



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

RECEIVED

MAY 04 2017

MAIN OFFICE

P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice

Invoice# 810194

Invoice Date: 04/30/17

Terms: Net 30

Page 1

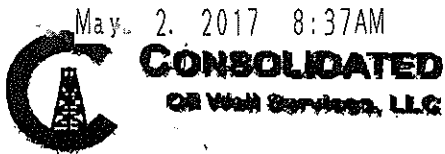
PALOMINO PETROLEUM, INC.

4924 SE 84TH STREET
 NEWTON KS 67114-8827
 USA

Berl #1

Tax: 279.00

Total: 5,764.25



May. 2. 2017 8:37AM

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

8085
7981

No. 0352 P. 4
KET NUMBER 51145

LOCATION Oakley KS
FOREMAN M. L. Shaw

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 810194 ^{MS}

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-28-17	6285	Berl #1	11	20S	39W	Scott
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Palomino Petroleum			753	Travis W		
Mailing Address			460	Harold B		
4924 SE 84th Street						
CITY	STATE	ZIP CODE				
Newton	Ks	67114-8827				

JOB TYPE	PTA	HOLE SIZE	7 7/8"	HOLE DEPTH		CASING SIZE & WEIGHT	
CASING DEPTH		DRILL PIPE	4 1/2"	TUBING		OTHER	
SLURRY WEIGHT	13.8	SLURRY VOL	1.4	WATER gal/sk		CEMENT LEFT In CASING	
DISPLACEMENT		DISPLACEMENT PSI		MIX PSI		RATE	

REMARKS: Safety meetings and rig up on W/drilling rig #2. Plug as ordered

- 1st plug 50 sk @ 2260'
- 2nd plug 80 sk @ 1200'
- 3rd plug 50 sk @ 600' 270 sk 60/40 4% gel 1/4" flo seal
- 4th plug 40 sk @ 240'
- 5th plug 20 sk @ 60'
- RH 30 sk

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	45	MILEAGE	7.15	321.75
CE0710	11.75 Tons	Ton M. loader delivery	1.75	925.31
CE5829	1235 270 sk	Lite-weight blend JK 60/40 4% gel	16.00	4320.00
CE6075	68 #	Cello Blake / Flo seal	3.00	204.00
CEP228	1	8 5/8" wooden plug	165.00	165.00
			Subtotal	7836.06
			less 30% discount	2350.81
			Subtotal	5485.25
			8.5%	
			SALES TAX	279.00
			ESTIMATED TOTAL	5764.25

Ravin 3737

AUTHORIZATION

[Signature]

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 statement, and conditions of service on the back of this form are in effect for services identified on this form

Received Time: May. 2. 2017 8:37AM No. 0963



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

MAIN OFFICE

P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice

Invoice#

810092

Invoice Date: 04/19/17

Terms: Net 30

Page 1

PALOMINO PETROLEUM, INC.

4924 SE 84TH STREET
 NEWTON KS 67114-8827
 USA

RECEIVED

APR 21 2017

BERL #1

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	30.000	805.00
CE0002	Equipment Mileage Charge - Heavy Equipment	55.000	7.1500	30.000	275.28
CE0710	Cement Delivery Charge	1.000	746.9000	30.000	522.83
CC5871	Surface Blend II, 2% Gel/3% CaCl	165.000	23.0000	30.000	2,656.50

Subtotal 6,085.15

Discounted Amount 1,825.55

SubTotal After Discount 4,259.60

Amount Due 6,407.73 If paid after 05/19/17

Tax: 225.80

Total: 4,485.41



CONSOLIDATED
Oil Well Services, LLC

8002
7899

WELL NUMBER 51739
LOCATION Oakley KS
FOREMAN Miles Shaw

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

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 810092 ^{KS}

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-17-17	6285	Becl #1	11	205	34W	Scott
CUSTOMER <u>Palomino Petroleum, Inc</u>			Scott city S 40240 7W 10 & E into			
MAILING ADDRESS <u>4924 SE 84th Street</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Newton</u> STATE <u>KS</u> ZIP CODE <u>67114-8827</u>			<u>731</u>	<u>Cory D</u>		
			<u>566</u>	<u>Steven O</u>		
			<u>703</u>			

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 208' CASING SIZE & WEIGHT 8 5/8" 23 #
 CASING DEPTH 208' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 12 b/s DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and pig up on Wld drilling rig #2 Circulate casing
Mix 1655x Class A cement w/ 3% calcium 28 gal displaced 12 b/s water
Shut in Cement did Circulate 2 b/s split

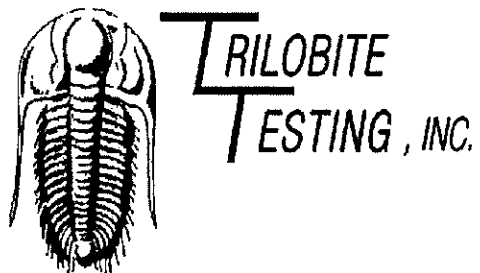
Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	55	MILEAGE	7.15	393.25
CE0710	7.76 Tons	Ton Mileage delivery	1.75	746.90
CE5871	1655L	Surface blend II 3%Ca 28gal	23.00	3795.00
			Subtotal	6085.15
			less 30% discount	1825.55
			Subtotal	4259.60
			SALES TAX	225.81
			ESTIMATED TOTAL	4485.41

Ravin 3737

AUTHORIZATION [Signature] 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.



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Berl #1

11-20s-34w Scott,KS

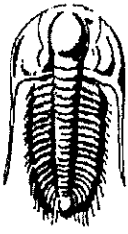
Start Date: 2017.04.22 @ 16:44:05

End Date: 2017.04.23 @ 01:21:05

Job Ticket #: 63793 DST #: 1

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

Printed: 2017.04.28 @ 10:26:39



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc

11-20s-34w Scott, KS

4924 SE 84th St
Newton, KS 67114

Berl #1

Job Ticket: 63793

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.04.22 @ 16:44:05

GENERAL INFORMATION:

Formation: LKC H

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:49:35

Time Test Ended: 01:21:05

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 70

Interval: 4165.00 ft (KB) To 4214.00 ft (KB) (TVD)

Reference Elevations: 3039.00 ft (KB)

Total Depth: 4214.00 ft (KB) (TVD)

3034.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8166

Inside

Press@RunDepth: 224.20 psig @ 4166.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.22

End Date:

2017.04.23

Last Calib.: 2017.04.23

Start Time: 16:44:10

End Time:

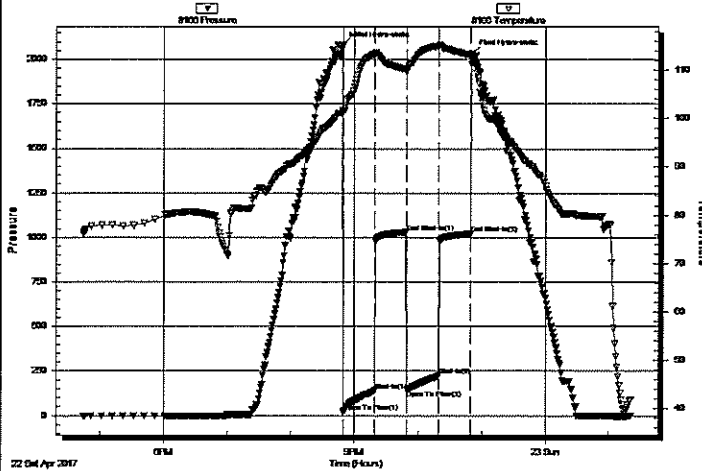
01:21:05

Time On Btm: 2017.04.22 @ 20:49:05

Time Off Btm: 2017.04.22 @ 22:50:35

TEST COMMENT: IF: BOB in 16 min.
IS: No return.
FF: BOB in 19 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

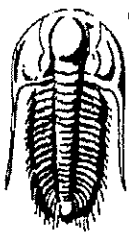
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2078.75	101.71	Initial Hydro-static
1	21.82	101.38	Open To Flow (1)
30	140.68	113.30	Shut-In(1)
60	1028.44	110.17	End Shut-In(1)
60	146.59	109.58	Open To Flow (2)
90	224.20	115.04	Shut-In(2)
120	1018.44	113.08	End Shut-In(2)
122	2034.62	112.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	mcw 95%w 5%m	1.50
124.00	mcw 80%w 20%m	1.74
155.00	w cm 30%w 70%m	2.17
0.00	H2S 67ppm	0.00

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
ATTN: Andrew Stenzel

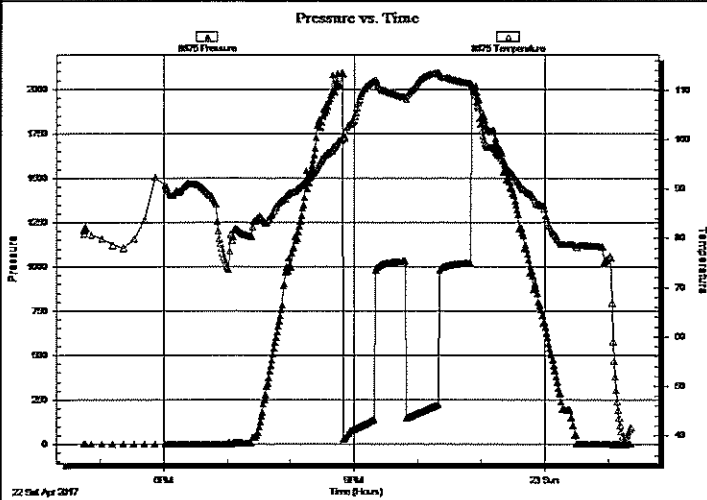
11-20s-34w Scott,KS
Berl #1
Job Ticket: 63793 DST#: 1
Test Start: 2017.04.22 @ 16:44:05

GENERAL INFORMATION:

Formation: **LKC H**
Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**
Time Tool Opened: **20:49:35** Tester: **Brandon Turley**
Time Test Ended: **01:21:05** Unit No: **70**
Interval: **4165.00 ft (KB) To 4214.00 ft (KB) (TVD)** Reference Elevations: **3039.00 ft (KB)**
Total Depth: **4214.00 ft (KB) (TVD)** **3034.00 ft (CF)**
Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **5.00 ft**

Serial #: 8875 **Outside**
Press@RunDepth: psig @ **4166.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: 2017.04.22 End Date: 2017.04.23 Last Calib.: 1899.12.30
Start Time: 16:44:30 End Time: 01:21:25 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 16 min.
IS: No return.
FF: BOB in 19 min.
FS: No return.



