



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1268435
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1268435

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

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

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

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

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

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

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

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

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	Duff 1
Doc ID	1268435

All Electric Logs Run

Compensated Density Neutron
Micro Resistivity
Borehole Compensated Sonic
Dual Induction

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	Duff 1
Doc ID	1268435

Tops

Name	Top	Datum
Anhy.	2078	(+630)
Base Anhy.	2140	(+568)
Heebner	3634	(-926)
Toronto	3654	(-946)
Lansing	3676	(-968)
Muncie Creek	3847	(-1139)
Stark	3940	(-1232)
Hushpuckney	3977	(-1269)
BKC	4001	(-1269)
Marmaton	4050	(-1342)
Altamont	4070	(-1362)
Pawnee	4149	(-1441)
Little Osage	4173	(-1465)
Excello	4194	(-1486)
Cherokee	4226	(-1518)
Johnson	4269	(-1561)
Morrow	4304	(-1596)
Miss.	4330	(-1622)
LTD	4802	(-1850)

RECEIVED

OCT 05 2015



INVOICE

P.O. Box 205803
Dallas, TX 75320-5803

Invoice Number: 150913
Invoice Date: Sep 28, 2015
Page: 1

Voice: (832) 482-3742
Fax: (832) 482-3738

Federal Tax I.D.#: 20-8651475

Bill To:
Palomino Petroleum, Inc. 4924 SE 84th St. Newton, KS 67114-8827

Customer ID	Field Ticket #	Payment Terms	
Palo	67733	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 28, 2015	10/28/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Duff #1		
160.00	CEMENT MATERIALS	Class A Common	17.90	2,864.00
301.00	CEMENT MATERIALS	Gel	0.50	150.50
451.00	CEMENT MATERIALS	Chloride	1.10	496.10
173.01	CEMENT SERVICE	Cubic Feet Charge	2.48	429.06
197.51	CEMENT SERVICE	Ton Mileage Charge	2.75	543.15
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
25.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	192.50
25.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	110.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	2,106.36	-2,106.36
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,672.19	-1,672.19
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Brandon Wilkinson		
1.00	EQUIPMENT OPERATOR	Darren Racette		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. ONLY IF PAID ON OR
BEFORE

Oct 28, 2015

1 1/2% CHARGED
THEREAFTER.

Subtotal	2,519.01
Sales Tax	112.34
Total Invoice Amount	2,631.35
Payment/Credit Applied	
TOTAL	2,631.35

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067733

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, KS

DATE <u>9-28-15</u>	SEC <u>9</u>	TWP <u>15 E</u>	RANGE <u>32 S</u>	CALLED OUT	ON LOCATION <u>5:30 p.m.</u>	JOB START <u>6:30 p.m.</u>	JOB FINISH <u>7:00 p.m.</u>
LEASE <u>Duff</u>	WELL# <u>1</u>	LOCATION <u>Oakley 24 mi South</u>	COUNTY <u>Logan</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one) <u>NEW</u>			<u>W into</u>				

CONTRACTOR W&W 2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 219

CASING SIZE 8 5/8 DEPTH 218.58

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE , SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 17.5 bbl H₂O

EQUIPMENT

PUMP TRUCK CEMENTER Paul Beaver

431 HELPER Brandon Wilkinson

BULK TRUCK

373/306 DRIVER Darren Racette

BULK TRUCK

DRIVER

OWNER Same

CEMENT

AMOUNT ORDERED 160 sks Com 3 1/2 CC

27 gal

COMMON	<u>160 sks @ 17.90</u>	<u>2864.00</u>
POZMIX	@	
GEL	<u>301 # @ .50</u>	<u>150.50</u>
CHLORIDE	<u>451 # @ 1.10</u>	<u>496.10</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	

TOTAL 3,510.60

DISCOUNT 60% 2106.36

REMARKS:

mix 160 sks

Displace w/ water

cement did circ

5 bbl to pit

Thank You!

Paul + Crew

SERVICE

HANDLING	<u>173.01 ft³ @ 2.48</u>	<u>429.06</u>
MILEAGE	<u>7.90 tons x .25 mi x 2.75</u>	<u>543.13</u>
DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>1512.25</u>
EXTRA FOOTAGE	@	
HV MILEAGE	<u>25 @ 7.70</u>	<u>192.50</u>
LV MILEAGE	<u>25 @ 4.40</u>	<u>110.00</u>
	@	
	@	

TOTAL 2786.94

DISCOUNT 60% 1672.16

CHARGE TO: Palomino Petro Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		
DISCOUNT	%	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 6,297.54

