



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 11/25/2015
 Invoice # 1928
 P.O.#:
 Due Date: 12/25/2015
 Division: Russell

RECEIVED
 DEC 02 2015

Invoice

Contact:
 Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
 Newton Ks 67114

Reference:
 BROWNIE 3

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 606.13	No				
Common-Class A	120	\$ 1,652.19	Yes				
Calcium Chloride	6	\$ 276.99	Yes				
POZ Mix-Standard	30	\$ 174.18	Yes				
Bulk Truck Matl-Material Service Charge	159	\$ 131.88	No				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 114.04	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 72.57	No				
Premium Gel (Bentonite)	3	\$ 40.51	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,068.49
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (76.71)

SubTotal for Taxable Items:	\$ 2,090.27
SubTotal for Non-Taxable Items:	\$ 901.51
Total:	\$ 2,991.78
Tax:	\$ 177.67

8.50% Gove County Sales Tax

Thank You For Your Business!

Amount Due: \$ 3,169.45
Applied Payments:
Balance Due: \$ 3,169.45

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1928

Date <u>11-25-15</u>	Sec. <u>7</u>	Twp. <u>14</u>	Range <u>30</u>	County <u>Leaw</u>	State <u>KS</u>	On Location	Finish <u>12:00pm</u>
Location <u>Cove 10W 22 RD 65 LR2 Finto</u>							

Lease <u>Browne</u>	Well No. <u>3</u>	Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor <u>WWS#12</u>		Charge To <u>Palomino Petroleum</u>
Type Job <u>Surface</u>		
Hole Size <u>12 1/4</u>	T.D. <u>212</u>	
Csg. <u>8 5/8</u>	Depth <u>212</u>	
Tbg. Size	Depth	Street
Tool	Depth	City
Cement Left in Csg. <u>15'</u>	Shoe Joint	State
		The above was done to satisfaction and supervision of owner agent or contractor.
		Cement Amount Ordered <u>150 8 5/8 20 3/4 CC 2 1/2 GEL</u>

Meas Line Displace 12 1/2 BCL

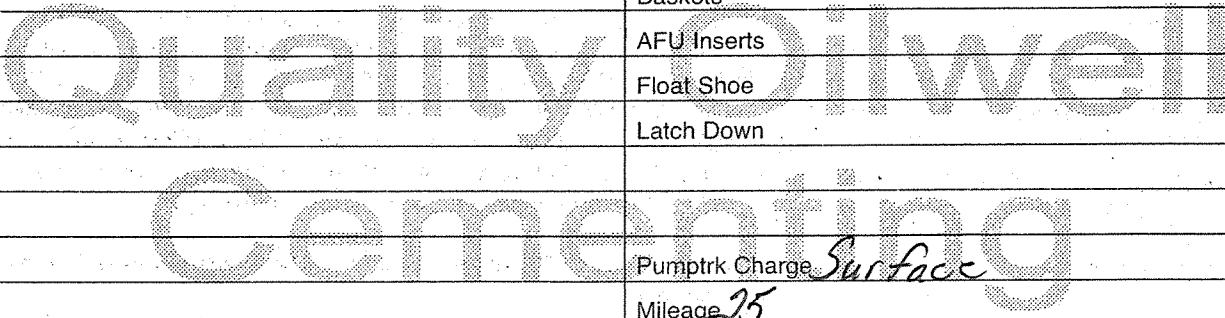
EQUIPMENT			
Pumptrk <u>20</u>	No.	Cementer <u>raig</u>	Common <u>120</u>
		Helper <u>WICK</u>	Poz. Mix <u>30</u>
Bulktrk	No.	Driver <u>WICK</u>	Gel. <u>3</u>
Bulktrk <u>21</u>	No.	Driver <u>Billy</u>	Calcium <u>6</u>

JOB SERVICES & REMARKS		
Remarks:		Hulls
Rat Hole		Salt
Mouse Hole		Flowseal
Centralizers		Kol-Seal
Baskets		Mud CLR 48
D/V or Port Collar		CFL-117 or CD110 CAF 38
<u>8 5/8 on bottom Best Circulation</u>		Sand
<u>Mix 150 SK & Displace</u>		Handling <u>159</u>
<u>Cement Circulator!</u>		Mileage

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge <u>Surface</u>
Mileage <u>25</u>

X Signature <u>[Signature]</u>	Tax
	Discount
	Total Charge



RECEIVED

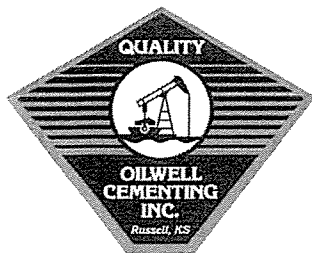
Date: 12/3/2015
Invoice # 1934

DEC 09 2015

P.O.#:

Due Date: 1/2/2016

Division: Russell



QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
Phone:785-324-1041 fax:785-483-1087
Email: cementing@ruraltel.net

Invoice

Contact:

Palomino Petroleum Inc
Address/Job Location:

4924 SE 84th
Newton Ks 67114

Reference:

BROWNIE 3

Description of Work:

PLUG JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 606.13	Yes				
Common-Class A	144	\$ 1,982.63	Yes				
POZ Mix-Standard	96	\$ 557.36	Yes				
Bulk Truck Matl-Material Service Charge	249	\$ 206.52	Yes				
Premium Gel (Bentonite)	9	\$ 121.53	Yes				
Pump Truck Mileage-Job to Nearest Camp	25	\$ 114.04	Yes				
Flo Seal	60	\$ 99.53	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	25	\$ 72.57	Yes				
Dry Hole Plug	1	\$ 46.45	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 3,806.77

Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (95.17)

SubTotal for Taxable Items: \$ 3,711.60

SubTotal for Non-Taxable Items: \$ -

Total: \$ 3,711.60

Tax: \$ 315.49

8.50% Gove County Sales Tax

Amount Due: \$ 4,027.09

Applied Payments:

Balance Due: \$ 4,027.09

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1934

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-3-15	7	14	30	Leone	KS		8:00pm
				Location <u>Leone 9w 22rd 7s Einto</u>			

Lease	<u>Brownie</u>	Well No.	<u>3</u>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<u>WW#12</u>			Charge To	<u>Palomino Petroleum</u>
Type Job	<u>Rotary Plug</u>	T.D.	<u>4597</u>		
Hole Size	<u>7 7/8</u>	Depth			
Csg.	<u>4 1/2 X-H</u>	Depth			
Tbg. Size		Depth			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered <u>240 CWT / 40 4 1/2 CWT 145#</u>	

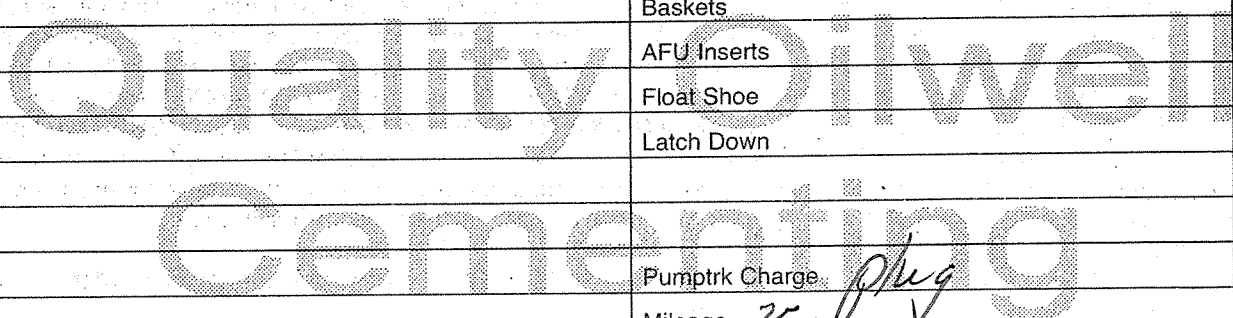
Meas Line	Displace			Common	<u>144</u>
EQUIPMENT				Poz. Mix	<u>96</u>
Pumptrk	No.	Cement Helper		Gel.	<u>9</u>
Bulktrk	No.	Driver		Calcium	
Bulktrk	No.	Driver		Hulls	
Bulktrk	No.	Driver		Salt	

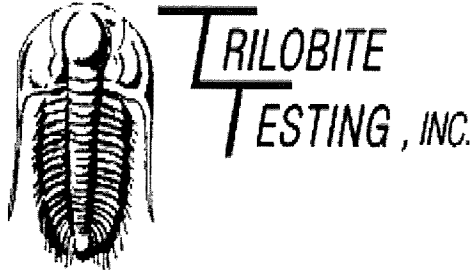
JOB SERVICES & REMARKS			Flowseal	<u>6077</u>
Remarks:			Kol-Seal	
Rat Hole	<u>30SK</u>		Mud CLR 48	
Mouse Hole			CFL-117 or CD110 CAF 38	
Centralizers			Sand	
Baskets			Handling	<u>249</u>
D/V or Port Collar			Mileage	
<u>1st</u>	<u>2270</u>	<u>50SK</u>		
<u>2nd</u>	<u>1300</u>	<u>100SK</u>		
<u>3rd</u>	<u>270</u>	<u>50SK</u>		
<u>4th</u>	<u>40</u>	<u>100SK</u>		

			FLOAT EQUIPMENT	
			Guide Shoe	
			Centralizer	<u>8 5/8 D/V 46/c Plug</u>
			Baskets	
			AFU Inserts	
			Float Shoe	
			Latch Down	

			Pumptrk Charge	<u>plug</u>
			Mileage	<u>25</u>

X Signature	<u>[Signature]</u>	Tax	
		Discount	
		Total Charge	





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton KS 67114

ATTN: Ryan Seib

Brownie #3

7-14s-30w Gove,KS

Start Date: 2015.11.28 @ 18:24:00

End Date: 2015.11.29 @ 01:46:00

Job Ticket #: 61847 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2015.12.08 @ 14:14:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

7-14s-30w Gove, KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61847

DST#: 1

ATTN: Ryan Seib

Test Start: 2015.11.28 @ 18:24:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:20:15

Time Test Ended: 01:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: **3832.00 ft (KB) To 3900.00 ft (KB) (TVD)**

Total Depth: 3900.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2779.00 ft (KB)

2771.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8677

Outside

Press@RunDepth: 94.78 psig @ 3833.00 ft (KB)

Start Date: 2015.11.28

End Date:

2015.11.29

Start Time: 18:24:05

End Time:

01:45:59

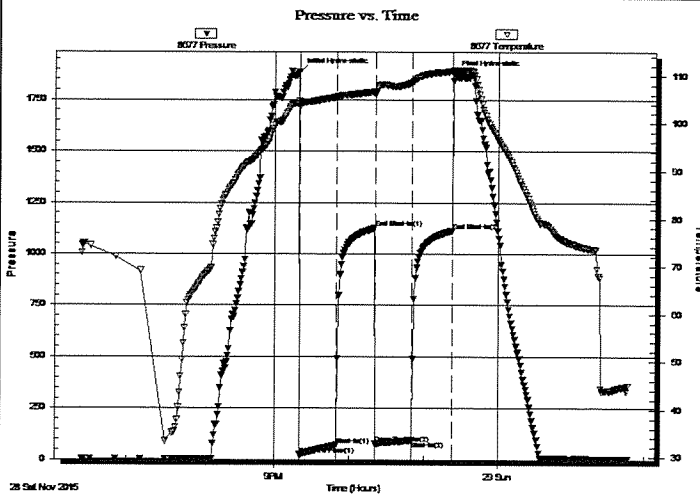
Capacity: 8000.00 psig

Last Calib.: 2015.11.29

Time On Btm: 2015.11.28 @ 21:20:00

Time Off Btm: 2015.11.28 @ 23:24:30

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: 1" blow.
FSI: No return.