PRESSURE SUMMARY

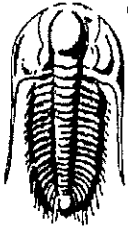
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
185.00	mcw 95%w 5%m	1.50
124.00	mcw 80%w 20%m	1.74
155.00	w cm 30%w 70%m	2.17
0.00	H2S 67ppm	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63793

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.04.22 @ 16:44:05

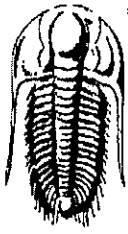
Tool Information

Drill Pipe:	Length: 4030.00 ft	Diameter: 3.80 inches	Volume: 56.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4165.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	76.00 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			4139.00	
Shut In Tool	5.00			4144.00	
Hydraulic tool	5.00			4149.00	
Jars	5.00			4154.00	
Safety Joint	2.00			4156.00	
Packer	5.00			4161.00	27.00 Bottom Of Top Packer
Packer	4.00			4165.00	
Stubb	1.00			4166.00	
Recorder	0.00	8166	Inside	4166.00	
Recorder	0.00	8875	Outside	4166.00	
Perforations	10.00			4176.00	
Change Over Sub	1.00			4177.00	
Drill Pipe	31.00			4208.00	
Change Over Sub	1.00			4209.00	
Bullnose	5.00			4214.00	49.00 Bottom Packers & Anchor

Total Tool Length: 76.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63793

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.04.22 @ 16:44:05

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 46000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.18 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	mcw 95%w 5%m	1.502
124.00	mcw 80%w 20%m	1.739
155.00	w cm 30%w 70%m	2.174
0.00	H2S 67ppm	0.000

Total Length: 464.00 ft Total Volume: 5.415 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: .29@38=46000

Serial #: 8166

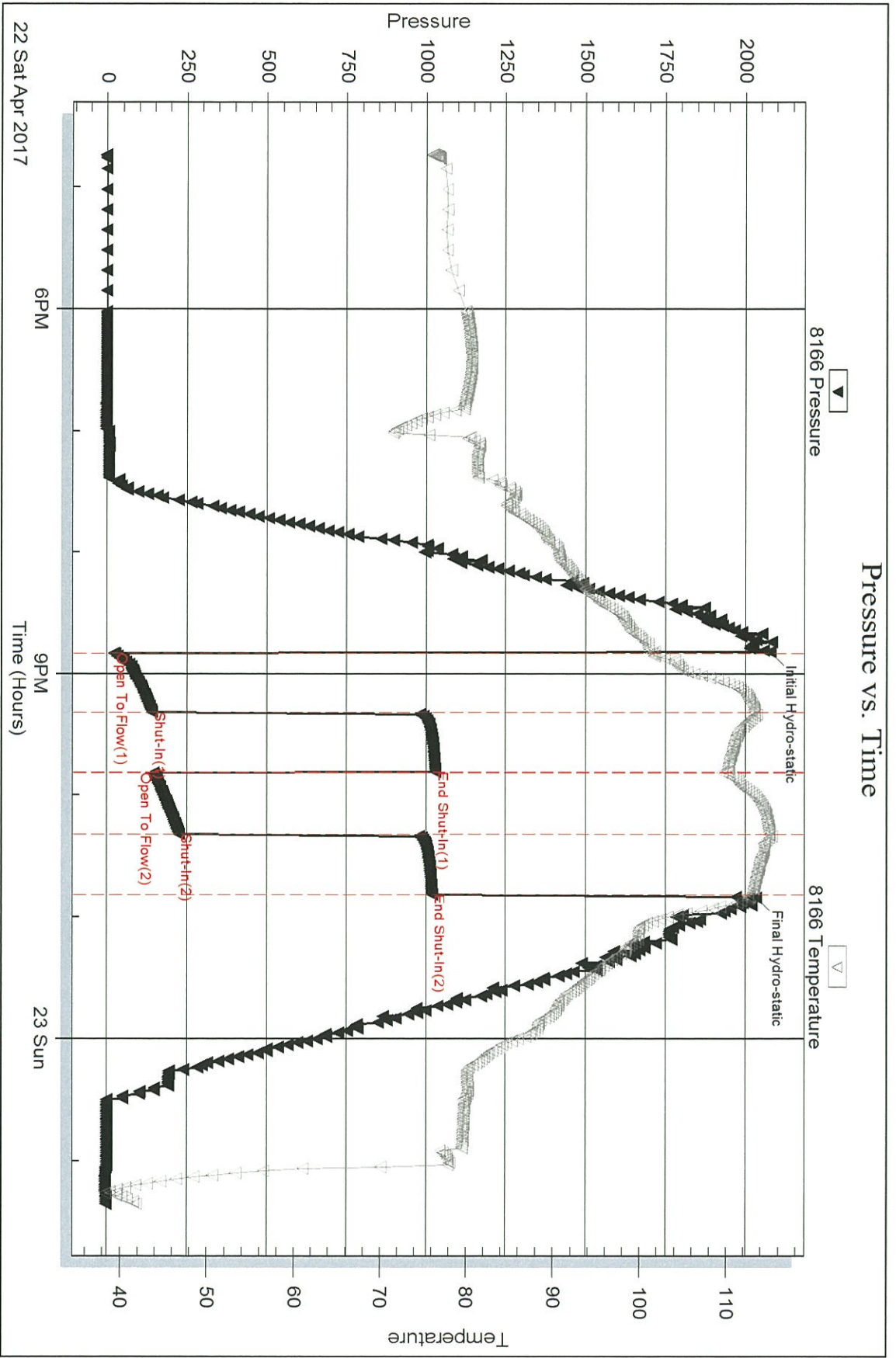
Inside

Palorino Petroleum Inc

Berl #1

DST Test Number: 1

Pressure vs. Time



Triobble Testing, Inc

Ref. No: 63793

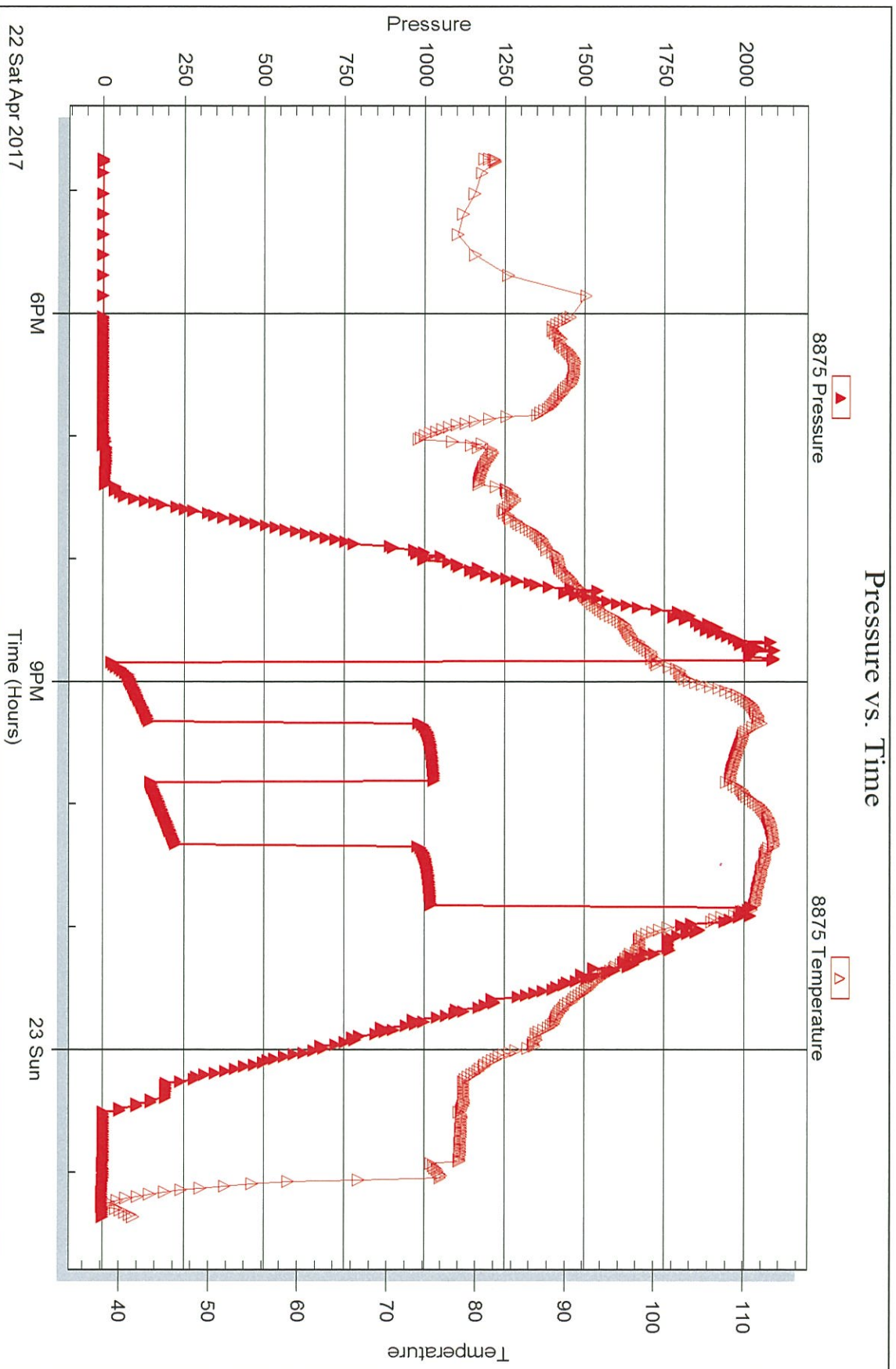
Printed: 2017.04.28 @ 10:26:44

Serial #: 8875

Outside Palomino Petroleum Inc

Berl #1

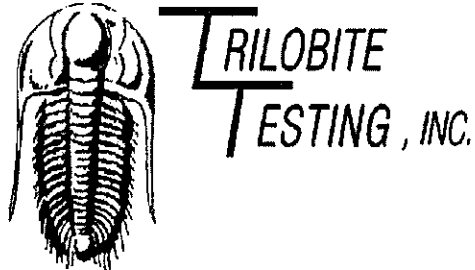
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 63793

Printed: 2017.04.28 @ 10:26:44



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Berl #1

11-20s-34w Scott,KS

Start Date: 2017.04.23 @ 09:22:42

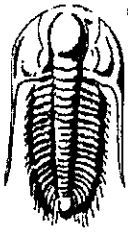
End Date: 2017.04.23 @ 15:44:12

Job Ticket #: 63794 DST #: 2

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

Printed: 2017.04.28 @ 10:26:10

Palomino Petroleum Inc
11-20s-34w Scott,KS
Berl #1
DST # 2
LKC 1
2017.04.23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc

11-20s-34w Scott,KS

4924 SE 84th St
Newton, KS 67114

Berl #1

Job Ticket: 63794

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.04.23 @ 09:22:42

GENERAL INFORMATION:

Formation: LKC 1

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:38:42

Time Test Ended: 15:44:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 70

Interval: 4215.00 ft (KB) To 4243.00 ft (KB) (TVD)

Reference Elevations: 3039.00 ft (KB)

Total Depth: 4243.00 ft (KB) (TVD)

3034.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8166

Inside

Press@RunDepth: 450.94 psig @ 4216.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.23

End Date:

2017.04.23

Last Calib.: 2017.04.23

Start Time: 09:22:47

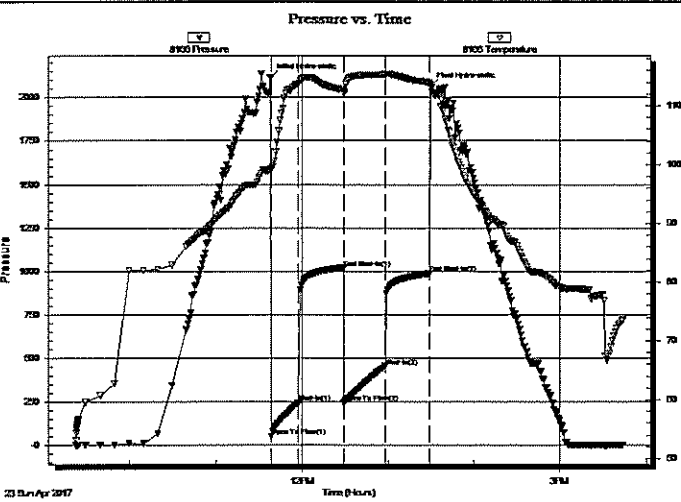
End Time:

15:44:11

Time On Btm: 2017.04.23 @ 11:38:12

Time Off Btm: 2017.04.23 @ 13:29:42

TEST COMMENT: IF: BOB in 4 min.
IS: No return.
FF: BOB in 6 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.11	99.36	Initial Hydro-static
1	49.03	99.07	Open To Flow (1)
19	244.05	113.63	Shut-In(1)
51	1016.83	112.77	End Shut-In(1)
51	242.65	112.19	Open To Flow (2)
80	450.94	115.31	Shut-In(2)
111	984.94	113.96	End Shut-In(2)
112	2063.98	113.57	Final Hydro-static

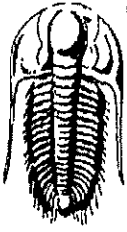
Recovery

Length (ft)	Description	Volume (bbl)
696.00	w ater 100%w	8.67
236.00	mcw 90%w 10%m	3.31
0.00	H2S 40ppm	0.00

* 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

ATTN: Andrew Stenzel

11-20s-34w Scott,KS

Berl #1
Job Ticket: 63794 **DST#: 2**

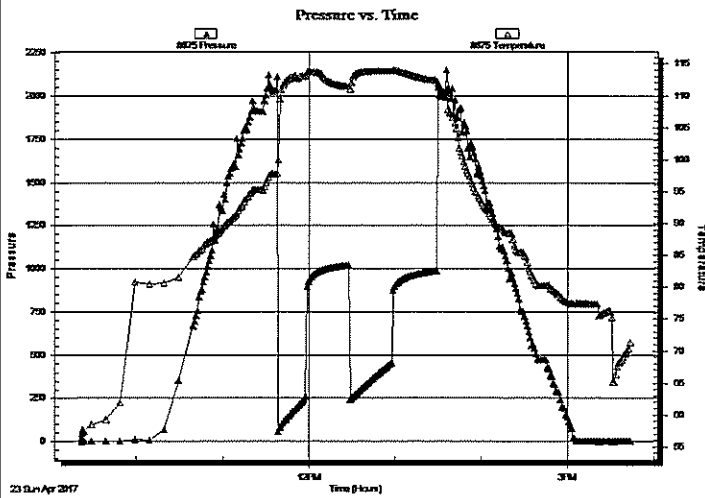
Test Start: 2017.04.23 @ 09:22:42

GENERAL INFORMATION:

Formation: LKC I				Test Type: Conventional Bottom Hole (Reset)
Deviated: No	Whipstock: ft (KB)			Tester: Brandon Turley
Time Tool Opened: 11:38:42				Unit No: 70
Time Test Ended: 15:44:12				
Interval: 4215.00 ft (KB) To 4243.00 ft (KB) (TVD)			Reference Elevations: 3039.00 ft (KB)	
Total Depth: 4243.00 ft (KB) (TVD)			3034.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good		KB to GR/CF: 5.00 ft	

Serial #: 8875	Outside				
Press@RunDepth: psig @	4216.00 ft (KB)	Capacity:	8000.00 psig		
Start Date: 2017.04.23	End Date: 2017.04.23	Last Calib.:	2017.04.23		
Start Time: 09:22:44	End Time: 15:44:08	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IF: BOB in 4 min.
IS: No return.
FF: BOB in 6 min.
FS: No return.



PRESSURE SUMMARY

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

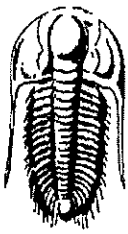
Recovery

Length (ft)	Description	Volume (bbl)
696.00	w ater 100%w	8.67
236.00	mcw 90%w 10%m	3.31
0.00	H2S 40ppm	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

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63794

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.04.23 @ 09:22:42

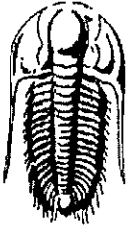
Tool Information

Drill Pipe:	Length: 4093.00 ft	Diameter: 3.80 inches	Volume: 57.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 58.00 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4215.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 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			4189.00	
Shut In Tool	5.00			4194.00	
Hydraulic tool	5.00			4199.00	
Jars	5.00			4204.00	
Safety Joint	2.00			4206.00	
Packer	5.00			4211.00	27.00 Bottom Of Top Packer
Packer	4.00			4215.00	
Stubb	1.00			4216.00	
Recorder	0.00	8166	Inside	4216.00	
Recorder	0.00	8875	Outside	4216.00	
Perforations	22.00			4238.00	
Bullnose	5.00			4243.00	28.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63794

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.04.23 @ 09:22:42

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
696.00	w ater 100%w	8.670
236.00	mcw 90%w 10%m	3.310
0.00	H2S 40ppm	0.000

Total Length: 932.00 ft Total Volume: 11.980 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .29@70=25000