DISCOUNT 3,778.52 (60%) IF PAID IN 30 DAYS

NET TOTAL 2,519.01 IF PAID IN 30 DAYS

RECEIVED

OCT 22 2015



INVOICE

P.O. Box 205803
Dallas, TX 75320-5803

Invoice Number: 150961
Invoice Date: Oct 8, 2015
Page: 1

Voice: (832) 482-3742
Fax: (832) 482-3738

Federal Tax I.D.#: 20-8651475

Bill To:
Palomino Petroleum, Inc. 4924 SE 84th St. Newton, KS 67114-8827

Customer ID	Field Ticket #	Payment Terms	
Palo	67668	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Oct 8, 2015	11/7/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Duff #1		
240.00	CEMENT MATERIALS	60/40/4% Gel Blend	18.92	4,540.80
60.00	CEMENT MATERIALS	Flo Seal	2.97	178.20
257.76	CEMENT SERVICE	Cubic Feet Charge	2.48	639.24
269.00	CEMENT SERVICE	Ton Mileage Charge	2.75	739.75
1.00	CEMENT SERVICE	Plug to Abandon	2,483.59	2,483.59
25.00	CEMENT SERVICE	Pump Truck Mileage	7.70	192.50
25.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	110.00
1.00	EQUIPMENT SALES	8-5/8 Dry Hole Plug	110.00	110.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	2,897.40	-2,897.40
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	2,499.05	-2,499.05
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Darren Racette		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. ONLY IF PAID ON OR
BEFORE

Nov 7, 2015

1 1/2% CHARGED
THEREAFTER.

Subtotal	3,597.63
Sales Tax	287.81
Total Invoice Amount	3,885.44
Payment/Credit Applied	
TOTAL	3,885.44

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067668

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Dakley

DATE <u>10-8-15</u>	SEC. <u>9</u>	TWP. <u>15</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>7:00pm</u>	JOB START <u>9:00pm</u>	JOB FINISH <u>10:00pm</u>
LEASE <u>Duff</u>	WELL# <u>1</u>	LOCATION <u>Dakley 215 Winto</u>			COUNTY <u>Logan</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Wtw 2 OWNER same

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4510' CEMENT

CASING SIZE _____ DEPTH _____ AMOUNT ORDERED 240 sks 4040

TUBING SIZE _____ DEPTH _____ 4 1/2 GEL 4460-seal

DRILL PIPE 4 1/2 DEPTH 2150'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK CEMENTER Andrew Horslund
431 HELPER Paul Beaver

BULK TRUCK _____

898 DRIVER Darren Racette

BULK TRUCK _____

_____ DRIVER _____

REMARKS:

50 sks @ 2150'
100 sks @ 1125'
50 sks @ 225'
10 sks @ 40'
30 sks Ret hole

Thank you

CHARGE TO: Palamino Petroleum

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 4,719.00
DISCOUNT 60% 2831.40

SERVICE

HANDLING 250.26 @ 2.48 639.24

MILEAGE 2.25 ton/mile 10.26 ton 239.25

DEPTH OF JOB 2150'

PUMP TRUCK CHARGE 2483.59

EXTRA FOOTAGE @ _____

HV MILEAGE 25 miles @ 7.70 192.50

LV MILEAGE 25 miles @ 4.40 110.00

_____ @ _____

_____ @ _____

TOTAL 4,165.08
DISCOUNT 60% 2499.04

PLUG & FLOAT EQUIPMENT

858
1 Dry hole plug @ _____ 110.00

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL 110.00
DISCOUNT 60% 66.00

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

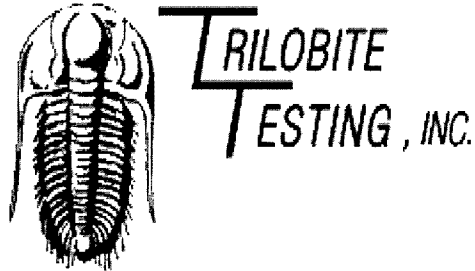
SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 8,994.08

DISCOUNT 5,396.44 (60%) IF PAID IN 30 DAYS

NET TOTAL 3,597.63 IF PAID IN 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton, KS 67114