PRESSURE SUMMARY

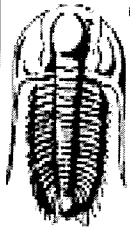
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.83	104.62	Initial Hydro-static
1	24.56	103.41	Open To Flow (1)
30	70.95	105.45	Shut-In(1)
60	1125.40	106.65	End Shut-In(1)
61	77.60	106.07	Open To Flow (2)
90	94.78	108.48	Shut-In(2)
123	1113.54	110.95	End Shut-In(2)
125	1876.10	111.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	w cm 20w 80m	1.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

7-14s-30w Gove, KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61847

DST#: 1

ATTN: Ryan Seib

Test Start: 2015.11.28 @ 18:24:00

GENERAL INFORMATION:

Formation: **Toronto - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:20:15

Time Test Ended: 01:46:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: **3832.00 ft (KB) To 3900.00 ft (KB) (TVD)**

Reference Elevations: 2779.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

2771.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 3833.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.28

End Date:

2015.11.29

Last Calib.:

2015.11.29

Start Time: 18:24:05

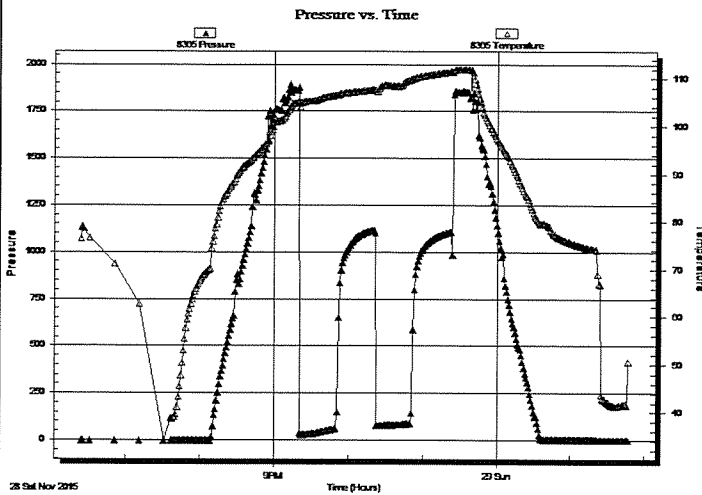
End Time:

01:46:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" blow.
IS: No return.
FF: 1" blow.
FS: No return.



PRESSURE SUMMARY

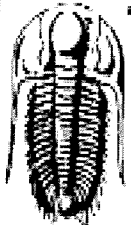
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
150.00	w cm 20w 80m	1.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

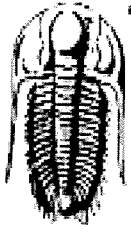
7-14s-30w Gove,KS
Brownie #3
Job Ticket: 61847 **DST#: 1**
Test Start: 2015.11.28 @ 18:24:00

Tool Information

Drill Pipe:	Length: 3702.00 ft	Diameter: 3.80 inches	Volume: 51.93 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 52.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3832.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	95.00 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			3806.00	
Shut In Tool	5.00			3811.00	
Hydraulic tool	5.00			3816.00	
Jars	5.00			3821.00	
Safety Joint	2.00			3823.00	
Packer	5.00			3828.00	27.00 Bottom Of Top Packer
Packer	4.00			3832.00	
Stubb	1.00			3833.00	
Recorder	0.00	8365	Inside	3833.00	
Recorder	0.00	8677	Outside	3833.00	
Perforations	31.00			3864.00	
Change Over Sub	1.00			3865.00	
Drill Pipe	31.00			3896.00	
Change Over Sub	1.00			3897.00	
Bullnose	3.00			3900.00	68.00 Bottom Packers & Anchor
Total Tool Length:	95.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc	7-14s-30w Gove,KS
4924 SE 84th St. New ton KS 67114	Brownie #3
ATTN: Ryan Seib	Job Ticket: 61847 DST#: 1
	Test Start: 2015.11.28 @ 18:24:00

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	w cm 20w 80m	1.002

Total Length: 150.00 ft Total Volume: 1.002 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

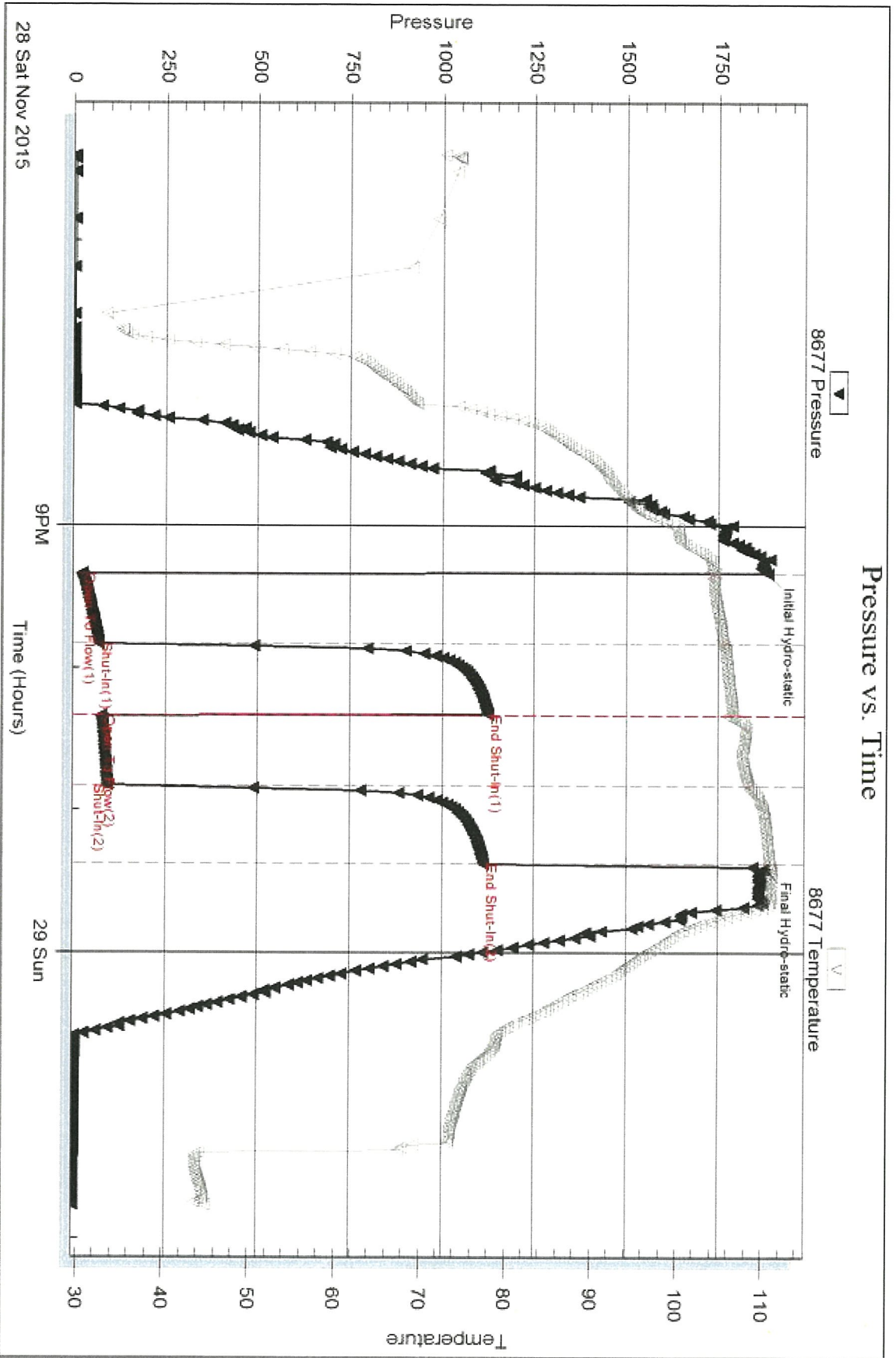
Serial #: 8677

Outside Palomino Petroleum, Inc

Brow ne #3

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 61847

Printed 2015 12:08 @ 14:14:18

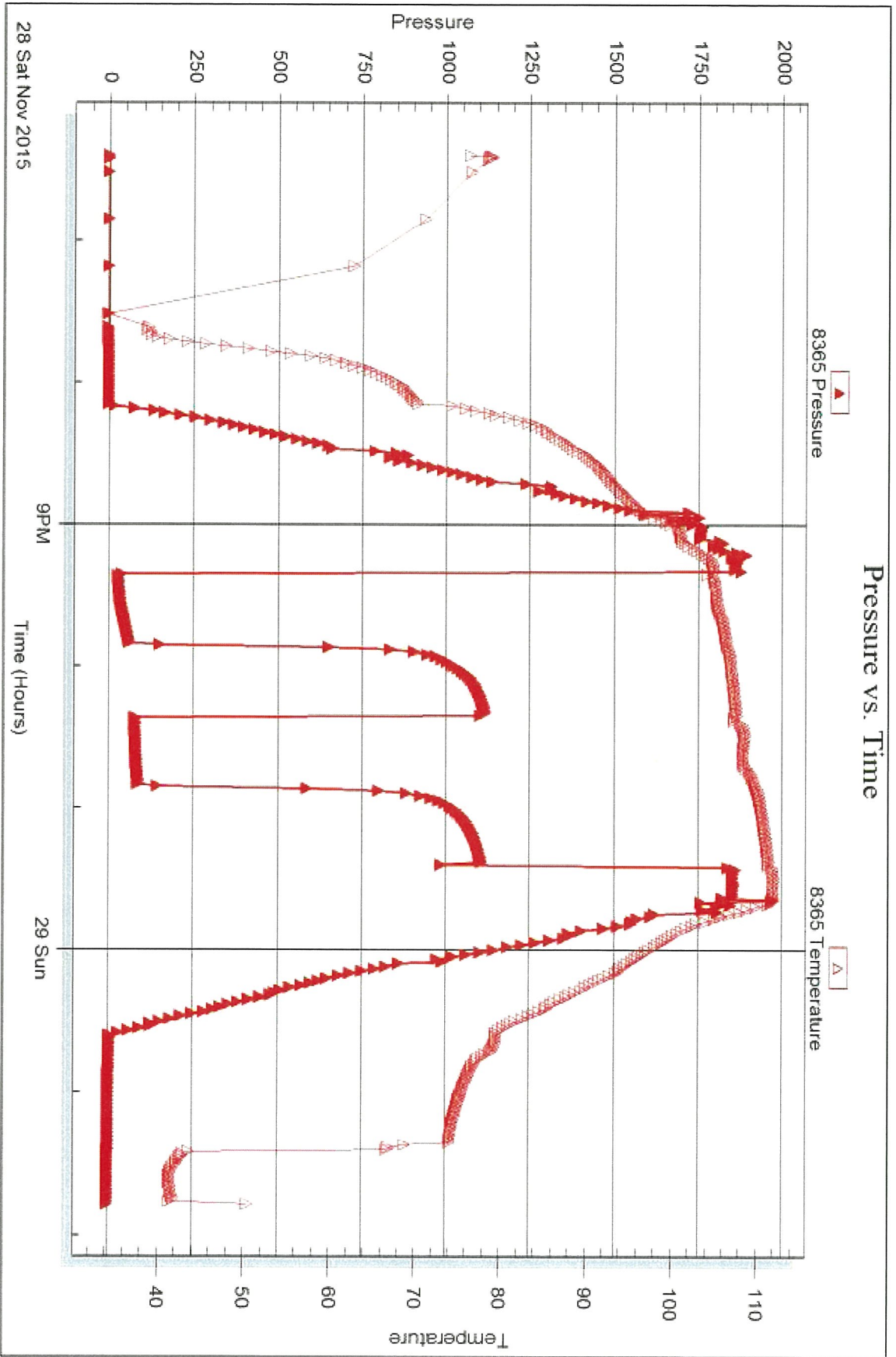
Serial #: 8365

Inside

Palomino Petroleum, Inc

Brow ne #3

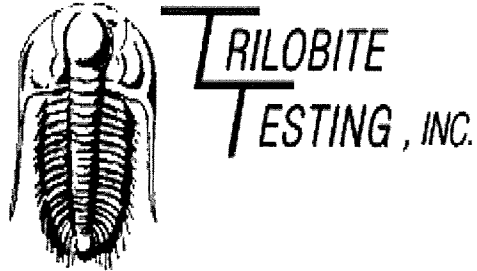
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 61847

Printed: 2015 12 08 @ 14:14:18



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton KS 67114

ATTN: Ryan Seib

Brownie #3

7-14s-30w Gove,KS

Start Date: 2015.11.29 @ 13:44:00

End Date: 2015.11.29 @ 20:17:15

Job Ticket #: 61848 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2015.12.08 @ 14:13:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

7-14s-30w Gove, KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61848

DST#: 2

ATTN: Ryan Seib

Test Start: 2015.11.29 @ 13:44:00

GENERAL INFORMATION:

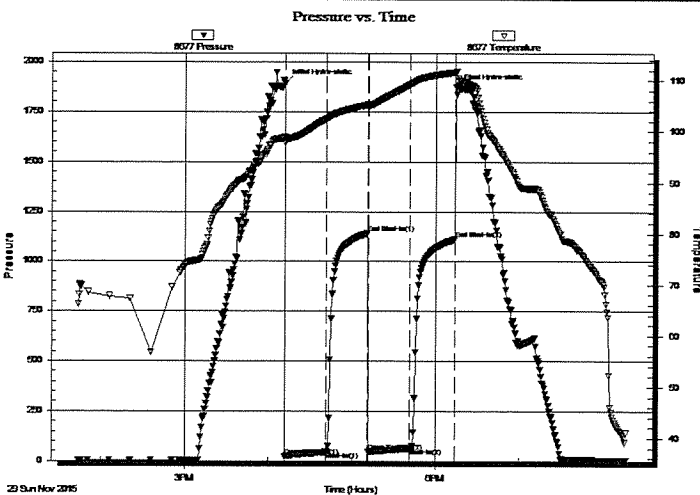
Formation: **LKC C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:12:00
 Time Test Ended: 20:17:15
 Interval: **3898.00 ft (KB) To 3940.00 ft (KB) (TVD)**
 Total Depth: 3940.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 2779.00 ft (KB)
 2771.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8677

Outside

Press@RunDepth: 64.05 psig @ 3899.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.11.29 End Date: 2015.11.29 Last Calib.: 2015.11.29
 Start Time: 13:44:05 End Time: 20:17:14 Time On Btm: 2015.11.29 @ 16:11:30
 Time Off Btm: 2015.11.29 @ 18:14:45

TEST COMMENT: IF: 1/2" blow.
 IS: No return.
 FF: Surface blow.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1891.30	98.84	Initial Hydro-static
1	24.34	97.75	Open To Flow (1)
31	45.35	102.50	Shut-In(1)
60	1141.32	105.26	End Shut-In(1)
60	47.86	104.97	Open To Flow (2)
90	64.05	109.20	Shut-In(2)
123	1111.32	111.60	End Shut-In(2)
124	1871.61	111.78	Final Hydro-static

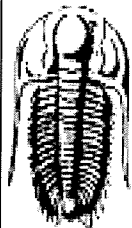
Recovery

Length (ft)	Description	Volume (bbl)
80.00	w cm 10w 90m (oil spots)	0.39

* 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

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61848

DST#: 2

ATTN: Ryan Seib

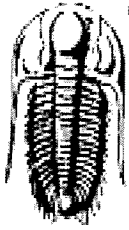
Test Start: 2015.11.29 @ 13:44:00

Tool Information

Drill Pipe:	Length: 3767.00 ft	Diameter: 3.80 inches	Volume: 52.84 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3898.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	69.00 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			3872.00	
Shut In Tool	5.00			3877.00	
Hydraulic tool	5.00			3882.00	
Jars	5.00			3887.00	
Safety Joint	2.00			3889.00	
Packer	5.00			3894.00	27.00 Bottom Of Top Packer
Packer	4.00			3898.00	
Stubb	1.00			3899.00	
Recorder	0.00	8365	Inside	3899.00	
Recorder	0.00	8677	Outside	3899.00	
Perforations	5.00			3904.00	
Change Over Sub	1.00			3905.00	
Drill Pipe	31.00			3936.00	
Change Over Sub	1.00			3937.00	
Bullnose	3.00			3940.00	42.00 Bottom Packers & Anchor
Total Tool Length:	69.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61848

DST#: 2

ATTN: Ryan Seib

Test Start: 2015.11.29 @ 13:44:00

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: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
80.00	w cm 10w 90m (oil spots)	0.393

Total Length: 80.00 ft Total Volume: 0.393 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

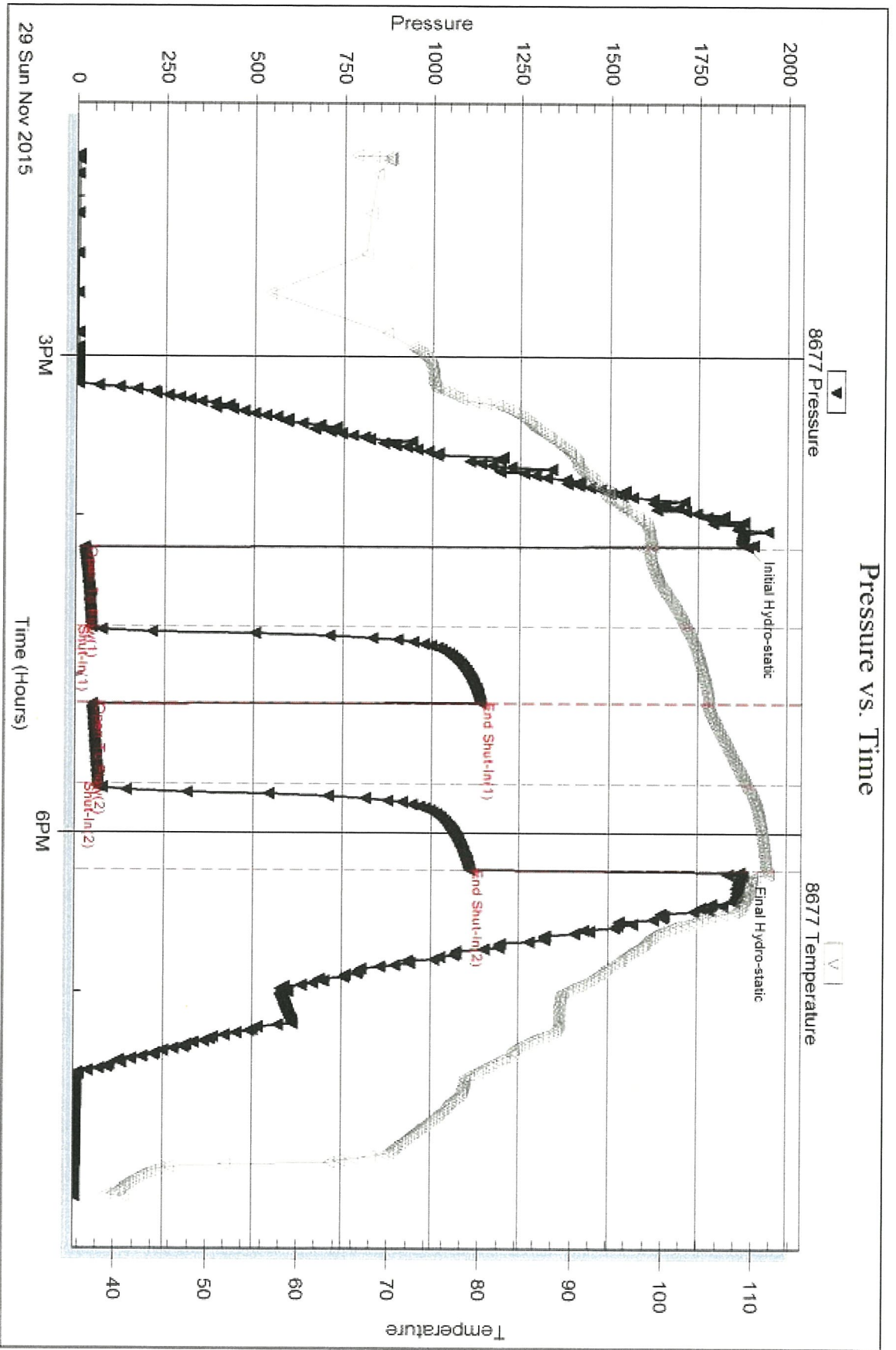
Recovery Comments:

Serial #: 8677

Outside Palomino Petroleum, Inc

Brown #3

DST Test Number: 2



Trioble Testing, Inc

Ref. No: 61848

Printed: 2015 12:08 @ 14:13:53

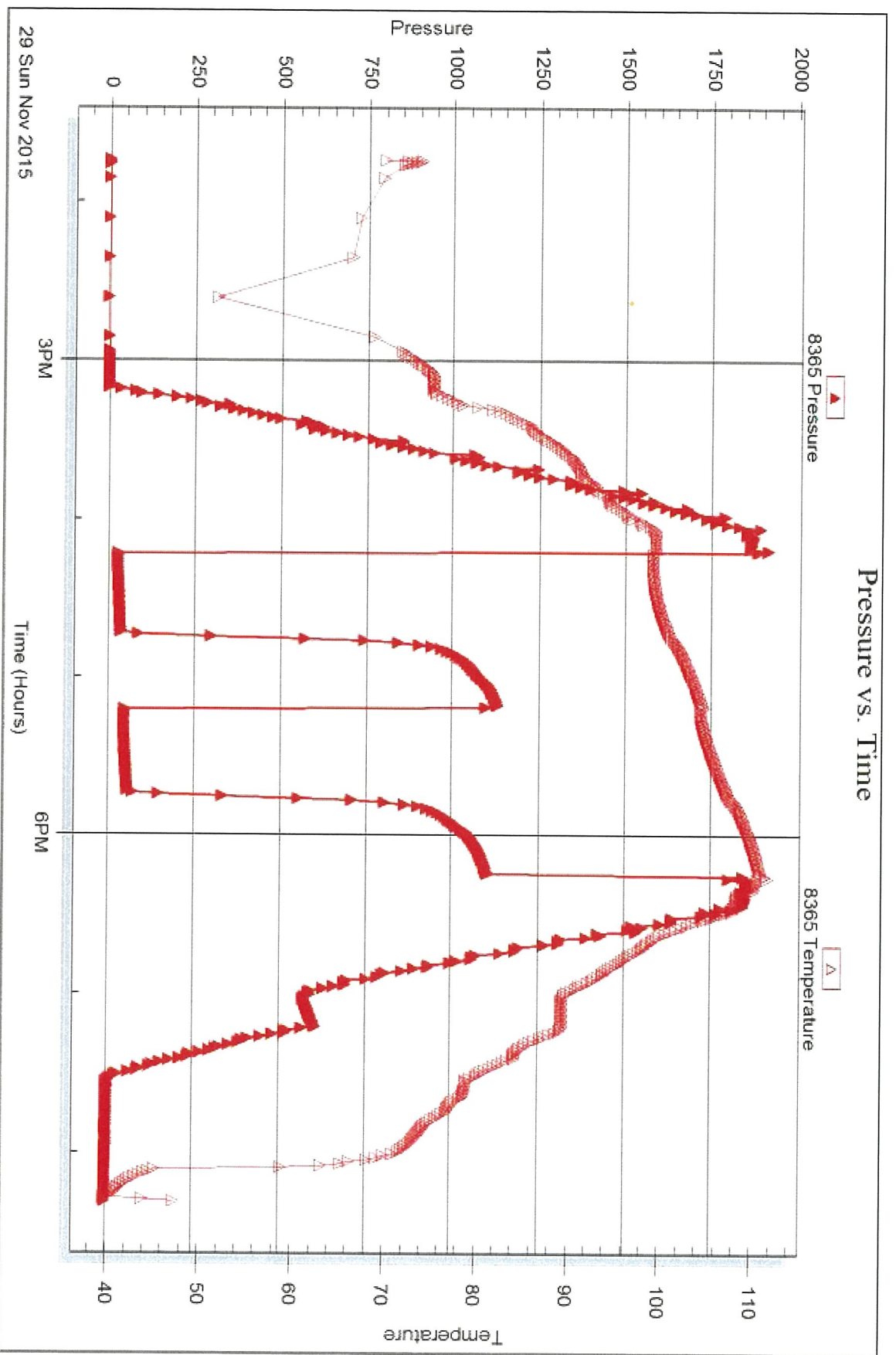
Serial #: 8365

Inside

Palomino Petroleum, Inc

Brownie #3

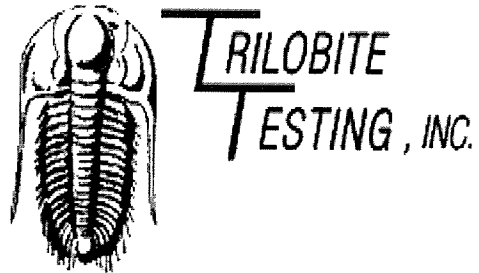
DST Test Number: 2



Tribble Testing, Inc

Ref. No: 61848

Printed 2015 12 08 @ 14:13:53



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton KS 67114

ATTN: Ryan Seib

Brownie #3

7-14s-30w Gove,KS

Start Date: 2015.11.30 @ 03:56:00

End Date: 2015.11.30 @ 10:43:00

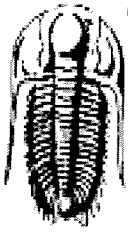
Job Ticket #: 61849 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2015.12.08 @ 14:13:20



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61849

DST#: 3

ATTN: Ryan Seib

Test Start: 2015.11.30 @ 03:56:00

GENERAL INFORMATION:

Formation: **LKC D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:54:00

Time Test Ended: 10:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **3938.00 ft (KB) To 3992.00 ft (KB) (TVD)**

Reference Elevations: 2779.00 ft (KB)

Total Depth: 3992.00 ft (KB) (TVD)

2771.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8677 Outside

Press@RunDepth: 27.54 psig @ 3939.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.11.30 End Date: 2015.11.30

Last Calib.: 2015.11.30

Start Time: 03:56:05 End Time: 10:42:59

Time On Btm: 2015.11.30 @ 06:53:30

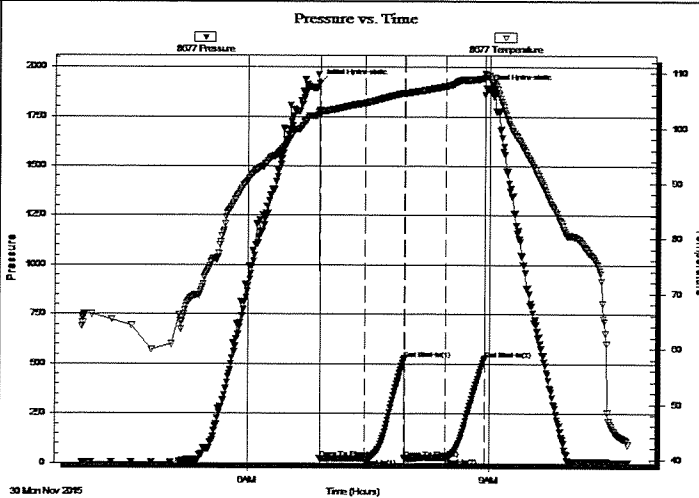
Time Off Btm: 2015.11.30 @ 08:57:15

TEST COMMENT: IF: Surface blow , Died @ 15 min.