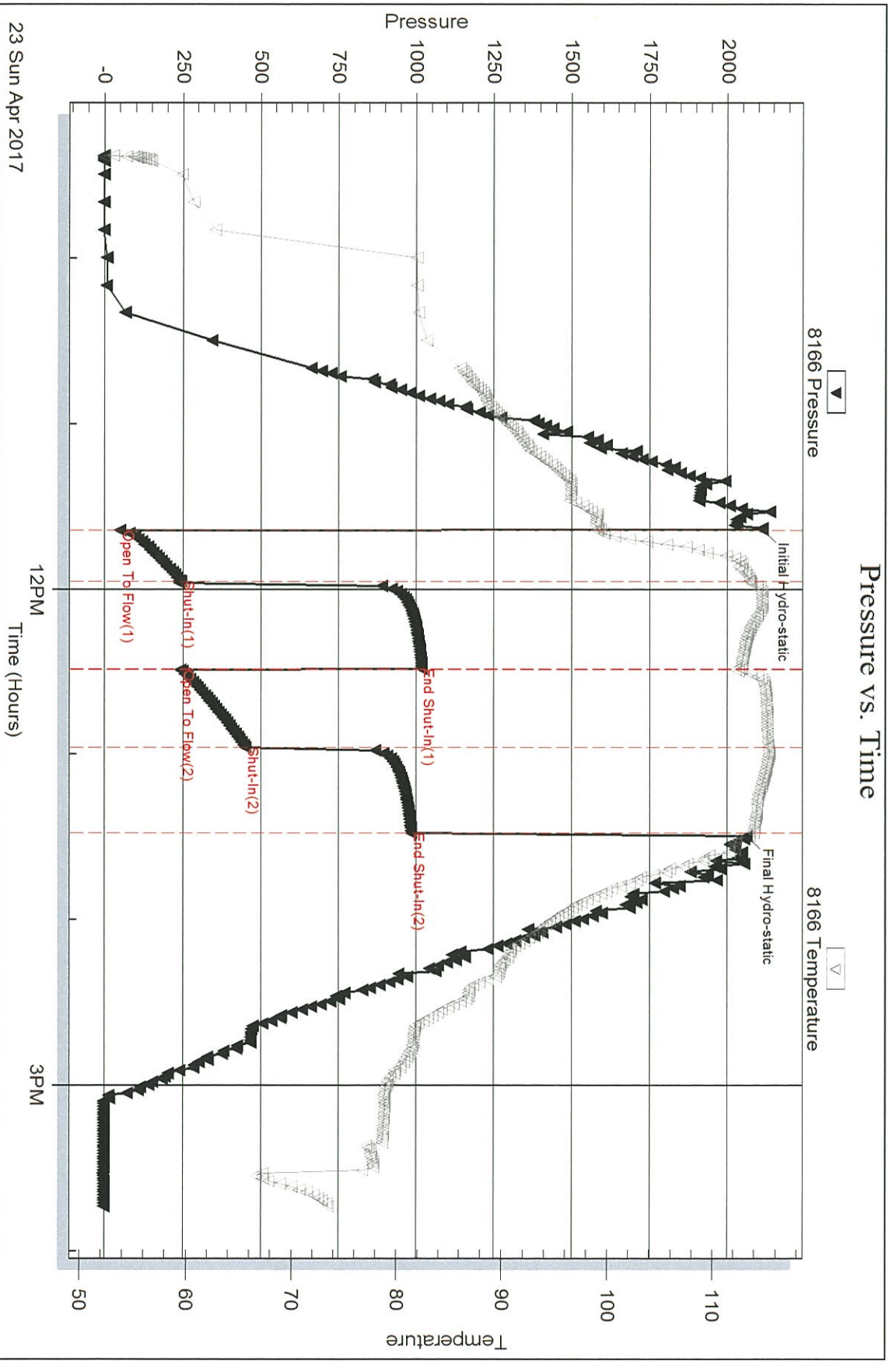
Serial #: 8166

Inside

Palomino Petroleum Inc

Berl #1

DST Test Number: 2

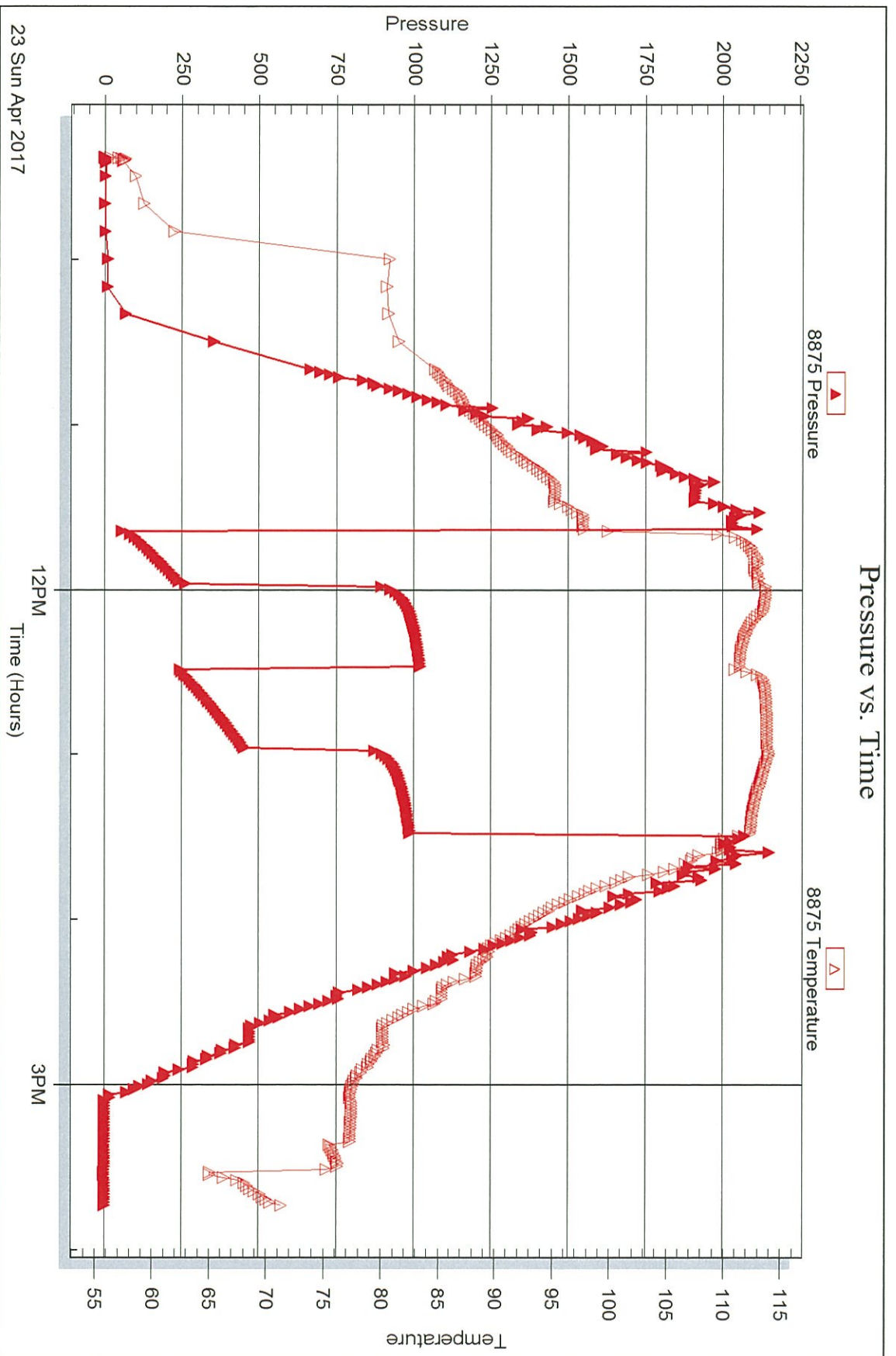


Serial #: 8875

Outside Palorino Petroleum Inc

Berl #1

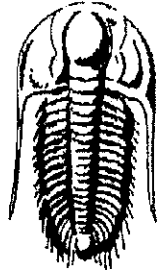
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63794

Printed: 2017.04.28 @ 10:26:11



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Berl #1

11-20s-34w Scott,KS

Start Date: 2017.04.24 @ 11:00:35

End Date: 2017.04.24 @ 16:56:05

Job Ticket #: 63795 DST #: 3

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.04.28 @ 10:25:48

Palomino Petroleum Inc
11-20s-34w Scott,KS
Berl #1
DST # 3
LKC L
2017.04.24



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

11-20s-34w Scott,KS

Berl #1

Job Ticket: 63795

DST#: 3

Test Start: 2017.04.24 @ 11:00:35

GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:12:35

Time Test Ended: 16:56:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 70

Interval: **4336.00 ft (KB) To 4420.00 ft (KB) (TVD)**

Total Depth: 4420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3039.00 ft (KB)

3034.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8166

Inside

Press@RunDepth: 29.79 psig @ 4337.00 ft (KB)

Start Date: 2017.04.24

End Date:

2017.04.24

Start Time: 11:00:40

End Time:

16:56:04

Capacity: 8000.00 psig

Last Calib.: 2017.04.24

Time On Btm: 2017.04.24 @ 13:11:35

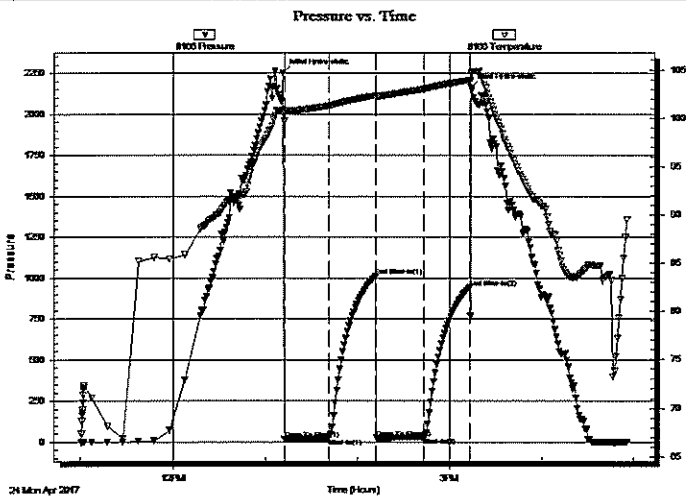
Time Off Btm: 2017.04.24 @ 15:14:05

TEST COMMENT: IF: 1/4" blow died in 6 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2252.60	100.85	Initial Hydro-static
1	18.28	99.64	Open To Flow (1)
30	23.74	101.23	Shut-In(1)
61	1013.33	102.33	End Shut-In(1)
61	25.52	102.15	Open To Flow (2)
92	29.79	102.99	Shut-In(2)
122	943.49	103.92	End Shut-In(2)
123	2164.99	104.58	Final Hydro-static

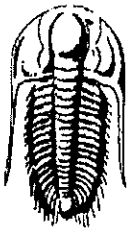
Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc

11-20s-34w Scott, KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63795

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.04.24 @ 11:00:35

GENERAL INFORMATION:

Formation: LKC L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:12:35

Time Test Ended: 16:56:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 70

Interval: 4336.00 ft (KB) To 4420.00 ft (KB) (TVD)

Reference Elevations: 3039.00 ft (KB)

Total Depth: 4420.00 ft (KB) (TVD)

3034.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8875

Outside

Press@RunDepth: psig @ 4337.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.24

End Date:

2017.04.24

Last Calib.:

2017.04.24

Start Time: 11:00:31

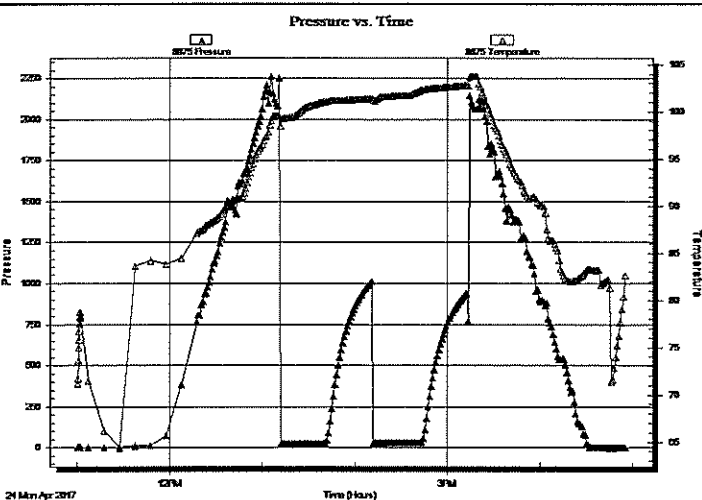
End Time:

16:55:55

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow died in 6 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

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

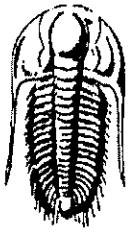
Recovery

Length (ft)	Description	Volume (bbi)
5.00	mud 100%m	0.02

* 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

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63795

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.04.24 @ 11:00:35

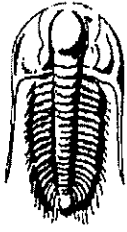
Tool Information

Drill Pipe:	Length: 4219.00 ft	Diameter: 3.80 inches	Volume: 59.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4336.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	111.00 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			4310.00	
Shut In Tool	5.00			4315.00	
Hydraulic tool	5.00			4320.00	
Jars	5.00			4325.00	
Safety Joint	2.00			4327.00	
Packer	5.00			4332.00	27.00 Bottom Of Top Packer
Packer	4.00			4336.00	
Stubb	1.00			4337.00	
Recorder	0.00	8166	Inside	4337.00	
Recorder	0.00	8875	Outside	4337.00	
Perforations	13.00			4350.00	
Change Over Sub	1.00			4351.00	
Drill Pipe	63.00			4414.00	
Change Over Sub	1.00			4415.00	
Bullnose	5.00			4420.00	84.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63795

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.04.24 @ 11:00:35

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 60000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8166

