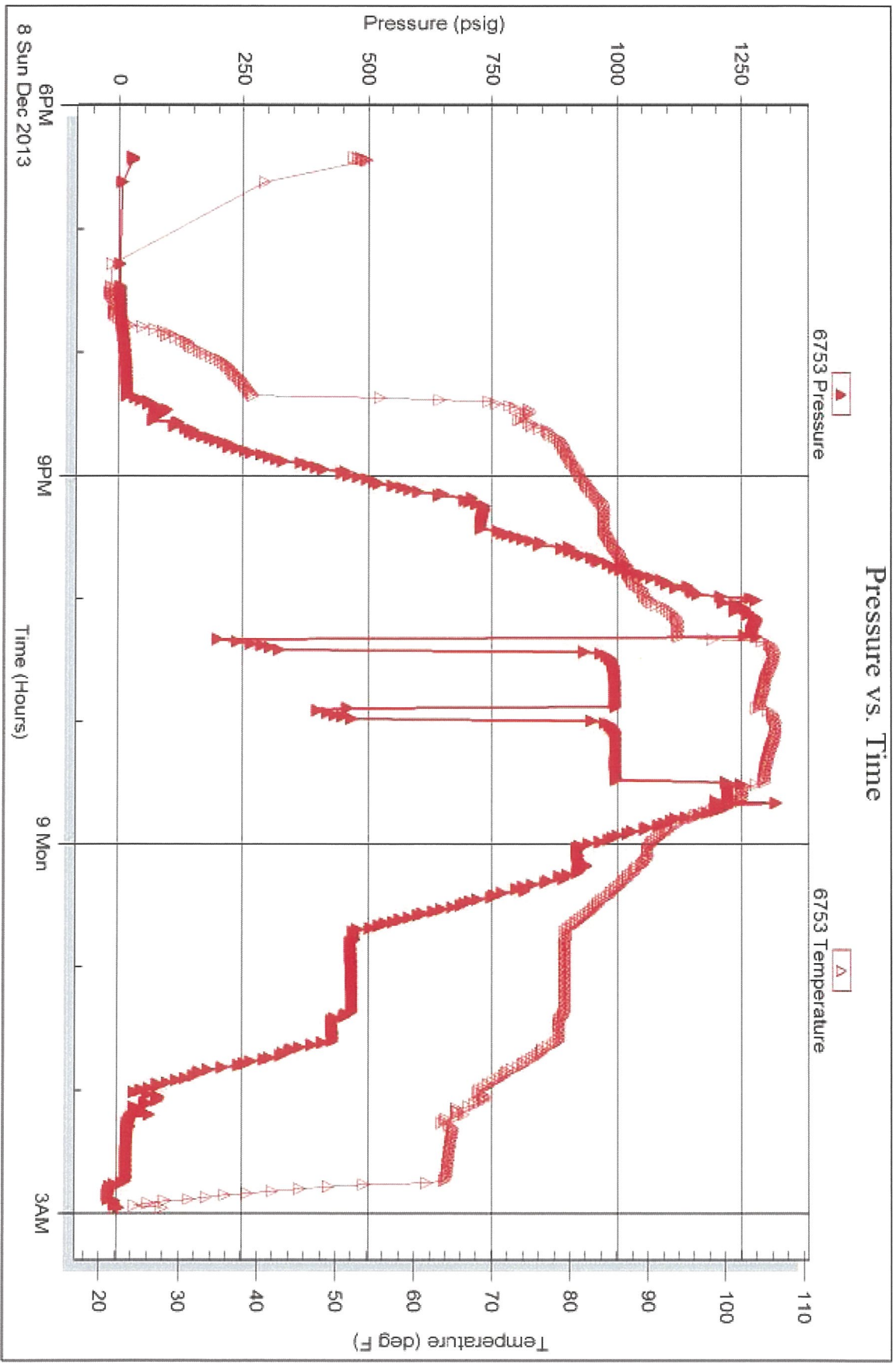
Serial #: 6753

Inside

Palomino Petro., Inc.

Cochise-Stoux #1

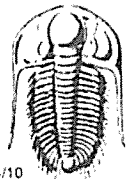
DST Test Number: 3



Tribble Testing, Inc

Ref. No: 55483

Printed: 2013.12.11 @ 09:57:15



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55481

Well Name & No. Cochise - Sioux #1 Test No. 1 Date 12/2/13  
 Company Palomina Petroleum, Inc. Elevation 1346 KB 1340 GL  
 Address 4924 SE 84th ST Newton KS 67114  
 Co. Rep / Geo. Jerry Smith Rig C + G #1  
 Location: Sec. 31 Twp. 21 Rge. 4 Co. Marion State KS

Interval Tested 2295 - 2340 Zone Tested Miss  
 Anchor Length 45 Drill Pipe Run 178 Mud Wt. 9.2  
 Top Packer Depth 2290 Drill Collars Run 178 Vis 42  
 Bottom Packer Depth 2295 Wt. Pipe Run --- WL 8.8  
 Total Depth 2340 Chlorides 1,700 ppm System LCM 2

Blow Description IF - 2 in blow  
ISI - No blow  
FF - Very weak surface blow  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>WPCN</u>	<u>5</u>		<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 90 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