IS: No return.

FF: No blow .

FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.58	103.19	Initial Hydro-static
1	21.91	102.48	Open To Flow (1)
33	24.71	104.53	Shut-In(1)
63	525.42	106.36	End Shut-In(1)
63	24.70	106.22	Open To Flow (2)
94	27.54	107.57	Shut-In(2)
123	526.23	109.07	End Shut-In(2)
124	1894.47	109.68	Final Hydro-static

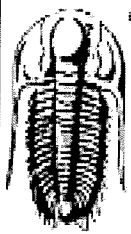
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	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
 4924 SE 84th St.
 Newton KS 67114
 ATTN: Ryan Seib

7-14s-30w Gove,KS
Brownie #3
 Job Ticket: 61849 **DST#: 3**
 Test Start: 2015.11.30 @ 03:56:00

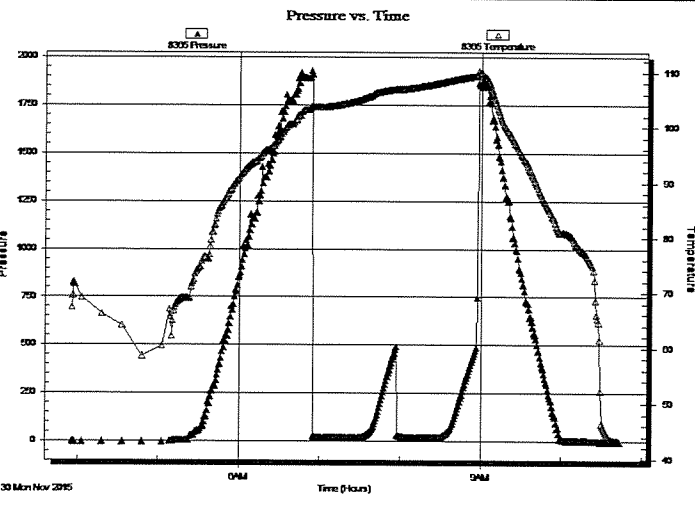
GENERAL INFORMATION:

Formation: **LKC D-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:54:00
 Time Test Ended: 10:43:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Interval: **3938.00 ft (KB) To 3992.00 ft (KB) (TVD)**
 Total Depth: 3992.00 ft (KB) (TVD)
 Reference Elevations: 2779.00 ft (KB)
 2771.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 8.00 ft

Serial #: 8365

Inside
 Press@RunDepth: psig @ 3939.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.11.30 End Date: 2015.11.30 Last Calib.: 1899.12.30
 Start Time: 03:56:05 End Time: 10:43:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Surface blow , Died @ 15 min.
 IS: No return.
 FF: No blow .
 FSI: No return.



PRESSURE SUMMARY

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

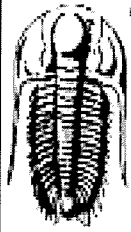
Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

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

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61849

DST#: 3

ATTN: Ryan Seib

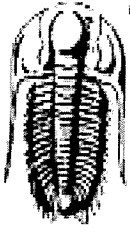
Test Start: 2015.11.30 @ 03:56:00

Tool Information

Drill Pipe:	Length: 3796.00 ft	Diameter: 3.80 inches	Volume: 53.25 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 53.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3938.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	81.00 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			3912.00	
Shut In Tool	5.00			3917.00	
Hydraulic tool	5.00			3922.00	
Jars	5.00			3927.00	
Safety Joint	2.00			3929.00	
Packer	5.00			3934.00	27.00 Bottom Of Top Packer
Packer	4.00			3938.00	
Stubb	1.00			3939.00	
Recorder	0.00	8365	Inside	3939.00	
Recorder	0.00	8677	Outside	3939.00	
Perforations	17.00			3956.00	
Change Over Sub	1.00			3957.00	
Drill Pipe	31.00			3988.00	
Change Over Sub	1.00			3989.00	
Bullnose	3.00			3992.00	54.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61849

DST#: 3

ATTN: Ryan Seib

Test Start: 2015.11.30 @ 03:56:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Mud 100m	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:

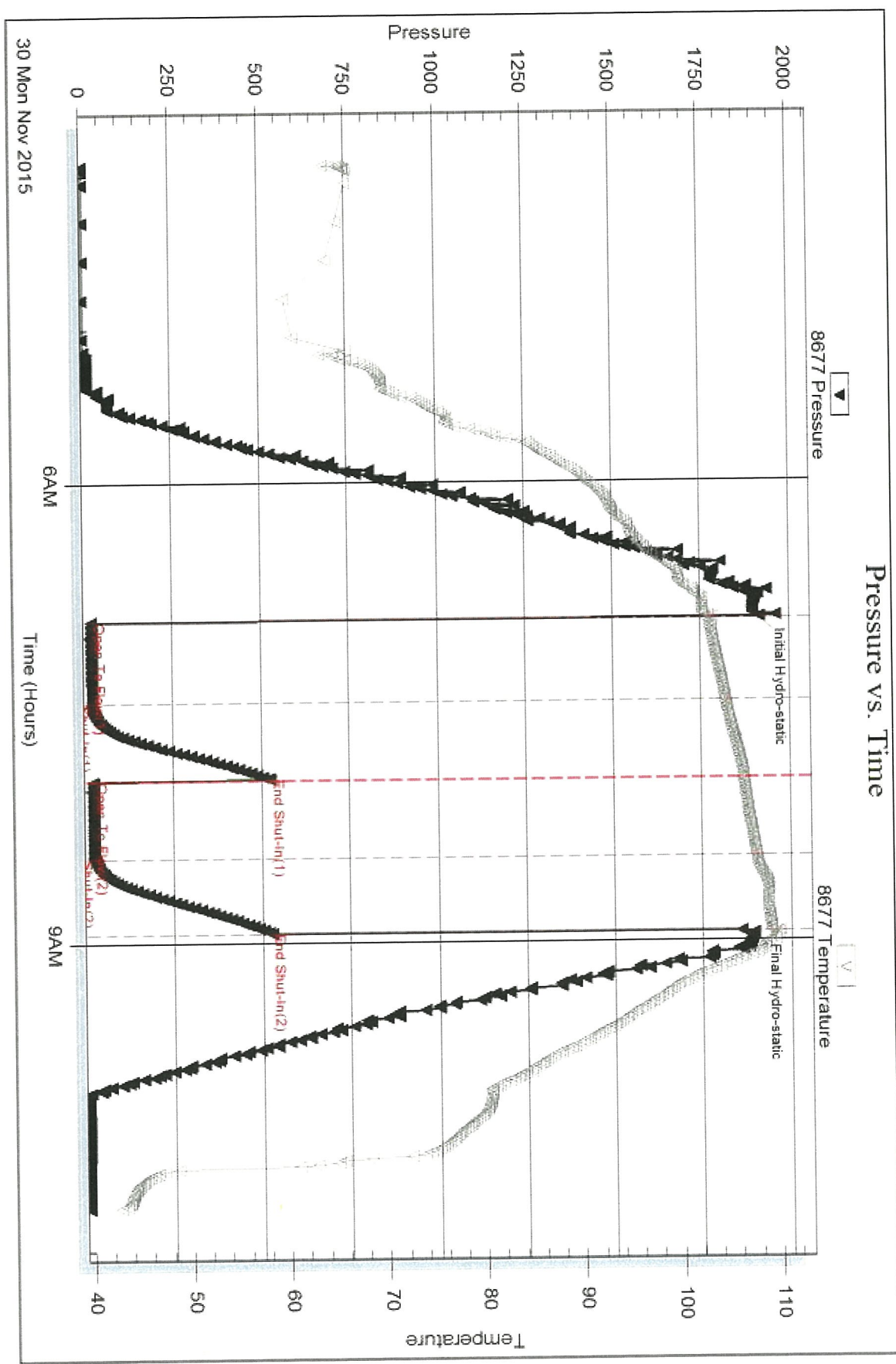
Recovery Comments:

Serial #: 8677

Outside Palomino Petroleum, Inc

Bro nle #3

DST Test Number: 3



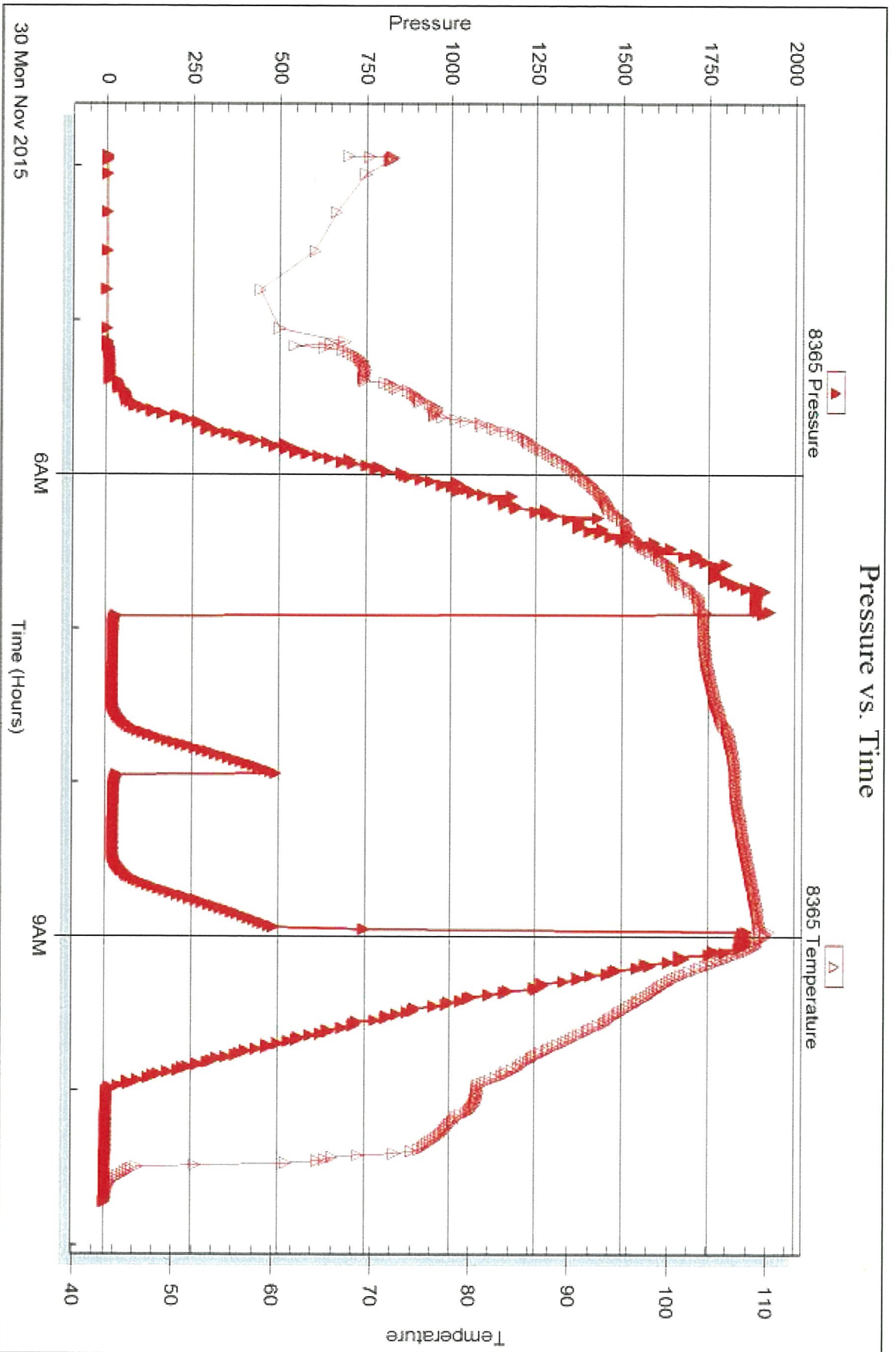
Serial #: 8365

Inside

Palomino Petroleum, Inc

Brow file #3

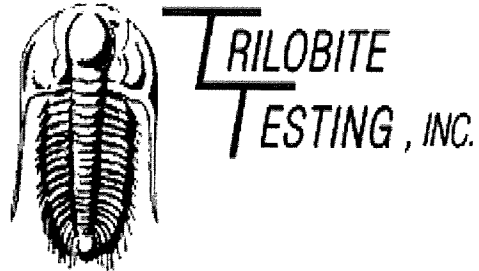
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 61949