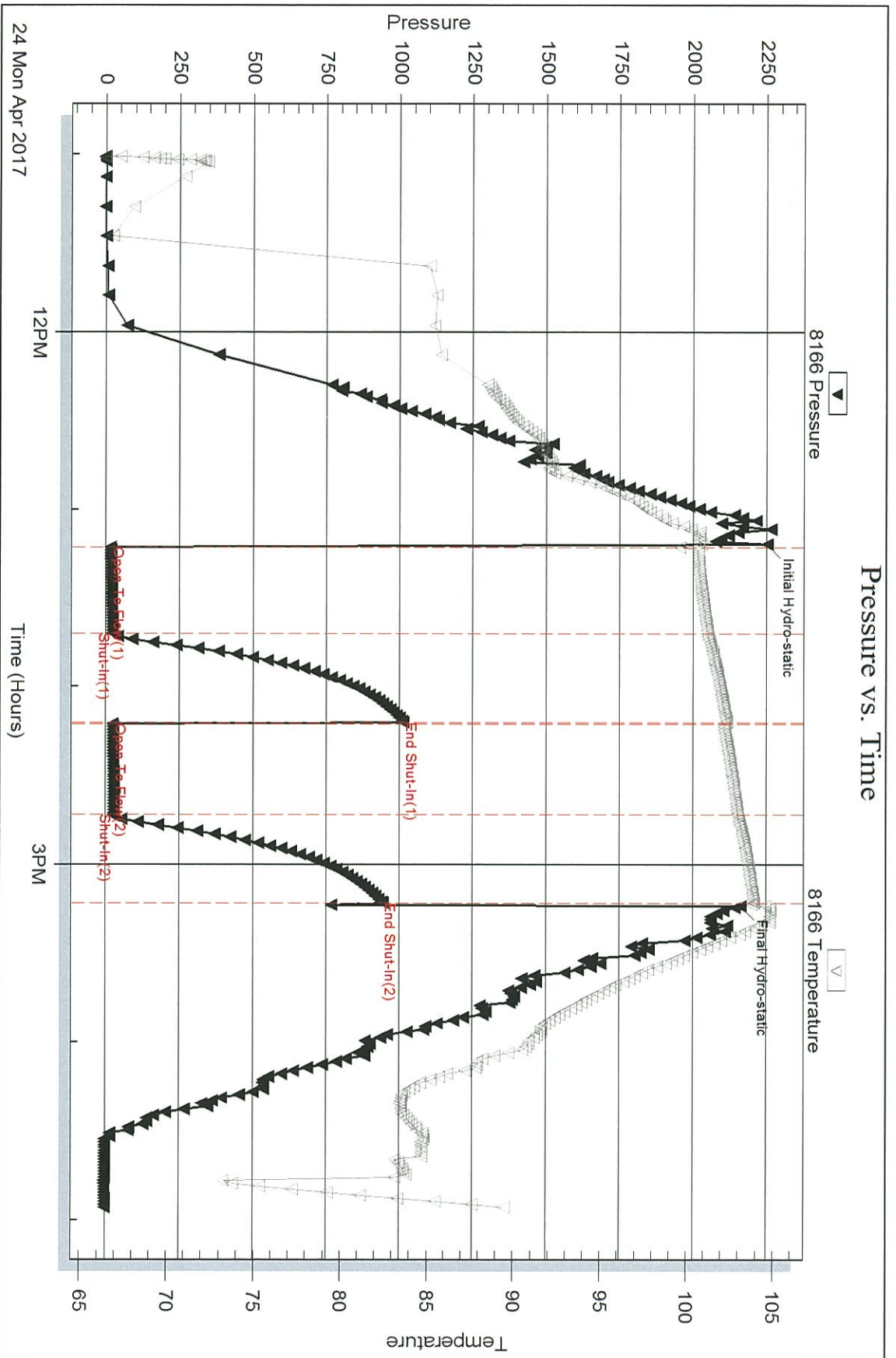
Inside

Palomino Petroleum Inc

Berl #1

DST Test Number: 3

Pressure vs. Time

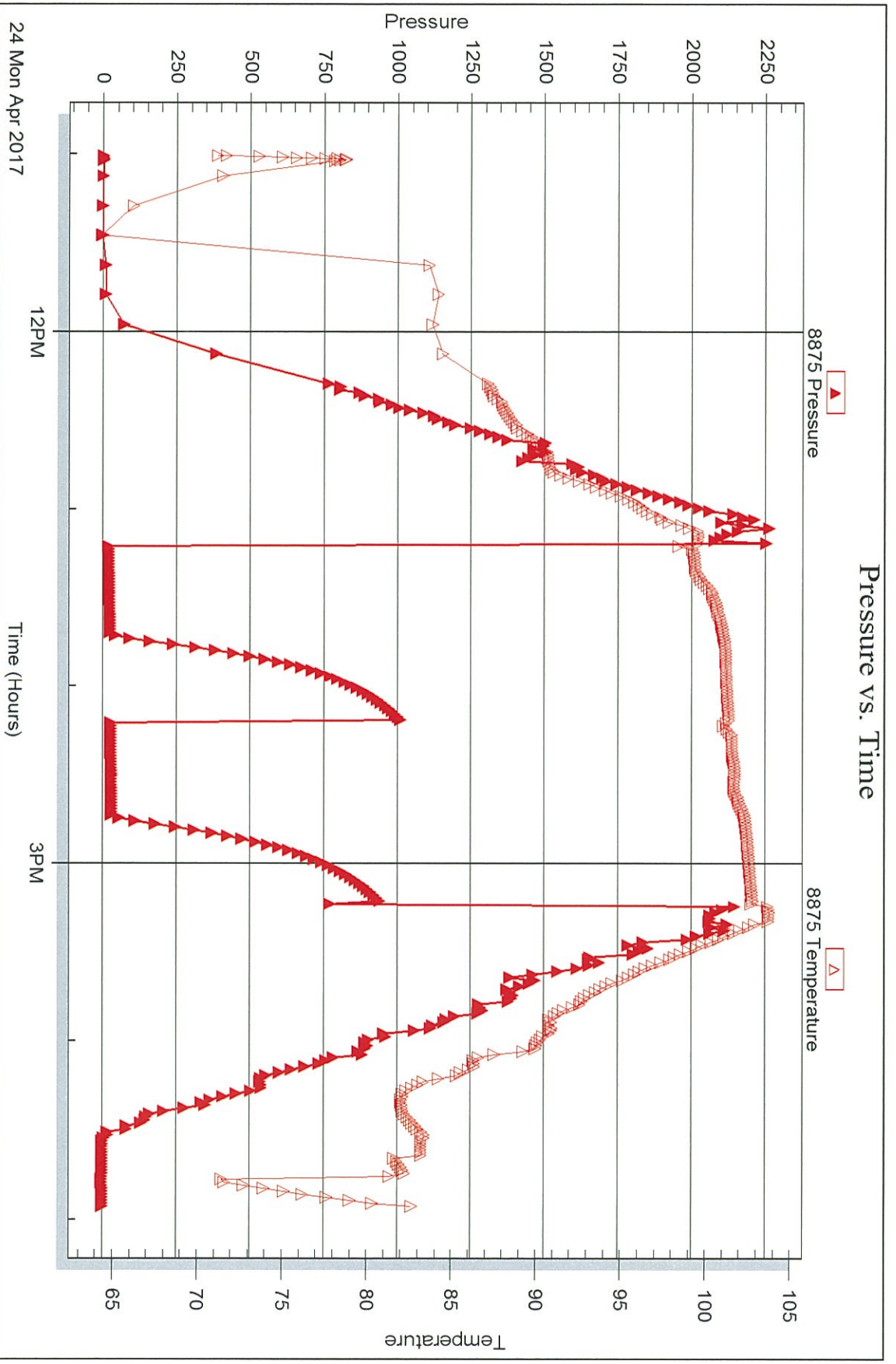


Serial #: 8875

Outside Palomino Petroleum Inc

Well #1

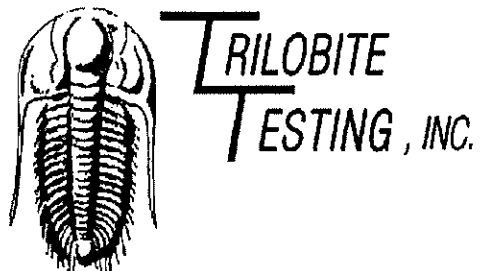
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63795

Printed: 2017.04.28 @ 10:25:49



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Berl #1

11-20s-34w Scott,KS

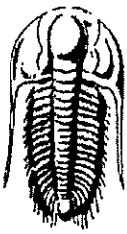
Start Date: 2017.04.25 @ 06:22:39

End Date: 2017.04.25 @ 13:07:09

Job Ticket #: 63796 DST #: 4

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

Printed: 2017.04.28 @ 10:25:18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

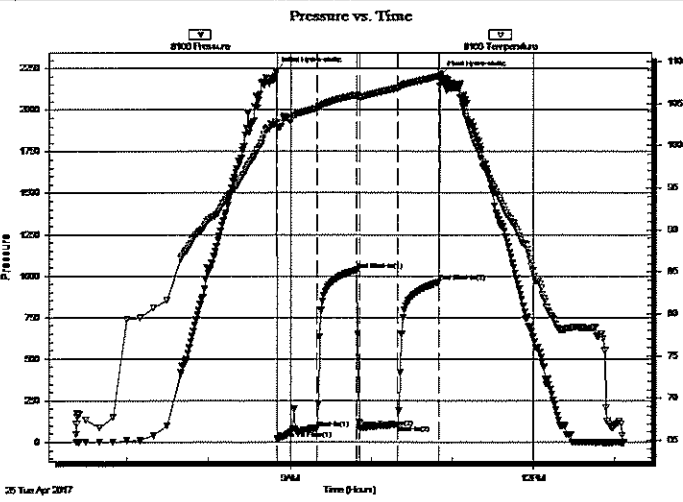
11-20s-34w Scott, KS
Berl #1
Job Ticket: 63796 **DST#: 4**
Test Start: 2017.04.25 @ 06:22:39

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:50:09
Time Test Ended: 13:07:09
Interval: **4447.00 ft (KB) To 4530.00 ft (KB) (TVD)**
Total Depth: **4530.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Brandon Turley**
Unit No: **70**
Reference Elevations: **3039.00 ft (KB)**
3034.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8166 Inside
Press@RunDepth: **106.01 psig @ 4448.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2017.04.25** End Date: **2017.04.25** Last Calib.: **2017.04.25**
Start Time: **06:22:44** End Time: **13:07:08** Time On Btm: **2017.04.25 @ 08:49:09**
Time Off Btm: **2017.04.25 @ 10:51:39**

TEST COMMENT: IF: 1/4" blow built to 3 1/2"
IS: No return.
FF: Surface blow built to 3"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.93	102.73	Initial Hydro-static
1	18.69	102.12	Open To Flow (1)
31	83.26	104.41	Shut-in(1)
60	1034.46	105.98	End Shut-In(1)
62	86.26	105.64	Open To Flow (2)
91	106.01	106.84	Shut-In(2)
121	961.49	108.23	End Shut-In(2)
123	2213.31	108.27	Final Hydro-static

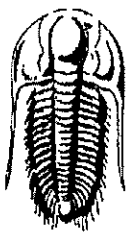
Recovery

Length (ft)	Description	Volume (bbl)
124.00	w cm 5%w 95%m	0.65
62.00	mud oil spots 100%m	0.87

* 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

ATTN: Andrew Stenzel

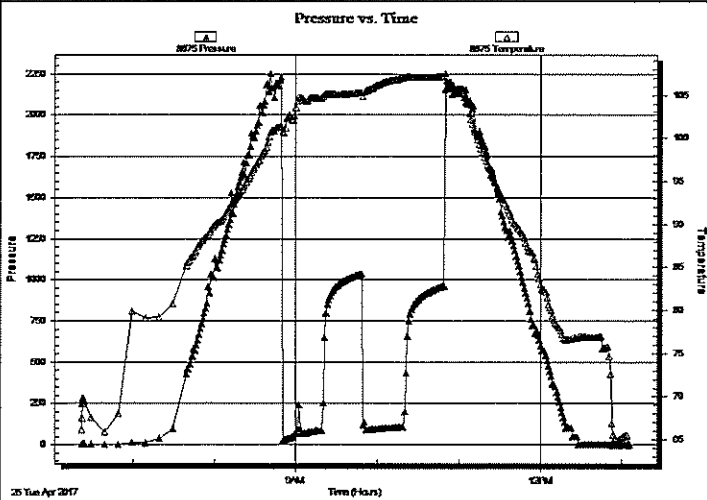
11-20s-34w Scott,KS
Berl #1
Job Ticket: 63796 **DST#: 4**
Test Start: 2017.04.25 @ 06:22:39

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:50:09
Time Test Ended: 13:07:09
Interval: **4447.00 ft (KB) To 4530.00 ft (KB) (TVD)**
Total Depth: **4530.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Brandon Turley**
Unit No: **70**
Reference Elevations: **3039.00 ft (KB)**
3034.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 8875 **Outside**
Press@RunDepth: psig @ **4448.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: 2017.04.25 End Date: 2017.04.25 Last Calib.: 2017.04.25
Start Time: 06:22:09 End Time: 13:06:33 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 3 1/2"
IS: No return.
FF: Surface blow built to 3"
FS: No return.