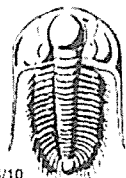
(A) Initial Hydrostatic 1132  Test 1150 T-On Location 11:10  
 (B) First Initial Flow 17  Jars 250 T-Started 11:55  
 (C) First Final Flow 28  Safety Joint 75 T-Open 14:03  
 (D) Initial Shut-In 634  Circ Sub \_\_\_\_\_ T-Pulled 16:03  
 (E) Second Initial Flow 32  Hourly Standby \_\_\_\_\_ T-Out 4:25  
 (F) Second Final Flow 642  Mileage 246RT 381.30 Comments out of town 5 days  
 (G) Final Shut-In 623  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1117  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 0  
 Total 1856.30  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1856.30

Approved By \_\_\_\_\_ Our Representative Bert Dickinson

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. 55482

Well Name & No. Cochise - Sioux #1 Test No. 2 Date 12/7/13  
 Company Palomino Petroleum, Inc. Elevation 1346 KB 1340 GL  
 Address 4974 SE 84<sup>th</sup> St Newton KS 67444  
 Co. Rep / Geo. Jerry Smith Rig C26 #1  
 Location: Sec. 31 Twp. 21 Rge. 4 Co. Marion State KS

Interval Tested 2460 - 2503 Zone Tested Hunter  
 Anchor Length 43 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.2  
 Top Packer Depth 2455 Drill Collars Run 175 Vis 42  
 Bottom Packer Depth 2460 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 2503 Chlorides 1,700 ppm System LCM 2

Blow Description IF - BOB in 15 sec  
ISJ - No blow  
FF - BOB in 15 sec  
FSJ - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>330</u>	<u>MW</u>				
<u>1800</u>	<u>water</u>				
_____	_____				
_____	_____				
_____	_____				

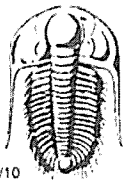
Rec Total 2140 BHT 103 Gravity \_\_\_\_\_ API RW .6 @ 52 °F Chlorides 15,000 ppm

(A) Initial Hydrostatic 1,198  Test 1150 T-On Location 17:35  
 (B) First Initial Flow 368  Jars 250 T-Started 18:05  
 (C) First Final Flow 746  Safety Joint 75 T-Open 21:48  
 (D) Initial Shut-In 961  Circ Sub 50 T-Pulled 23:08  
 (E) Second Initial Flow 758  Hourly Standby \_\_\_\_\_ T-Out 3:05  
 (F) Second Final Flow 931  Mileage 246.7 381.30 Comments reversed out  
 (G) Final Shut-In 961  Sampler \_\_\_\_\_ out of town 5 days  
 (H) Final Hydrostatic 1,174  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1906.30  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1906.30

Initial Open 10  
 Initial Shut-In 30  
 Final Flow 10  
 Final Shut-In 30

Approved By \_\_\_\_\_ Our Representative Beth Dush

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55483

Well Name & No. Cochise - Sioux #1 Test No. 3 Date 12/8/13  
 Company Palomino Petroleum, Inc. Elevation 1346 KB 1340 GL  
 Address 4924 SE 84th ST Newton KS 67114  
 Co. Rep / Geo. Jerry Smith Rig C&G #1  
 Location: Sec. 31 Twp. 21 Rge. 4 Co. Marion State KS

Interval Tested 2610 - 2630 Zone Tested Simpson Sand  
 Anchor Length 20 Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 2605 Drill Collars Run 178 Vis 45  
 Bottom Packer Depth 2610 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 2630 Chlorides 1,500 ppm System LCM 2 #

Blow Description IF - BOB in 1/2 min  
FSI - No blow  
FF - BOB in 1/2 min  
FSI - N. blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>540</u>	<u>water</u>				
<u>90</u>	<u>MW</u>				
_____	_____				
_____	_____				
_____	_____				

Rec Total 680 BHT 105 Gravity \_\_\_\_\_ API RW .8 @ 40 °F Chlorides 14,000 ppm

(A) Initial Hydrostatic <u>1,275</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>18:05</u>
(B) First Initial Flow <u>169</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:25</u>
(C) First Final Flow <u>332</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>22:17</u>
(D) Initial Shut-In <u>1,026</u>	<input checked="" type="checkbox"/> Circ Sub <u>50</u>	T-Pulled <u>23:27</u>
(E) Second Initial Flow <u>362</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>2:55</u>
(F) Second Final Flow <u>482</u>	<input checked="" type="checkbox"/> Mileage <u>246.7</u> <u>381.30</u>	Comments <u>reversed out</u>
(G) Final Shut-In <u>1,026</u>	<input type="checkbox"/> Sampler _____	<u>load tools 10:00 am</u>
(H) Final Hydrostatic <u>1,247</u>	<input type="checkbox"/> Straddle _____	<u>The 10<sup>th</sup> out of town</u>

Initial Open 5  
 Initial Shut-In 30  
 Final Flow 5  
 Final Shut-In 30

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 800  
 Total 2706.30  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1906.30

Approved By \_\_\_\_\_ Our Representative Brett Durbin

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