Printed: 2015 12 08 @ 14:13:21



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton KS 67114

ATTN: Ryan Seib

Brownie #3

7-14s-30w Gove,KS

Start Date: 2015.11.30 @ 22:50:00

End Date: 2015.12.01 @ 05:13:15

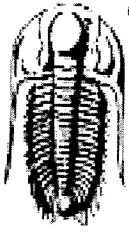
Job Ticket #: 61850 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2015.12.08 @ 14:12:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61850

DST#: 4

ATTN: Ryan Seib

Test Start: 2015.11.30 @ 22:50:00

GENERAL INFORMATION:

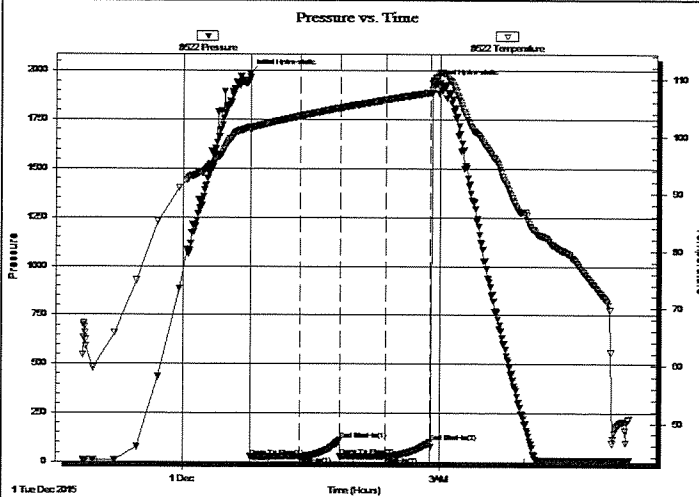
Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:47:15
 Time Test Ended: 05:13:15
 Interval: **4020.00 ft (KB) To 4090.00 ft (KB) (TVD)**
 Total Depth: 4090.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 2779.00 ft (KB)
 2771.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8522

Outside

Press@RunDepth: 28.82 psig @ 4021.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.11.30 End Date: 2015.12.01 Last Calib.: 2015.12.01
 Start Time: 22:50:05 End Time: 05:13:14 Time On Btm: 2015.12.01 @ 00:46:30
 Time Off Btm: 2015.12.01 @ 02:54:45

TEST COMMENT: IF: Surface blow, Dled @ 20 min.
 IS: No return.
 FF: No blow.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1988.66	101.59	Initial Hydro-static
1	25.98	101.07	Open To Flow (1)
36	27.66	103.55	Shut-In(1)
64	110.60	104.97	End Shut-In(1)
65	26.59	104.94	Open To Flow (2)
96	28.82	106.39	Shut-In(2)
127	101.76	107.65	End Shut-In(2)
129	1935.88	108.17	Final Hydro-static

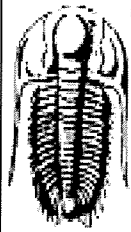
Recovery

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

7-14s-30w Gove, KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61850

DST#: 4

ATTN: Ryan Seib

Test Start: 2015.11.30 @ 22:50:00

Tool Information

Drill Pipe:	Length: 3890.00 ft	Diameter: 3.80 inches	Volume: 54.57 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4020.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	97.00 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			3994.00	
Shut In Tool	5.00			3999.00	
Hydraulic tool	5.00			4004.00	
Jars	5.00			4009.00	
Safety Joint	2.00			4011.00	
Packer	5.00			4016.00	27.00 Bottom Of Top Packer
Packer	4.00			4020.00	
Stubb	1.00			4021.00	
Recorder	0.00	8365	Inside	4021.00	
Recorder	0.00	8522	Outside	4021.00	
Perforations	33.00			4054.00	
Change Over Sub	1.00			4055.00	
Drill Pipe	31.00			4086.00	
Change Over Sub	1.00			4087.00	
Bullnose	3.00			4090.00	70.00 Bottom Packers & Anchor
Total Tool Length:	97.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 61850

DST#: 4

ATTN: Ryan Seib

Test Start: 2015.11.30 @ 22:50:00

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: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud 100m	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

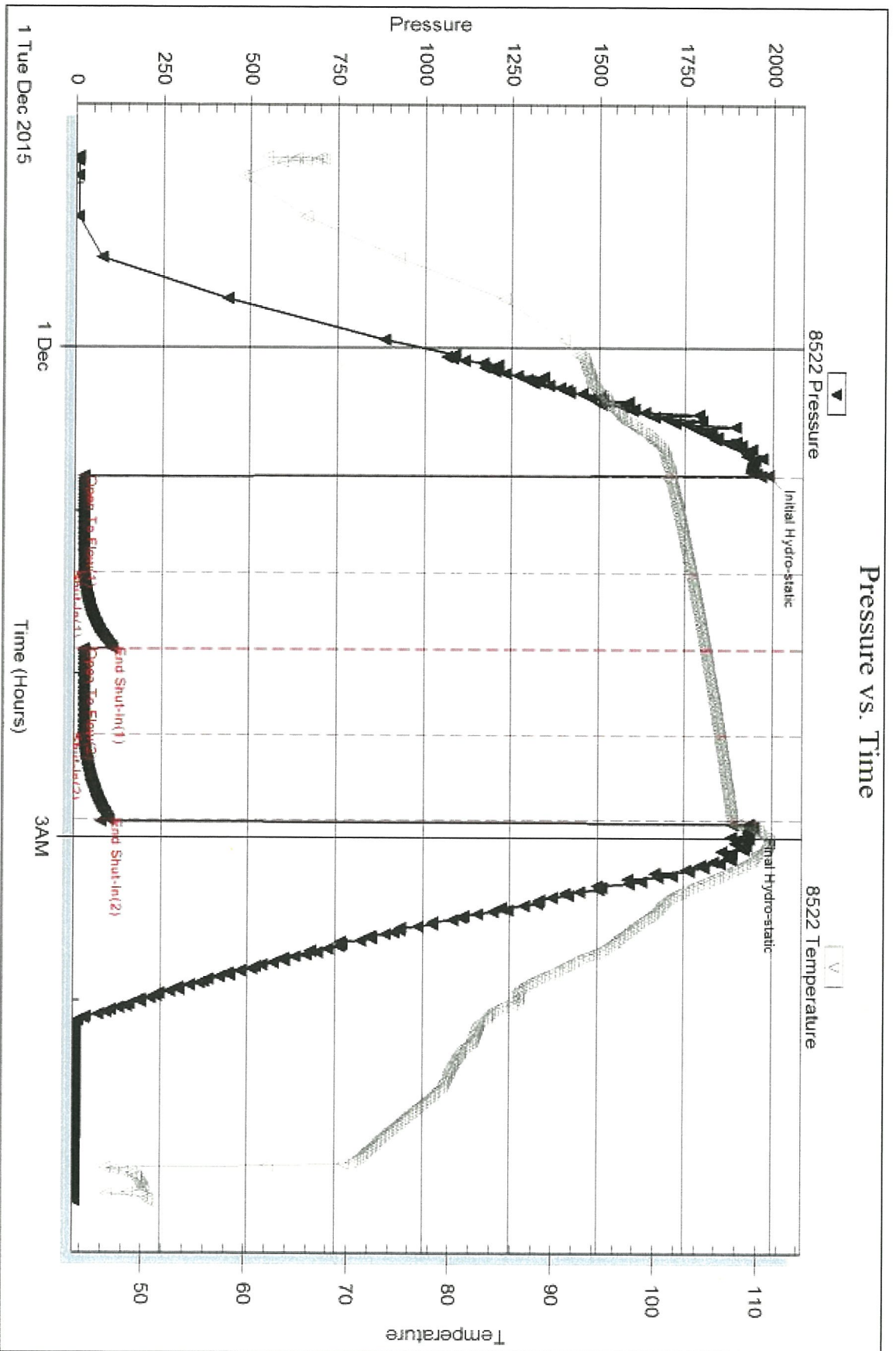
Recovery Comments:

Serial #: 8522

Outside Palomino Petroleum, Inc

Brow ne #3

DST Test Number: 4



Tribble Testing, Inc

Ref. No: 61850

Printed: 2015 12 08 @ 14:12:58

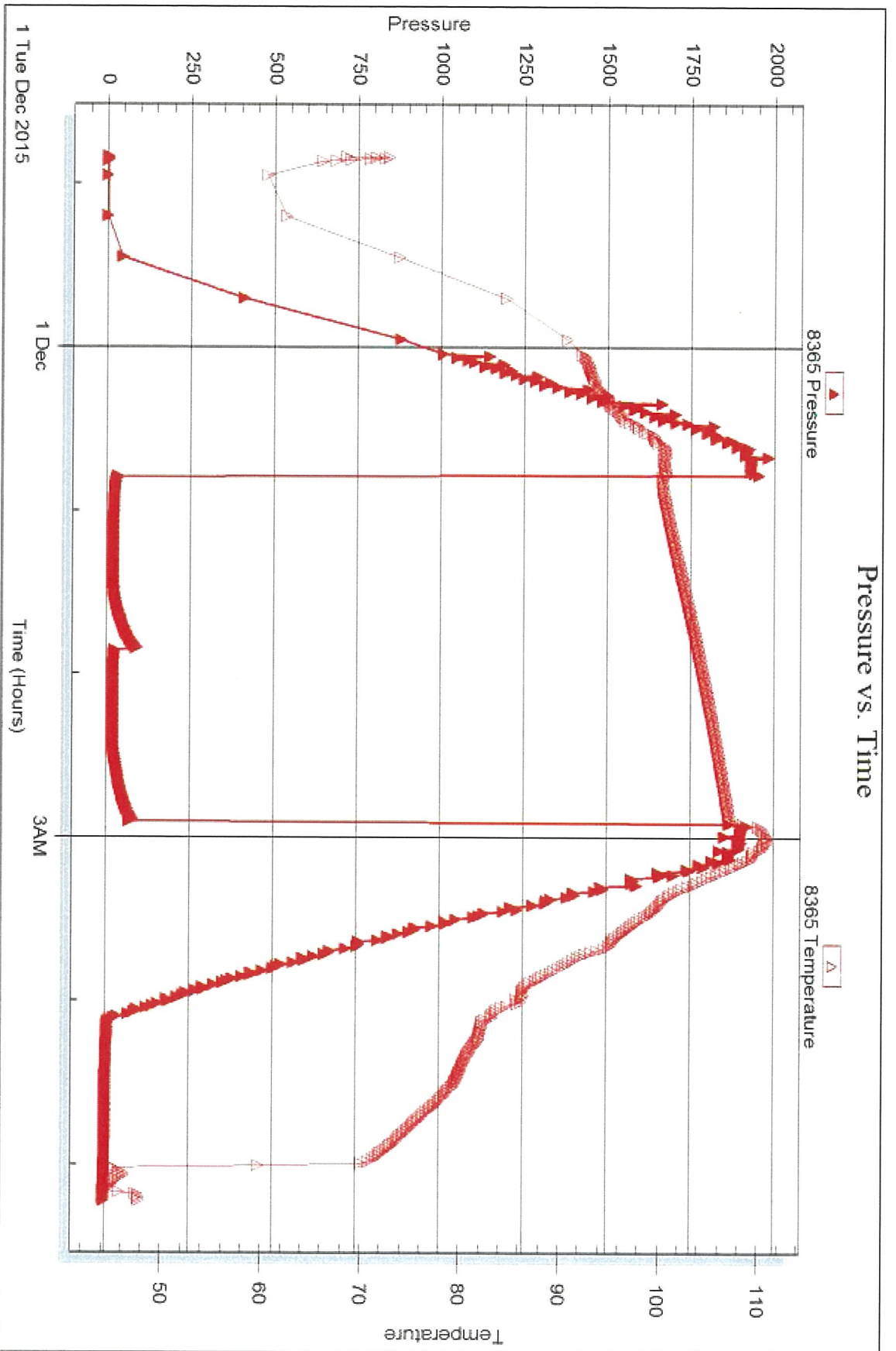
Serial #: 8365

Inside

Palomino Petroleum, Inc

Brownie #3

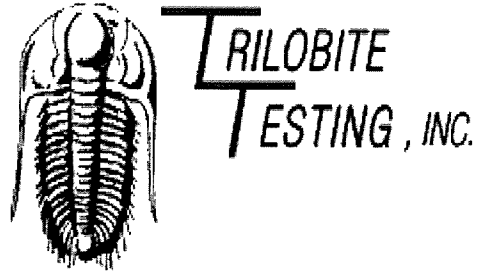
DST Test Number: 4



Tribble Testing, Inc

Ref. No: 61850

Printed: 2015 12 08 @ 14:12:56



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton KS 67114

ATTN: Ryan Seib

Brownie #3

7-14s-30w Gove,KS

Start Date: 2015.12.01 @ 13:27:00

End Date: 2015.12.01 @ 19:23:45

Job Ticket #: 64681 DST #: 5

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

Printed: 2015.12.08 @ 14:12:04

Palomino Petroleum, Inc
7-14s-30w Gove,KS
Brownie #3
DST # 5
LKC - J
2015.12.01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