PRESSURE SUMMARY

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

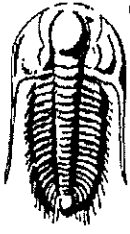
Recovery

Length (ft)	Description	Volume (bbl)
124.00	w cm 5%w 95% m	0.65
62.00	mud oil spots 100% m	0.87

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

11-20s-34w Scott, KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63796

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2017.04.25 @ 06:22:39

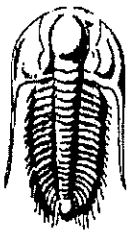
Tool Information

Drill Pipe:	Length: 4316.00 ft	Diameter: 3.80 inches	Volume: 60.54 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			Total Volume: 61.13 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4447.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	110.00 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			4421.00	
Shut In Tool	5.00			4426.00	
Hydraulic tool	5.00			4431.00	
Jars	5.00			4436.00	
Safety Joint	2.00			4438.00	
Packer	5.00			4443.00	27.00 Bottom Of Top Packer
Packer	4.00			4447.00	
Stubb	1.00			4448.00	
Recorder	0.00	8166	Inside	4448.00	
Recorder	0.00	8875	Outside	4448.00	
Perforations	13.00			4461.00	
Change Over Sub	1.00			4462.00	
Drill Pipe	62.00			4524.00	
Change Over Sub	1.00			4525.00	
Bullnose	5.00			4530.00	83.00 Bottom Packers & Anchor

Total Tool Length: 110.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63796

DST#: 4

ATTN: Andrew Stenzel

Test Start: 2017.04.25 @ 06:22:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	w cm 5%w 95%m	0.646
62.00	mud oil spots 100%m	0.870

Total Length: 186.00 ft Total Volume: 1.516 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

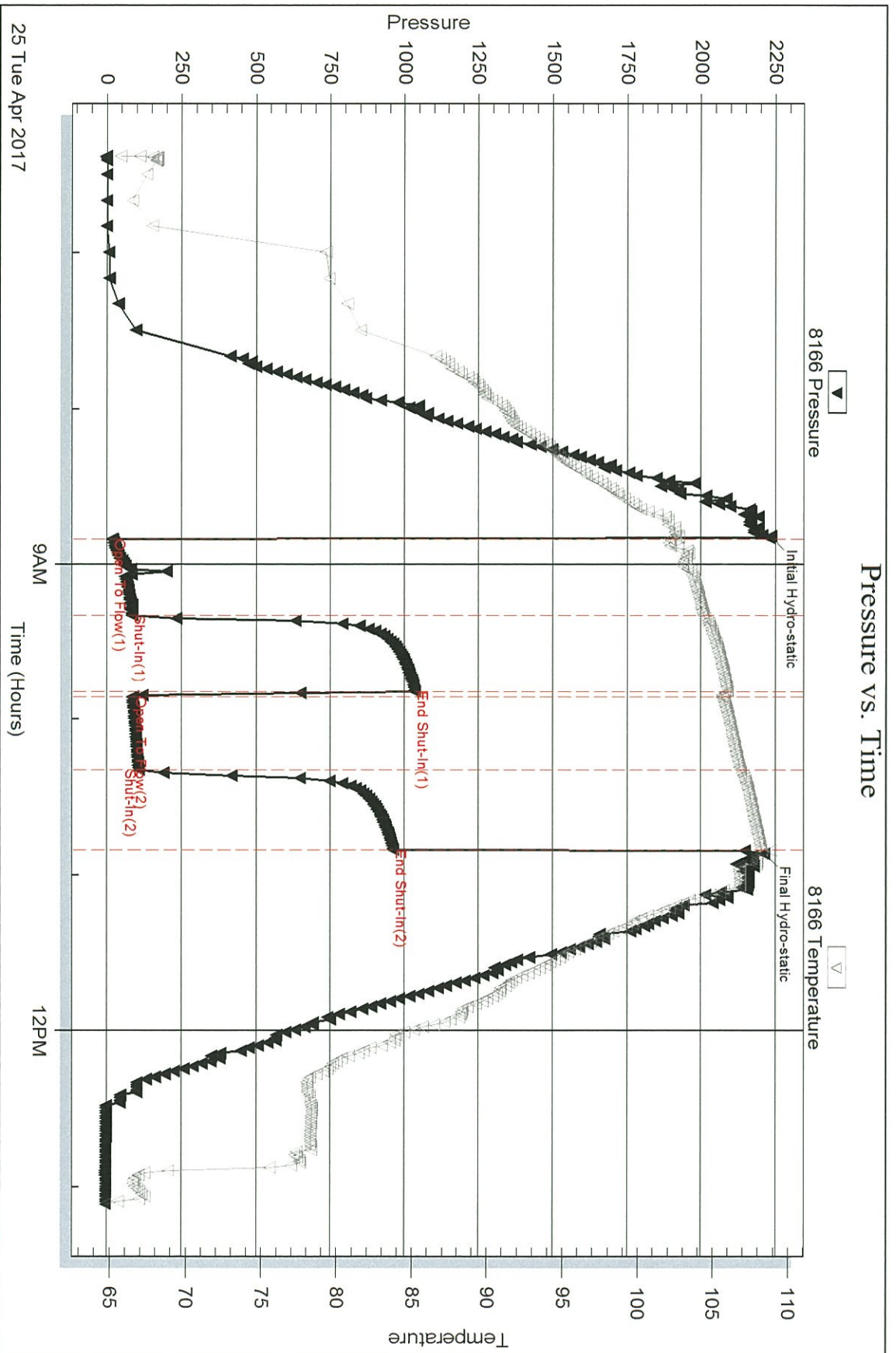
Serial #: 8166

Inside

Palomino Petroleum Inc

Berl #1

DST Test Number: 4



Tribble Testing, Inc

Ref. No: 63796

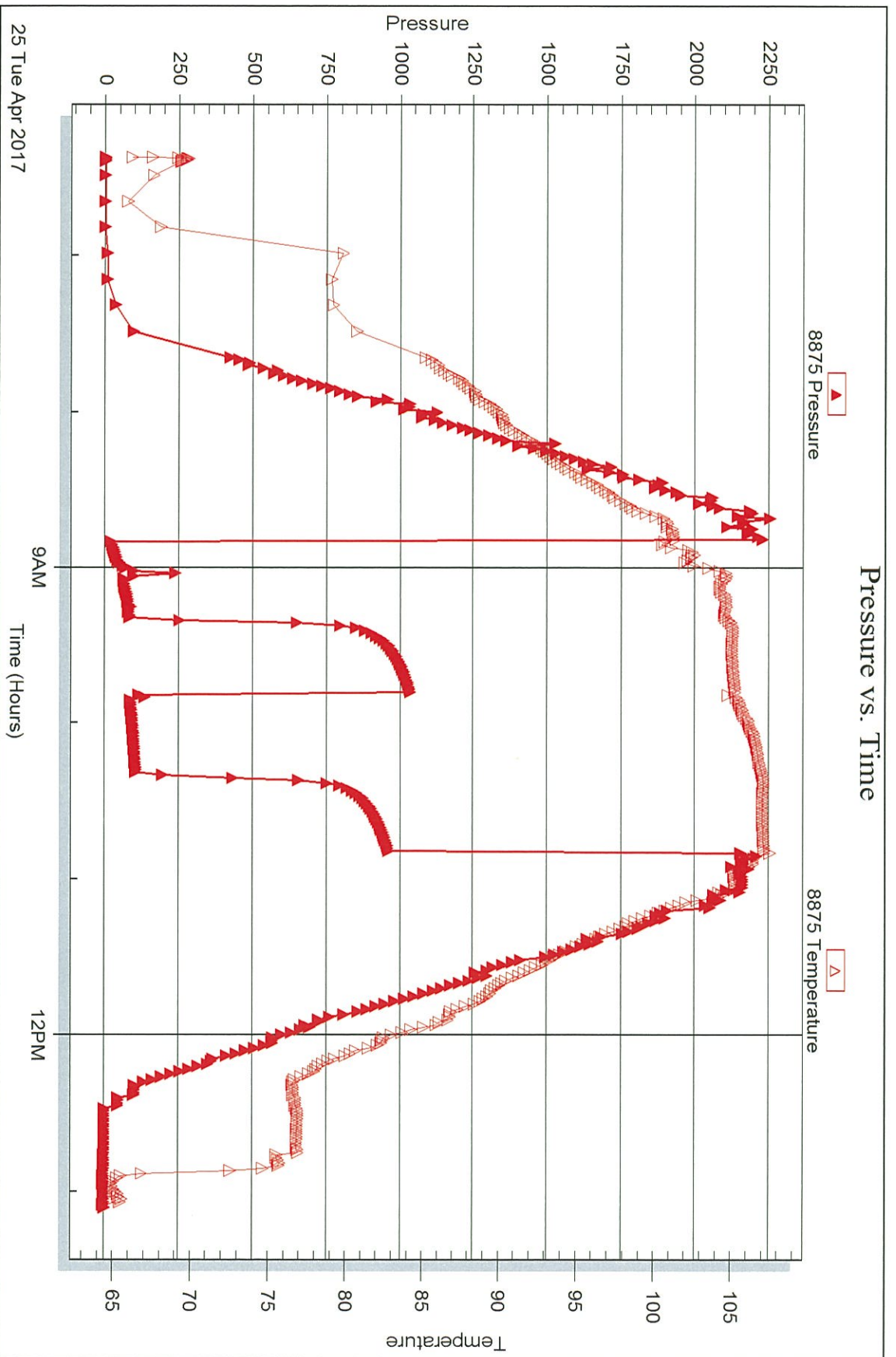
Printed: 2017.04.28 @ 10:25:18

Serial #: 8875

Outside Palomino Petroleum Inc

Berl #1

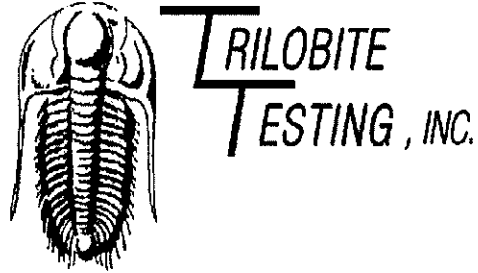
DST Test Number: 4



Trioblite Testing, Inc

Ref. No: 63796

Printed: 2017.04.28 @ 10:25:18



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Berl #1

11-20s-34w Scott,KS

Start Date: 2017.04.26 @ 00:47:41

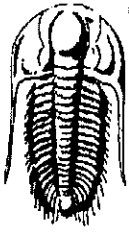
End Date: 2017.04.26 @ 08:12:11

Job Ticket #: 63797 DST #: 5

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

Printed: 2017.04.28 @ 10:18:19

Palomino Petroleum Inc 11-20s-34w Scott,KS Berl #1 DST # 5 Pawnee - Ft Scott 2017.04.26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63797

DST#: 5

ATTN: Andrew Stenzel

Test Start: 2017.04.26 @ 00:47:41

GENERAL INFORMATION:

Formation: **Pawnee - Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:54:11

Time Test Ended: 08:12:11

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 70

Interval: **4524.00 ft (KB) To 4595.00 ft (KB) (TVD)**

Total Depth: 4595.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3039.00 ft (KB)

3034.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8166

Inside

Press@RunDepth: 78.90 psig @ 4525.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.26

End Date:

2017.04.26

Last Calib.: 2017.04.26

Start Time: 00:47:46

End Time:

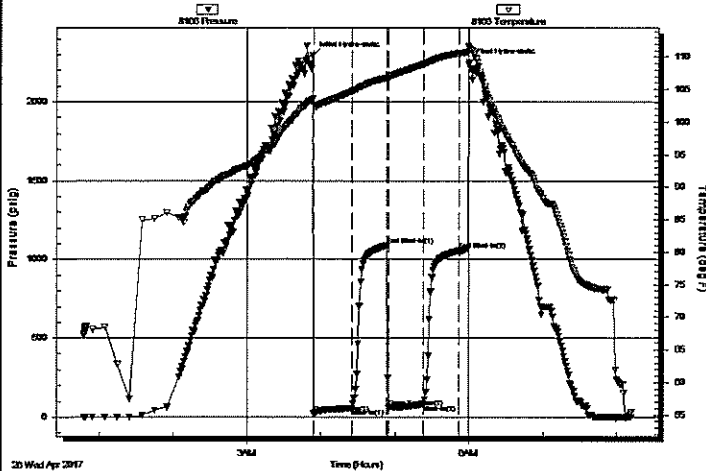
08:12:10

Time On Btm: 2017.04.26 @ 03:53:41

Time Off Btm: 2017.04.26 @ 06:00:11

TEST COMMENT: IF: BOB in 15 min.
IS: Surface blow built to 1 1/2"
FF: BOB in 8 min.
FS: Surface blow built to 5"

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2292.11	103.48	Initial Hydro-static
1	21.40	102.68	Open To Flow (1)
31	54.56	104.72	Shut-in(1)
60	1086.00	106.82	End Shut-In(1)
61	61.15	107.18	Open To Flow (2)
89	78.90	108.87	Shut-In(2)
119	1054.77	110.57	End Shut-In(2)
127	2252.44	111.32	Final Hydro-static

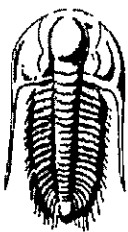
Recovery

Length (ft)	Description	Volume (bbl)
36.00	go 10%g 90%o	0.18
93.00	gocm 10%g 10%o 80%m	0.54
62.00	gocm 20%g 10%o 70%m	0.87
0.00	801 GIP	0.00

* 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

ATTN: Andrew Stenzel

11-20s-34w Scott,KS
Berl #1
Job Ticket: 63797 **DST#: 5**
Test Start: 2017.04.26 @ 00:47:41

GENERAL INFORMATION:

Formation: Pawnee - Ft Scott	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Brandon Turley
Time Tool Opened: 03:54:11	Unit No: 70
Time Test Ended: 08:12:11	Reference Elevations: 3039.00 ft (KB)
Interval: 4524.00 ft (KB) To 4595.00 ft (KB) (TVD)	3034.00 ft (CF)
Total Depth: 4595.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good

Serial #: 8875	Outside	Capacity: 8000.00 psig
Press@RunDepth: psig @ 4525.00 ft (KB)		Last Calib.: 2017.04.26
Start Date: 2017.04.26	End Date: 2017.04.26	Time On Btm:
Start Time: 00:47:34	End Time: 08:11:28	Time Off Btm:

TEST COMMENT: IF: BOB in 15 min.
IS: Surface blow built to 1 1/2"
FF: BOB in 8 min.
FS: Surface blow built to 5"

PRESSURE SUMMARY

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

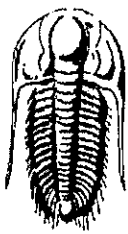
Recovery

Length (ft)	Description	Volume (bbl)
36.00	go 10%g 90%o	0.18
93.00	gocm 10%g 10%o 80%m	0.54
62.00	gocm 20%g 10%o 70%m	0.87
0.00	801 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

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63797

DST#: 5

ATTN: Andrew Stenzel

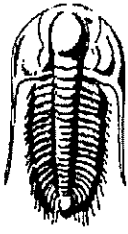
Test Start: 2017.04.26 @ 00:47:41

Tool Information

Drill Pipe:	Length: 4407.00 ft	Diameter: 3.80 inches	Volume: 61.82 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 750000.0 lb
			<u>Total Volume: 62.41 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4524.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	71.00 ft			
Tool Length:	98.00 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			4498.00	
Shut In Tool	5.00			4503.00	
Hydraulic tool	5.00			4508.00	
Jars	5.00			4513.00	
Safety Joint	2.00			4515.00	
Packer	5.00			4520.00	27.00 Bottom Of Top Packer
Packer	4.00			4524.00	
Stubb	1.00			4525.00	
Recorder	0.00	8166	Inside	4525.00	
Recorder	0.00	8875	Outside	4525.00	
Perforations	1.00			4526.00	
Change Over Sub	1.00			4527.00	
Drill Pipe	62.00			4589.00	
Change Over Sub	1.00			4590.00	
Bullnose	5.00			4595.00	71.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

11-20s-34w Scott,KS

4924 SE 84th St
New ton, KS 67114

Berl #1

Job Ticket: 63797

DST#: 5

ATTN: Andrew Stenzel

Test Start: 2017.04.26 @ 00:47:41

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 31 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.99 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 6000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
36.00	go 10%g 90%o	0.177
93.00	gocm 10%g 10%o 80%m	0.539
62.00	gocm 20%g 10%o 70%m	0.870
0.00	801 GIP	0.000

Total Length: 191.00 ft Total Volume: 1.586 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: 29@40=31