7-14s-30w Gove, KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 64681

DST#: 5

ATTN: Ryan Seib

Test Start: 2015.12.01 @ 13:27:00

GENERAL INFORMATION:

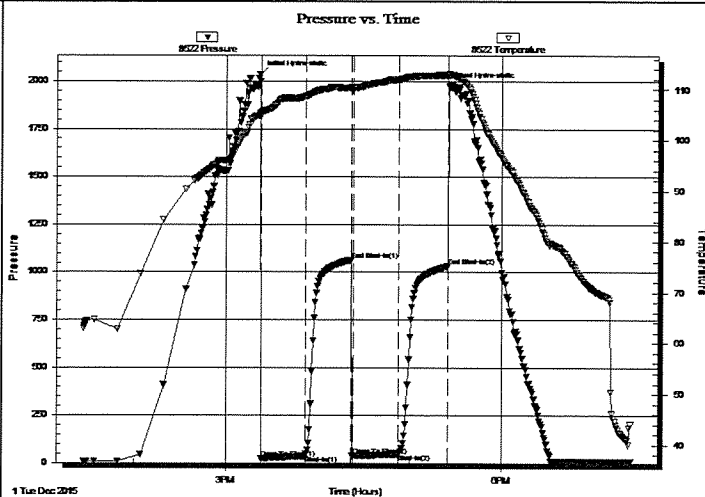
Formation: **LKC - J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:22:45
 Time Test Ended: 19:23:45
 Interval: **4086.00 ft (KB) To 4120.00 ft (KB) (TVD)**
 Total Depth: 4120.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 2779.00 ft (KB)
 2771.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8522

Outside

Press@RunDepth: 47.19 psig @ 4087.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.12.01 End Date: 2015.12.01 Last Calib.: 2015.12.01
 Start Time: 13:27:05 End Time: 19:23:44 Time On Btm: 2015.12.01 @ 15:22:00
 Time Off Btm: 2015.12.01 @ 17:25:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2037.02	105.08	Initial Hydro-static
1	23.41	104.86	Open To Flow (1)
30	39.67	108.64	Shut-In(1)
60	1064.23	110.35	End Shut-In(1)
61	38.61	110.17	Open To Flow (2)
91	47.19	111.95	Shut-In(2)
123	1031.96	112.84	End Shut-In(2)
123	1975.08	113.15	Final Hydro-static

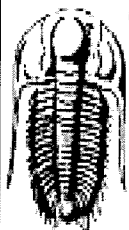
Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100m	0.20

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

7-14s-30w Gove, KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 64681

DST#: 5

ATTN: Ryan Seib

Test Start: 2015.12.01 @ 13:27:00

GENERAL INFORMATION:

Formation: **LKC - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:22:45

Time Test Ended: 19:23:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4086.00 ft (KB) To 4120.00 ft (KB) (TVD)**

Total Depth: 4120.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2779.00 ft (KB)

2771.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4087.00 ft (KB)

Start Date: 2015.12.01

End Date:

2015.12.01

Capacity: 8000.00 psig

Last Calib.: 2015.12.01

Start Time: 13:27:05

End Time:

19:23:44

Time On Btm:

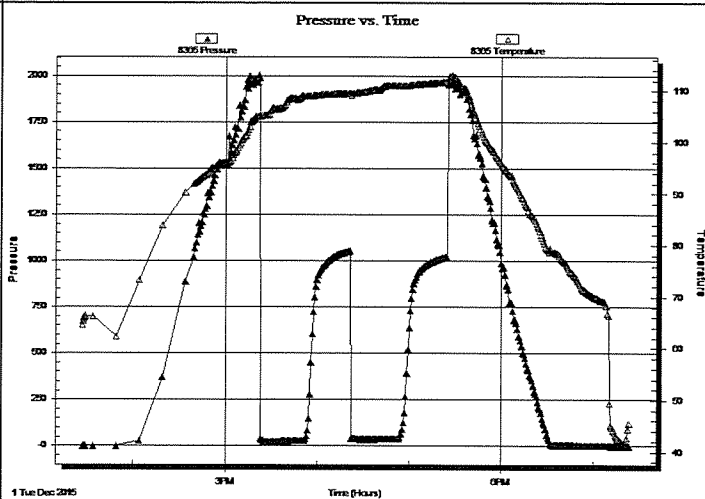
Time Off Btm:

TEST COMMENT: IF: 1/2" blow . Receded to Surface blow .

ISI: No return

FF: Surface blow .

FSI: No return



PRESSURE SUMMARY

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

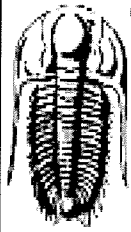
Recovery

Length (ft)	Description	Volume (bbl)
40.00	mud 100m	0.20

* 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

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 64681

DST#: 5

ATTN: Ryan Seib

Test Start: 2015.12.01 @ 13:27:00

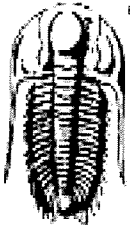
Tool Information

Drill Pipe:	Length: 3955.00 ft	Diameter: 3.80 inches	Volume: 55.48 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 56.08 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4086.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4060.00	
Shut In Tool	5.00			4065.00	
Hydraulic tool	5.00			4070.00	
Jars	5.00			4075.00	
Safety Joint	2.00			4077.00	
Packer	5.00			4082.00	27.00 Bottom Of Top Packer
Packer	4.00			4086.00	
Stubb	1.00			4087.00	
Recorder	0.00	8365	Inside	4087.00	
Recorder	0.00	8522	Outside	4087.00	
Perforations	30.00			4117.00	
Bullnose	3.00			4120.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 64681

DST#: 5

ATTN: Ryan Seib

Test Start: 2015.12.01 @ 13:27:00

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	mud 100m	0.197

Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

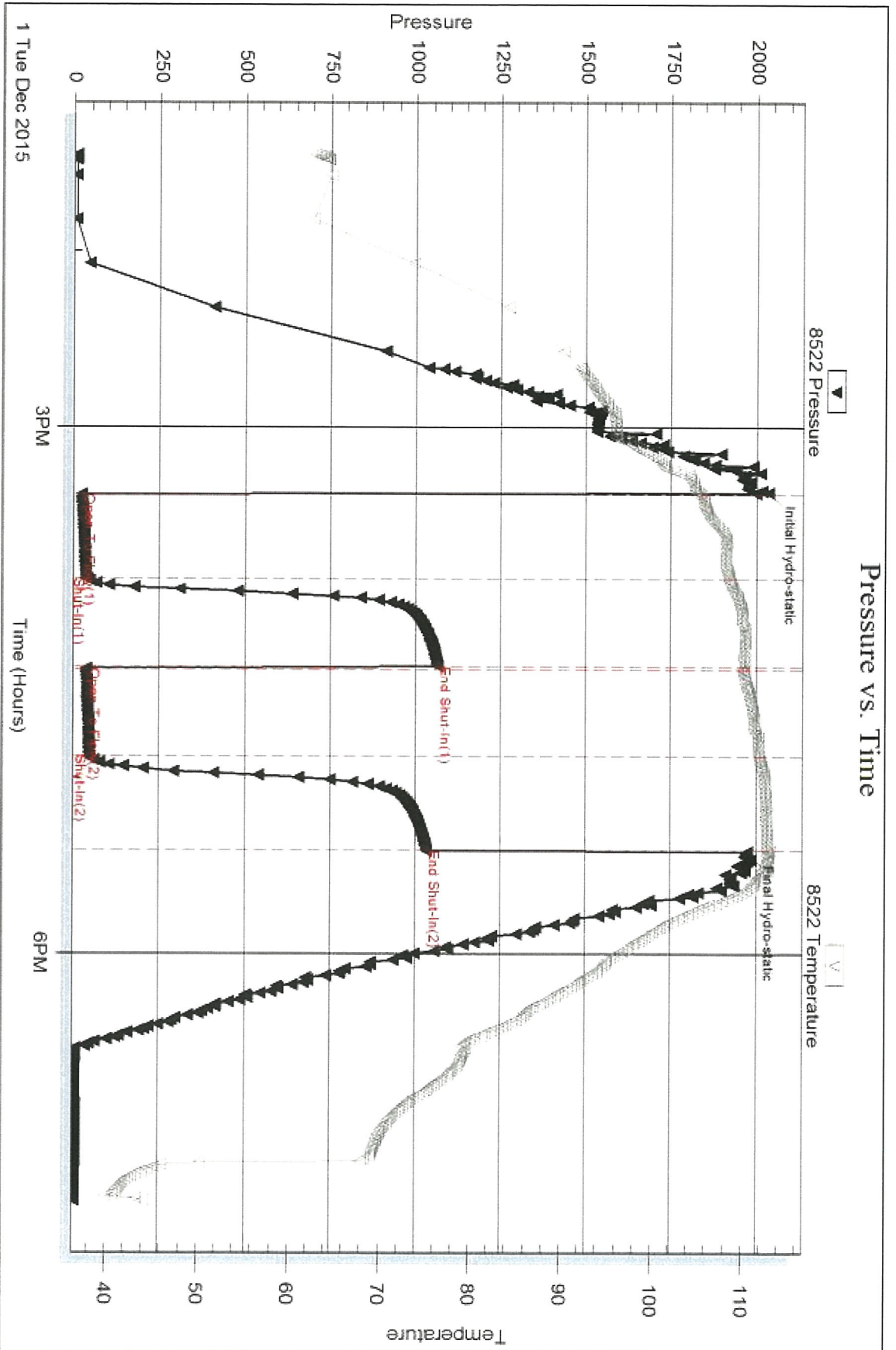
Recovery Comments:

Serial #: 8522

Outside Palomino Petroleum, Inc

Brownie #3

DST Test Number: 5



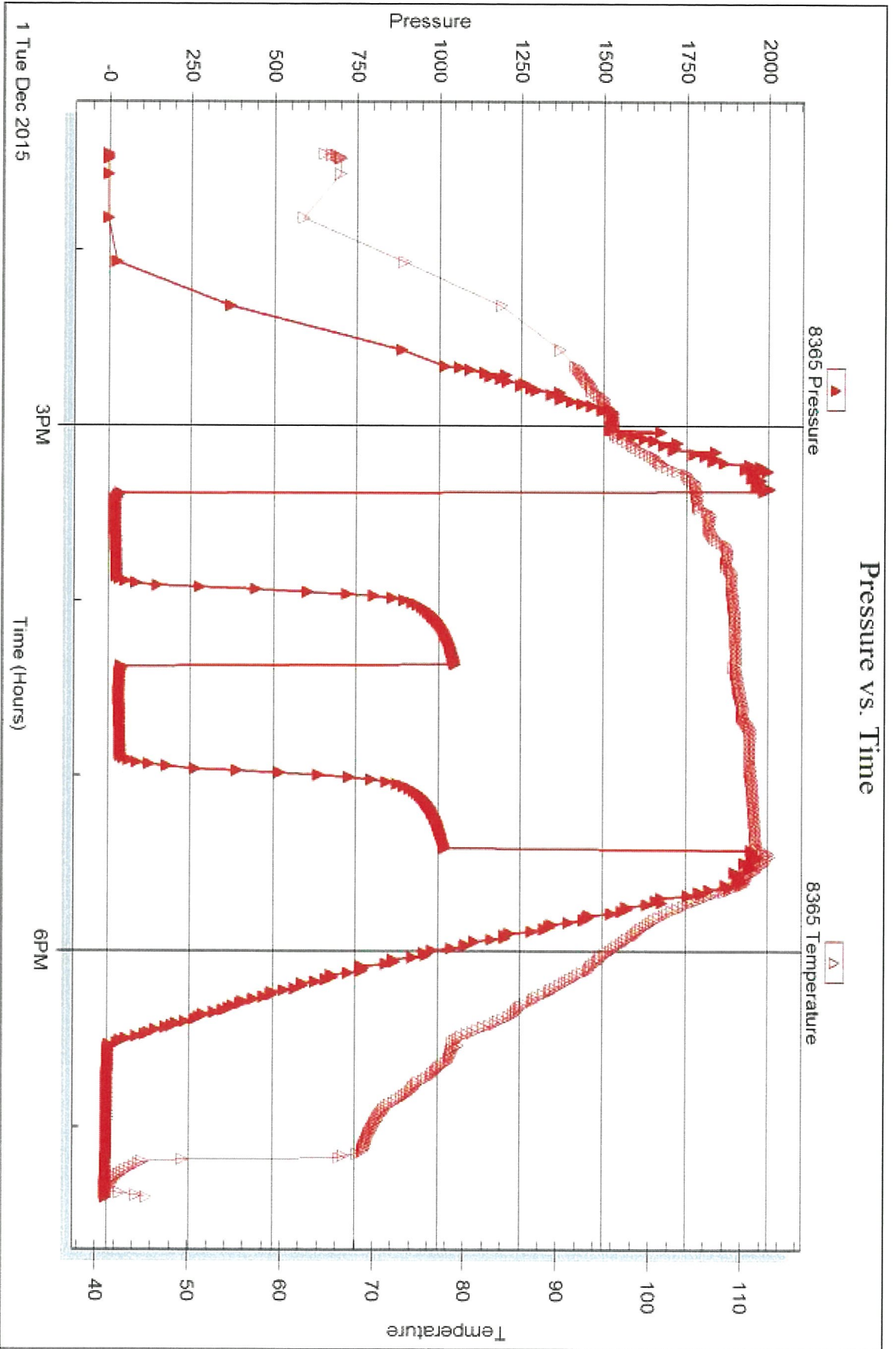
Serial #: 8365

Inside

Palomino Petroleum, Inc

Brow nie #3

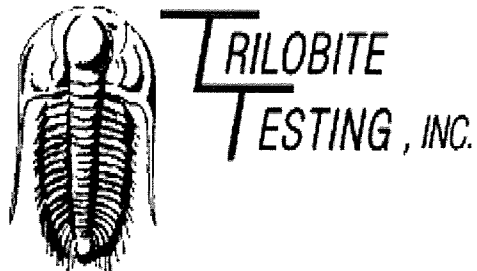
DST Test Number: 5



Tribble Testing, Inc

Ref. No: 64681

Printed 2015 12 08 @ 14:12:06



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton KS 67114

ATTN: Ryan Seib

Brownie #3

7-14s-30w Gove,KS

Start Date: 2015.12.03 @ 07:54:00

End Date: 2015.12.03 @ 14:29:00

Job Ticket #: 64682 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2015.12.08 @ 14:11:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 64682

DST#: 6

ATTN: Ryan Seib

Test Start: 2015.12.03 @ 07:54:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:15:00

Time Test Ended: 14:29:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4390.00 ft (KB) To 4597.00 ft (KB) (TVD)**

Total Depth: 4597.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2779.00 ft (KB)

2771.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8522 Outside

Press@RunDepth: 56.46 psig @ 4391.00 ft (KB)

Start Date: 2015.12.03

End Date: 2015.12.03

Start Time: 07:54:05

End Time: 14:28:59

Capacity: 8000.00 psig

Last Calib.: 2015.12.03

Time On Btm: 2015.12.03 @ 10:14:45

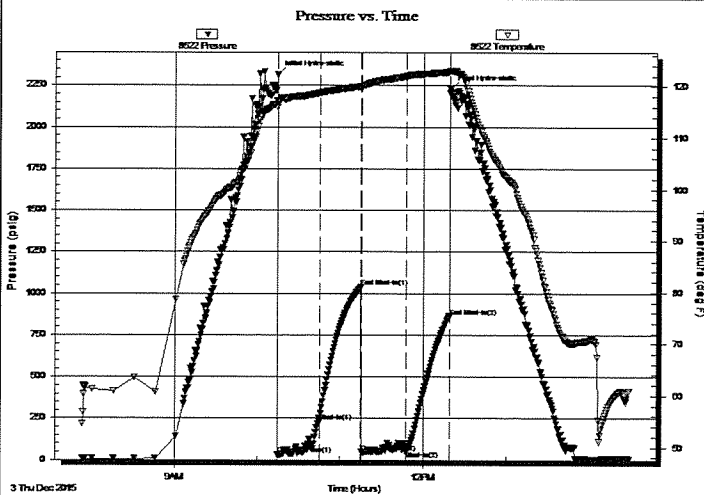
Time Off Btm: 2015.12.03 @ 12:19:30

TEST COMMENT: IF: 1/2" blow , receded to weak surface.

ISI: No return.

FF: No blow .

FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2313.24	117.05	Initial Hydro-static
1	34.05	116.01	Open To Flow (1)
31	228.54	118.73	Shut-In(1)
61	1037.08	119.98	End Shut-In(1)
61	47.84	119.46	Open To Flow (2)
93	56.46	122.00	Shut-In(2)
124	862.34	122.80	End Shut-In(2)
125	2228.53	123.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud 100m	0.25

* 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

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 64682

DST#: 6

ATTN: Ryan Seib

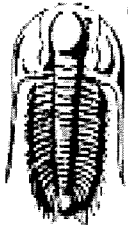
Test Start: 2015.12.03 @ 07:54:00

Tool Information

Drill Pipe:	Length: 4265.00 ft	Diameter: 3.80 inches	Volume: 59.83 bbl	Tool Weight: 2500.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.43 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4390.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	207.00 ft			
Tool Length:	234.00 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			4364.00	
Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00			4374.00	
Jars	5.00			4379.00	
Safety Joint	2.00			4381.00	
Packer	5.00			4386.00	27.00 Bottom Of Top Packer
Packer	4.00			4390.00	
Stubb	1.00			4391.00	
Recorder	0.00	8365	Inside	4391.00	
Recorder	0.00	8522	Outside	4391.00	
Perforations	13.00			4404.00	
Change Over Sub	1.00			4405.00	
Drill Pipe	188.00			4593.00	
Change Over Sub	1.00			4594.00	
Bullnose	3.00			4597.00	207.00 Bottom Packers & Anchor
Total Tool Length:	234.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

7-14s-30w Gove,KS

4924 SE 84th St.
New ton KS 67114

Brownie #3

Job Ticket: 64682

DST#: 6

ATTN: Ryan Seib

Test Start: 2015.12.03 @ 07:54:00

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: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
50.00	mud 100m	0.246

Total Length: 50.00 ft Total Volume: 0.246 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: slid 1' at bottom took on a small amount of mud. The small amount of flow pressure caused erratic plugging, how ever tool never plugged completely off.