Serial #: 8166

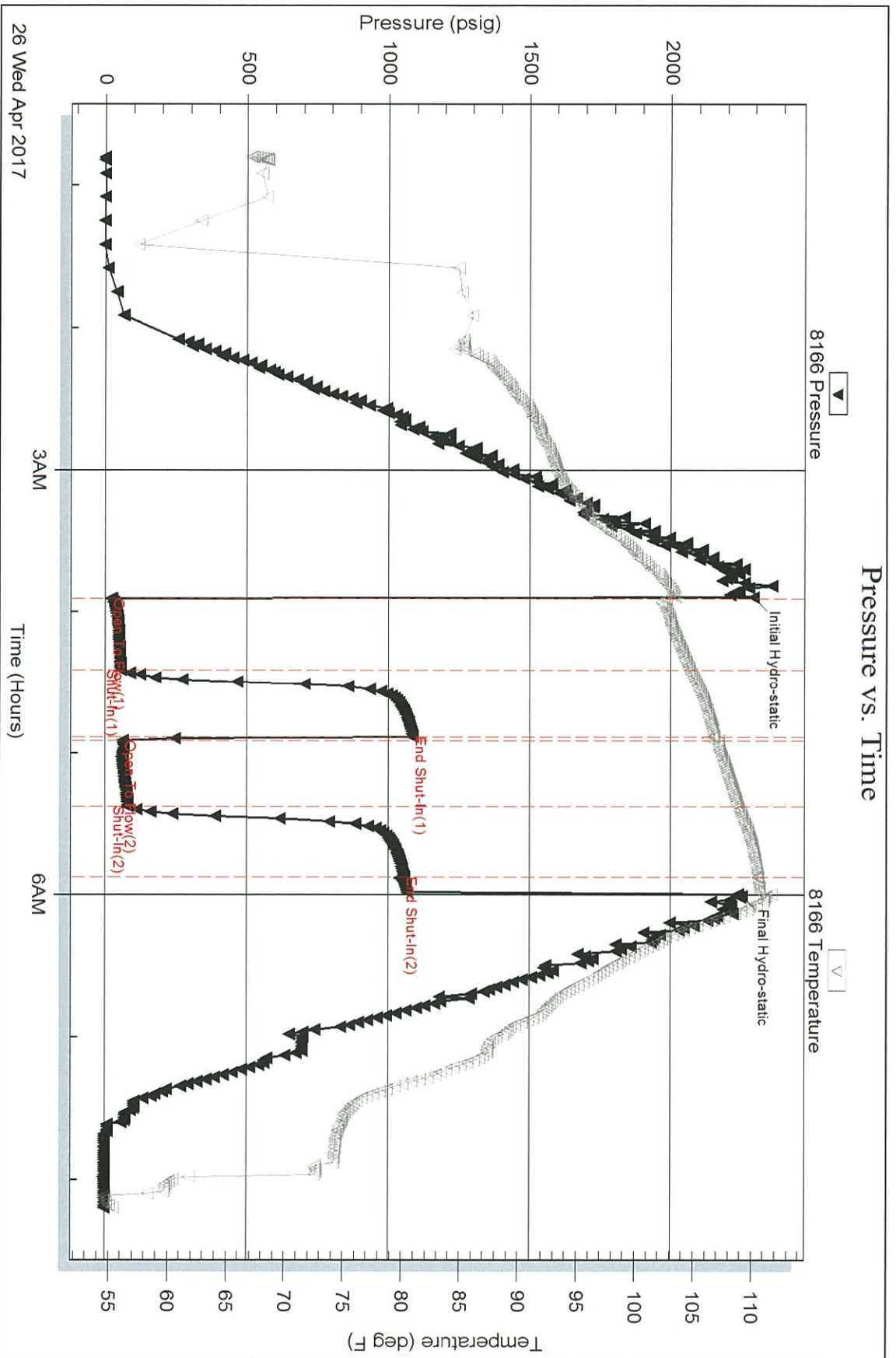
Inside

Palomino Petroleum Inc

Berl #1

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63797

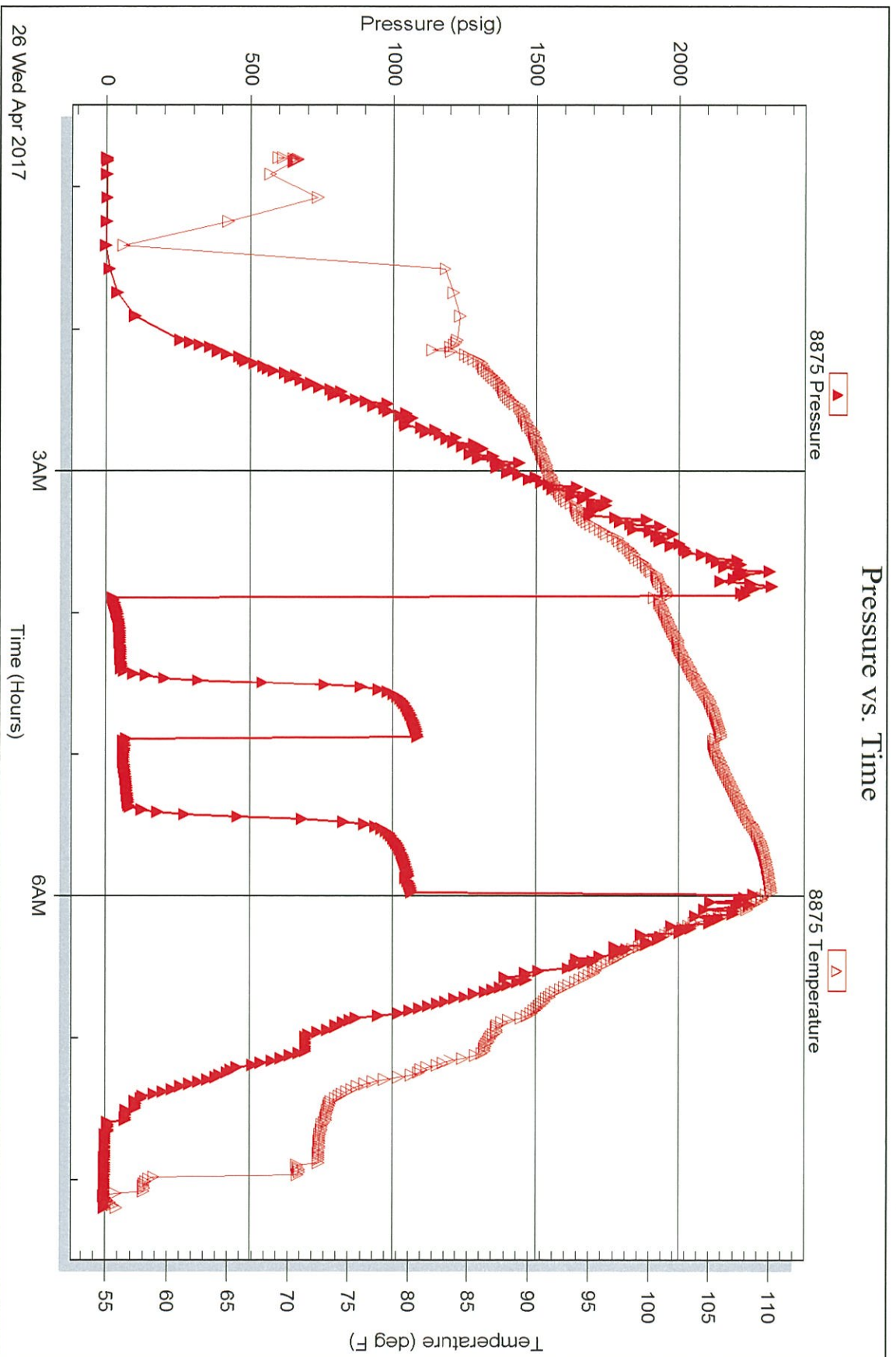
Printed: 2017.04.28 @ 10:24:30

Serial #: 8875

Outside Palomino Petroleum Inc

Berl #1

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63793**

4/10

Well Name & No. Berl #1 Test No. 1 Date 4-22-17
 Company Palomino Petroleum Inc Elevation 3039 KB 3034 GL
 Address 4924 SE 84th St Newton KS, 67114
 Co. Rep / Geo. Andrew Stenzel Rig WW #2
 Location: Sec. 11 Twp. 20S Rge. 34W Co. Scott State KS

Interval Tested 4165 4214 Zone Tested LKC - H
 Anchor Length 49 Drill Pipe Run 4030 Mud Wt. 9.0
 Top Packer Depth 4160 Drill Collars Run 120 Vis 53
 Bottom Packer Depth 4165 Wt. Pipe Run — WL 7.2
 Total Depth 4214 Chlorides 4000 ppm System LCM 2

Blow Description IF: BOB in 16 min,
FS: No return.
FF: BOB in 19 min,
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>155</u>	<u>wcm</u>		<u>30</u>	<u>70</u>	
<u>124</u>	<u>MLW</u>		<u>80</u>	<u>20</u>	
<u>186</u>	<u>MLW</u>		<u>95</u>	<u>5</u>	
	<u>#25</u>				
	<u>67 ppm</u>				

Rec Total 465 BHT 113 Gravity — API RW 29 @ 38 °F Chlorides 46,000 ppm

(A) Initial Hydrostatic 2078 Test 1150 T-On Location 16:40
 (B) First Initial Flow 21 Jars 250 T-Started 16:44
 (C) First Final Flow 140 Safety Joint 75 T-Open 20:50
 (D) Initial Shut-In 1028 Circ Sub N/C T-Pulled 22:50
 (E) Second Initial Flow 146 Hourly Standby — T-Out 1:24
 (F) Second Final Flow 224 Mileage 42 - 31.50 Comments —
 (G) Final Shut-In 1018 Sampler —
 (H) Final Hydrostatic 2034 Straddle —
 Ruined Shale Packer —
 Ruined Packer —

Initial Open 30 Extra Packer —
 Initial Shut-In 30 Extra Recorder — Sub Total 0
 Final Flow 30 Day Standby — Total 1506.50
 Final Shut-In 30 Accessibility — MP/DST Disc't —
 Sub Total 1506.50

Approved By — Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63794**

Well Name & No. Berl #1 Test No. 2 Date 4-23-17
 Company Palomino Petroleum inc Elevation 3039 KB 3034 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig WW#2
 Location: Sec. 11 Twp. 20S Rge. 34W Co. Scott State KS

Interval Tested 4215 4243 Zone Tested IF
 Anchor Length _____ 28 Drill Pipe Run 4093 Mud Wt. 9.2
 Top Packer Depth _____ 4210 Drill Collars Run 120 Vis 46
 Bottom Packer Depth _____ 4215 Wt. Pipe Run _____ WL 8.0
 Total Depth _____ 4243 Chlorides 5000 ppm System LCM 1

Blow Description IF: BoB in 4 min.
IS: No return.
FF: BoB in 6 min.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>236</u>	<u>mcw</u>		<u>90</u>	<u>10</u>	
<u>696</u>	<u>water</u>		<u>100</u>		
____	____				
____	<u>H25 40 ppm</u>				
____	____				

Rec Total 932 BHT 114 Gravity _____ API RW .29 @ 70 ° F Chlorides 25,000 ppm

(A) Initial Hydrostatic <u>2113</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>8:30</u>
(B) First Initial Flow <u>49</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:22</u>
(C) First Final Flow <u>244</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:38</u>
(D) Initial Shut-In <u>1016</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>13:28</u>
(E) Second Initial Flow <u>242</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>15:50</u>
(F) Second Final Flow <u>450</u>	<input checked="" type="checkbox"/> Mileage <u>42-</u> <u>31.50</u>	Comments _____
(G) Final Shut-In <u>984</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2063</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 20
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1506.50

Sub Total _____
 Total 1506.50
 MP/DST Disc't _____

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63795**

4/10

Well Name & No. Berl #1 Test No. 3 Date 4-24-17
 Company Atomino Petroleum Elevation 3039 KB 3034 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig WW #2
 Location: Sec. 11 Twp. 205 Rge. 34W Co. Scott State KS

Interval Tested 4336 4420 Zone Tested LKC L
 Anchor Length _____ Drill Pipe Run 4219 Mud Wt. 9.4
 Top Packer Depth _____ Drill Collars Run 120 Vis 50
 Bottom Packer Depth 4336 Wt. Pipe Run _____ WL 9.6
 Total Depth 4420 Chlorides 6000 ppm System LCM 1

Blow Description IF! 1/4 blow died in 6 min.
FS! No return.
FF! No blow.
FS! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 163 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2252</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:40</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:00</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:12</u>
(D) Initial Shut-In <u>1013</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>15:12</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:00</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>42</u> 31.50	Comments _____
(G) Final Shut-In <u>943</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2164</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____

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

Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1506.50

Sub Total 1506.50

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63796**

Well Name & No. Berl #1 Test No. 4 Date 4-25-17
 Company Palomino Petroleum Elevation 3039 KB 3034 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig WW #2
 Location: Sec. 11 Twp. 20S Rge. 34W Co. Scott State KS

Interval Tested 4447 4530 Zone Tested Marinton
 Anchor Length 83 Drill Pipe Run 4316 Mud Wt. 9.4
 Top Packer Depth 4442 Drill Collars Run 120 Vis 50
 Bottom Packer Depth 4447 Wt. Pipe Run _____ WL 9.6
 Total Depth 4530 Chlorides 6000 ppm System LCM 1

Blow Description IF: 1/4 blow built to 3 1/2.
IS: No return.
FF: surface blow built to 3.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>mud oil spots</u>			<u>100</u>	
<u>124</u>	<u>wcm</u>		<u>5</u>	<u>95</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 186 BHT 108 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2234</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>5:40</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>6:22</u>
(C) First Final Flow <u>83</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>8:48</u>
(D) Initial Shut-In <u>1034</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>10:48</u>
(E) Second Initial Flow <u>86</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>13:07</u>
(F) Second Final Flow <u>106</u>	<input checked="" type="checkbox"/> Mileage <u>42-</u> 31.50	Comments _____
(G) Final Shut-In <u>961</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2213</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____

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

Sub Total 1506.50

Approved By Andrew Stenzel Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63797**

Well Name & No. Berl #1 Test No. 5 Date 4-26-17
 Company Palomino Petroleum Elevation 3039 KB 3034 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig WW #2
 Location: Sec. 11 Twp. 205 Rge. 34W Co. Scott State KS

Interval Tested 4524 4595 Zone Tested Pawnee - Ft Scott
 Anchor Length 71 Drill Pipe Run 4407 Mud Wt. 9.3
 Top Packer Depth 4519 Drill Collars Run 120 Vis 49
 Bottom Packer Depth 4524 Wt. Pipe Run _____ WL 8.0
 Total Depth 4595 Chlorides 6000 ppm System LCM 1

Blow Description IF: BoB in 15 min.
FS: Surface blow built to 1 1/2.
IF: BoB in 8 min.
FS: Surface blow built to 5.

Rec	Feet of	%gas	%oil	%water	%mud
<u>36</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>93</u>	<u>90cm</u>	<u>10</u>	<u>10</u>	<u>80</u>	
<u>62</u>	<u>90cm</u>	<u>20</u>	<u>10</u>	<u>70</u>	
Rec _____	Feet of <u>800 GIP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 191 BHT 110 Gravity 31 API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2292</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>00:10</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>00:47</u>
(C) First Final Flow <u>54</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:52</u>
(D) Initial Shut-In <u>1086</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>5:52</u>
(E) Second Initial Flow <u>61</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>8:14</u>
(F) Second Final Flow <u>78</u>	<input checked="" type="checkbox"/> Mileage <u>42-x2</u> 63	Comments <u>loaded at 9:00h</u>
(G) Final Shut-In <u>1054</u>	<input type="checkbox"/> Sampler _____	<u>4-27-17</u>
(H) Final Hydrostatic <u>2252</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

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

Sub Total 1538
 Total 1538
 MP/DST Disc't _____

Approved By Andrew Stenzel Our Representative _____

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