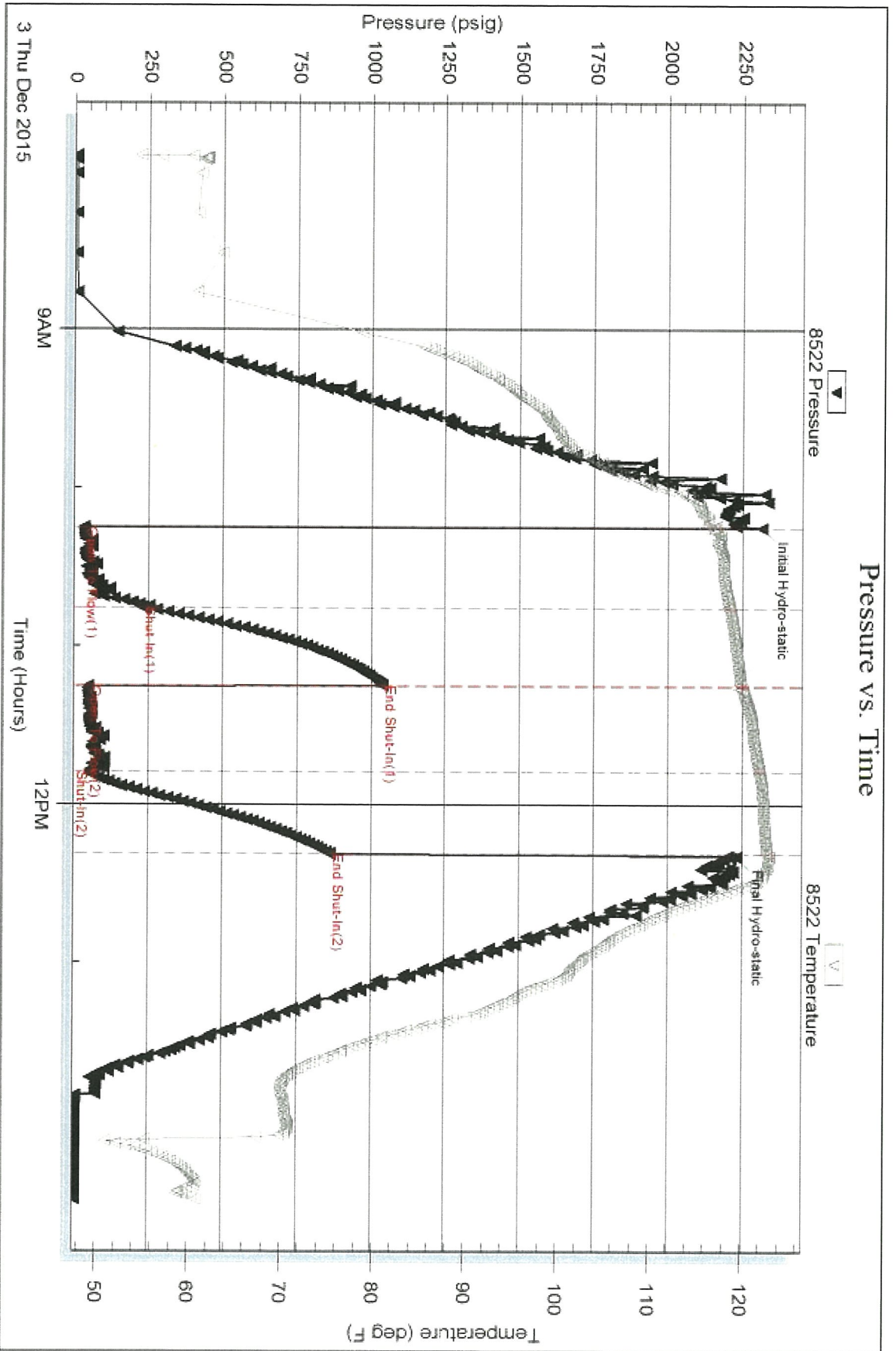
Serial #: 8522

Outside

Palomino Petroleum, Inc

Brownie #3

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 64682

Printed: 2015 12 08 @ 14:11:14

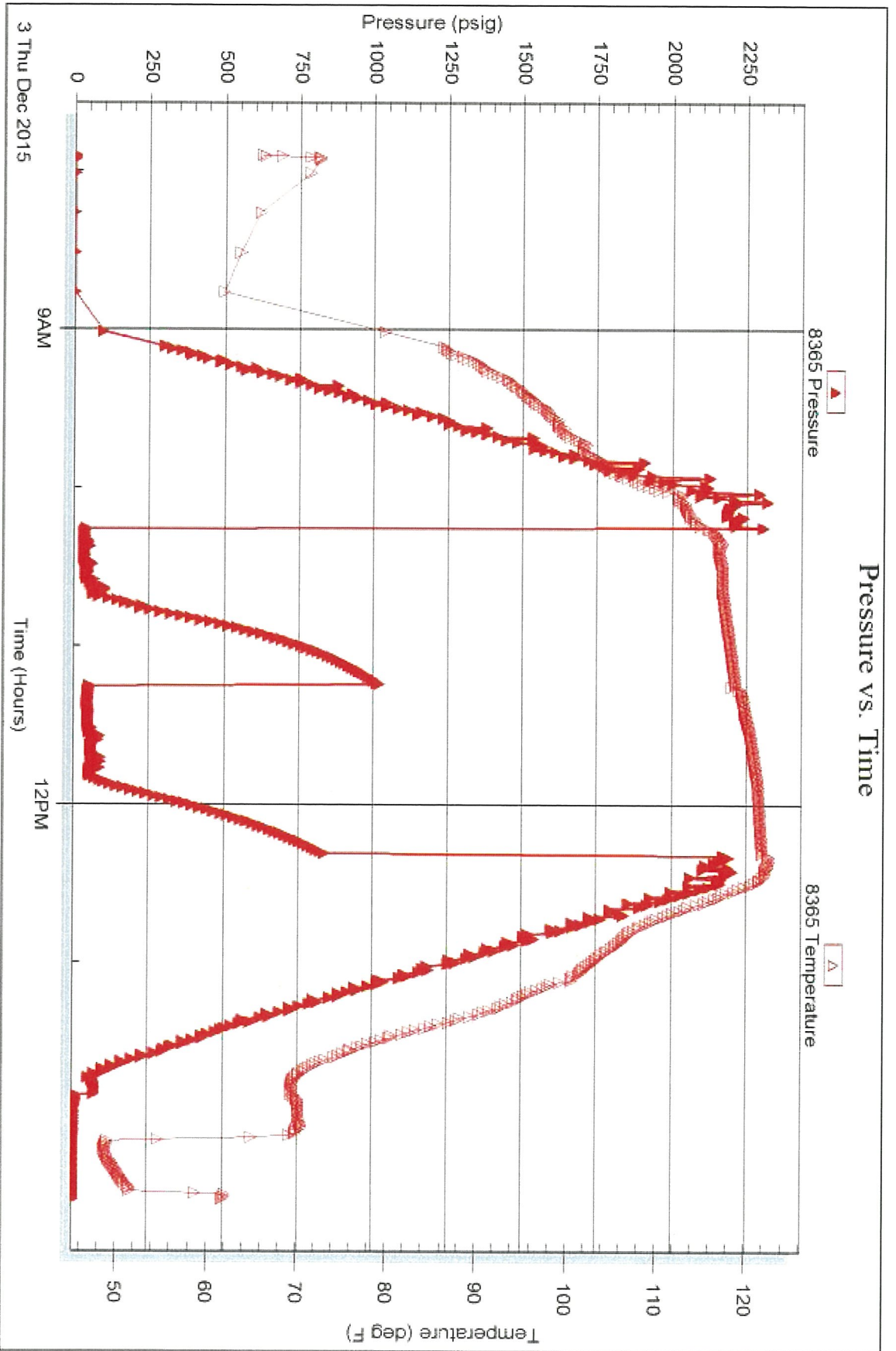
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Inside

Palomino Petroleum, Inc

Brownie #3

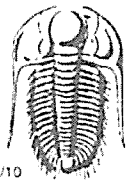
DST Test Number: 6



Triobite Testing, Inc

Ref. No: 64682

Printed: 2015 12 08 @ 14:11:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61847

Well Name & No. Browne #3 Test No. 1 Date 11/29/2015
 Company Palomino Petroleum Elevation 2779 KB 2771 GL
 Address 4924 SE 84th St. Newton, Ks 67114
 Co. Rep / Geo. Ryan Seib Rig WW #12
 Location: Sec. 7 Twp. 14s Rge. 30w Co. Gove State Ks

Interval Tested 3832 - 3900 Zone Tested Toronto - Lkc A
 Anchor Length 68' Drill Pipe Run 3683 Mud Wt. 9.0
 Top Packer Depth 3827 Drill Collars Run 121 Vis 51
 Bottom Packer Depth 3832 Wt. Pipe Run 0 WL 7.4
 Total Depth 3900 Chlorides 1100 ppm System LCM 2nd

Blow Description IF 1" blow
ISI No return.
FF 1" blow
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>Wc.n</u>			<u>20</u>	<u>80</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

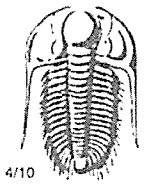
Rec Total 150 BHT 111 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1884 Test 1050 T-On Location 1800
 (B) First Initial Flow 25 Jars 250 T-Started 1824
 (C) First Final Flow 71 Safety Joint 75 T-Open 2121
 (D) Initial Shut-In 1125 Circ Sub N/E T-Pulled 2321
 (E) Second Initial Flow 77 Hourly Standby — T-Out 0147
 (F) Second Final Flow 95 Mileage 77 RT Comments —
 (G) Final Shut-In 1114 Sampler —
 (H) Final Hydrostatic 1876 Straddle —
 Ruined Shale Packer —
 Ruined Packer —

Initial Open 30 Extra Packer —
 Initial Shut-In 30 Extra Recorder —
 Final Flow 30 Day Standby —
 Final Shut-In 30 Accessibility —
 Sub Total 1452 MP/DST Disc't —

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61848

Well Name & No. Browne #3 Test No. 2 Date 11/29/2015
 Company Palomino Petroleum Inc Elevation 2779 KB 2771 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Ryan Seib Rig WU #12
 Location: Sec. 7 Twp. 14s Rge. 30w Co. Gove State KS

Interval Tested 3898-3940 Zone Tested LKC C
 Anchor Length 47' Drill Pipe Run 3767 Mud Wt. 9.0
 Top Packer Depth 3893 Drill Collars Run 121 Vis 54
 Bottom Packer Depth 3898 Wt. Pipe Run 0 WL 6.8
 Total Depth 3940 Chlorides 3700 ppm System LCM 2#

Blow Description IF 1/2" blow
ISI No return
FF Surface blow
FST No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>WCM</u>		<u>10</u>	<u>90</u>	
	<u>(OIL SPOTS)</u>				

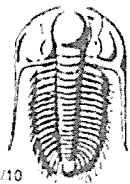
Rec Total 80 BHT 112 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1891 Test 1050 T-On Location 1315
 (B) First Initial Flow 24 Jars 250 T-Started 1344
 (C) First Final Flow 45 Safety Joint 75 T-Open 1617
 (D) Initial Shut-In 1141 Circ Sub W/C T-Pulled 1807
 (E) Second Initial Flow 48 Hourly Standby — T-Out 2018
 (F) Second Final Flow 64 Mileage 7704 Comments —
 (G) Final Shut-In 1111 Sampler —
 (H) Final Hydrostatic 1872 Straddle —

Initial Open 30 Ruined Shale Packer —
 Initial Shut-In 30 Ruined Packer —
 Final Flow 30 Extra Packer —
 Final Shut-In 30 Extra Recorder —
 Day Standby — Sub Total 0
 Accessibility — Total 1452
 Sub Total 1452 MP/DST Disc't —

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61849

Well Name & No. Brownie #3 Test No. 3 Date 11/30/2015
 Company Palamino Petroleum, Inc Elevation 2779 KB 2771 GL
 Address 4974 SE 84th St Newton, Ks 67114
 Co. Rep / Geo. Ryan Seb Rig WW 11
 Location: Sec. 7 Twp. 14s Rge. 30w Co. Gove State Ks

Interval Tested 3938-3992 Zone Tested LKC D-F
 Anchor Length 54 Drill Pipe Run 3796 Mud Wt. 9.1
 Top Packer Depth 3933 Drill Collars Run 121 Vis 52
 Bottom Packer Depth 3938 Wt. Pipe Run 0 WL 6.8
 Total Depth 3992 Chlorides 3,000 ppm System LCM 2th

Blow Description IF: Surface blow, died @ 15 min
ISI: No return
FF: No blow
FSI: No return

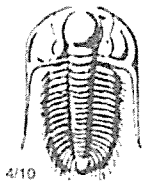
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 109 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1916</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0300</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0356</u>
(C) First Final Flow <u>25</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0657</u>
(D) Initial Shut-In <u>525</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0857</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1044</u>
(F) Second Final Flow <u>28</u>	<input checked="" type="checkbox"/> Mileage <u>77 RT</u>	Comments
(G) Final Shut-In <u>526</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1874</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1452</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1452</u>	

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61850

Well Name & No. Lawrence #3 Test No. 4 Date 12/01/2015
 Company Palomino Petroleum, Inc Elevation 2779 KB 2771 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Ryan Seib Rig WW 12
 Location: Sec. 7 Twp. 14S Rge. 30W Co. Gore State Ks

Interval Tested 4020-4090 Zone Tested LKC I
 Anchor Length 70' Drill Pipe Run 3890 Mud Wt. 9.2
 Top Packer Depth 4015 Drill Collars Run 121 Vis 52
 Bottom Packer Depth 4020 Wt. Pipe Run 8 WL 7.4
 Total Depth 4090 Chlorides 3900 ppm System LCM Z#

Blow Description IF surface blow dried @ 20 min.
IST No return
FF No blow
IST No return

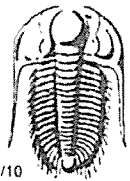
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 108 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1989</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2200</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2250</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0052</u>
(D) Initial Shut-In <u>111</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>0252</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0513</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>7724</u>	Comments
(G) Final Shut-In <u>102</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1936</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1452</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1542</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64681

Well Name & No. Brownie #3 Test No. 5 Date 12/01/2015
 Company Palomino Petroleum, Inc Elevation 2779 KB 2771 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Ryan Seib Rig WW¹²
 Location: Sec. 7 Twp. 14s Rge. 30w Co. Gore State KS

Interval Tested 4086 - 4120 Zone Tested LKC J
 Anchor Length 34 Drill Pipe Run 3955 Mud Wt. 9.2
 Top Packer Depth 4081 Drill Collars Run 120 Vis 54
 Bottom Packer Depth 4086 Wt. Pipe Run 0 WL 7.8
 Total Depth 4120 Chlorides 3900 ppm System LCM 2#

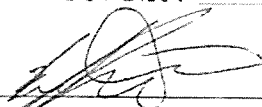
Blow Description IF 1/2" blow, receded to surface.
ISI No return.
FF Surface blow
PSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>MUD</u>			<u>100</u>	

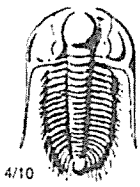
Rec Total 40 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2037 Test 1150 T-On Location 1327
 (B) First Initial Flow 23 Jars 250 T-Started 1327
 (C) First Final Flow 40 Safety Joint 75 T-Open 1523
 (D) Initial Shut-In 1064 Circ Sub 4/c T-Pulled 1723
 (E) Second Initial Flow 39 Hourly Standby _____ T-Out 1924
 (F) Second Final Flow 47 Mileage 77 RT Comments _____
 (G) Final Shut-In 1032 Sampler _____
 (H) Final Hydrostatic 1975 Straddle _____

Ruined Shale Packer _____
 Ruined Packer 320
 Extra Copies _____
 Sub Total 320
 Total 1862
 MP/DST Disc't _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1542

Approved By _____ Our Representative 

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. 64682

Well Name & No. Browne #3 Test No. 6 Date 12/03/2015
 Company Palomo Petroleum, Inc Elevation 2779 KB 2771 GL
 Address 4924 SE 94th St Newton, KS 67114
 Co. Rep / Geo. Ryan Seib Rig WW #12
 Location: Sec. 7 Twp. 14S Rge. 30W Co. Gove State KS

Interval Tested 4390 - 4597 Zone Tested Johnson
 Anchor Length 207' Drill Pipe Run 4265 Mud Wt. 9.2
 Top Packer Depth 4385 Drill Collars Run 121 Vis 58
 Bottom Packer Depth 4390 Wt. Pipe Run Ø WL 7.8
 Total Depth 4597 Chlorides 3900 ppm System LCM 2#

Blow Description IF: 1/2" blow receded to a weak surface blow.
ISI: No return.
AF: No blow
FBI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>MUD</u>			<u>100</u>	

Rec Total 50 BHT 123 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2313</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0740</u>
(B) First Initial Flow <u>34</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0754</u>
(C) First Final Flow <u>229</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1015</u>
(D) Initial Shut-In <u>1037</u>	<input checked="" type="checkbox"/> Circ Sub <u>NA</u>	T-Pulled <u>1215</u>
(E) Second Initial Flow <u>48</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1429</u>
(F) Second Final Flow <u>56</u>	<input checked="" type="checkbox"/> Mileage <u>7724</u>	Comments
(G) Final Shut-In <u>862</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2229</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1542</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1542</u>	

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