ATTN: John Goldsmith

Duff #1

9-15s-32w Logan,KS

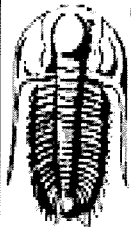
Start Date: 2015.10.02 @ 18:39:00

End Date: 2015.10.03 @ 00:16:45

Job Ticket #: 61830 DST #: 1

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

Printed: 2015.10.09 @ 11:32:18



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

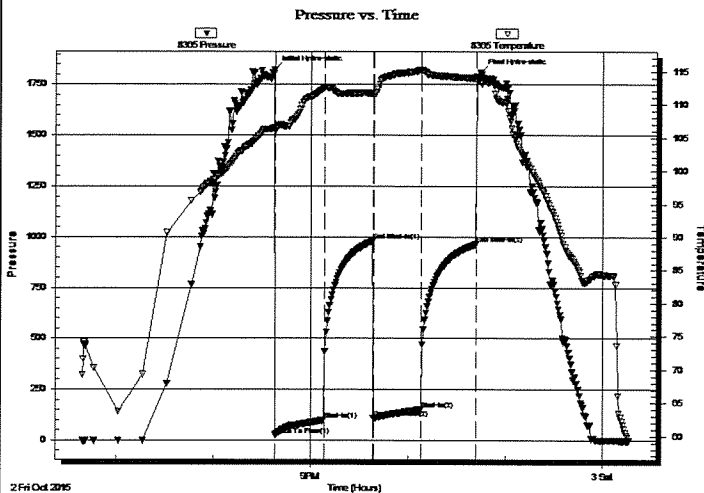
9-15s-32w Logan,KS
Duff #1
Job Ticket: 61830 **DST#: 1**
Test Start: 2015.10.02 @ 18:39:00

GENERAL INFORMATION:

Formation: **LKC D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:38:00
Time Test Ended: 00:16:45
Interval: **3723.00 ft (KB) To 3752.00 ft (KB) (TVD)**
Total Depth: 3752.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 69
Reference Elevations: 2708.00 ft (KB)
2703.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8365 **Inside**
Press@RunDepth: 152.00 psig @ 3724.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2015.10.02 End Date: 2015.10.03 Last Calib.: 2015.10.03
Start Time: 18:39:05 End Time: 00:16:44 Time On Btm: 2015.10.02 @ 20:37:45
Time Off Btm: 2015.10.02 @ 22:44:00

TEST COMMENT: IF: 7" blow.
IS: No return.
FF: 8" blow.
FS: No return.



PRESSURE SUMMARY

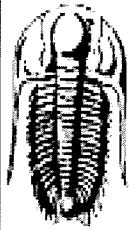
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.14	106.46	Initial Hydro-static
1	25.21	105.87	Open To Flow (1)
31	98.39	112.50	Shut-In(1)
60	980.02	111.63	End Shut-In(1)
61	108.34	111.47	Open To Flow (2)
90	152.00	115.17	Shut-In(2)
124	964.03	113.92	End Shut-In(2)
127	1809.47	113.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mcw 30m 70w	0.30
245.00	mcw 10m 90w (oil Spots in tool)	2.92

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: John Goldsmith

9-15s-32w Logan, KS
Duff #1
 Job Ticket: 61830 **DST#: 1**
 Test Start: 2015.10.02 @ 18:39:00

GENERAL INFORMATION:

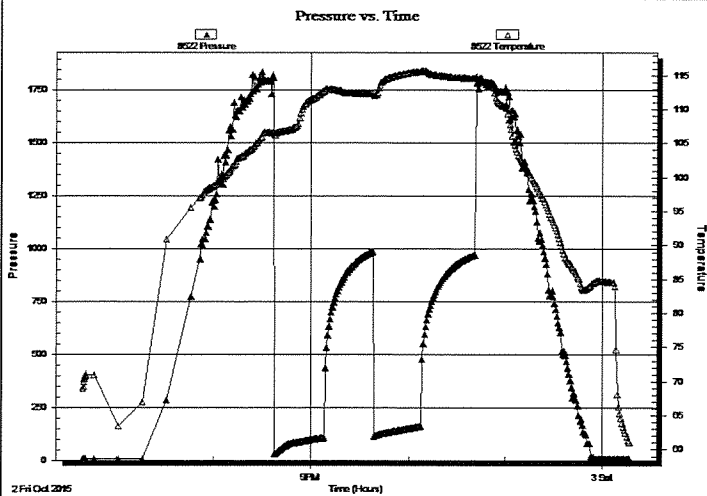
Formation: **LKC D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 20:38:00 Tester: Bradley Walter
 Time Test Ended: 00:16:45 Unit No: 69
 Interval: **3723.00 ft (KB) To 3752.00 ft (KB) (TVD)** Reference Elevations: 2708.00 ft (KB)
 Total Depth: 3752.00 ft (KB) (TVD) 2703.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8522

Outside

Press@RunDepth: psig @ 3724.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.10.02 End Date: 2015.10.03 Last Calib.: 2015.10.03
 Start Time: 18:39:05 End Time: 00:17:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 7" blow.
 IS: No return.
 FF: 8" blow.
 FSI: No return.



PRESSURE SUMMARY

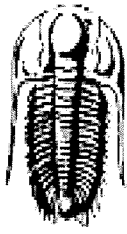
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mcw 30m 70w	0.30
245.00	mcw 10m 90w (oil Spots in tool)	2.92

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: John Goldsmith

9-15s-32w Logan,KS
Duff #1
Job Ticket: 61830 **DST#: 1**
Test Start: 2015.10.02 @ 18:39:00

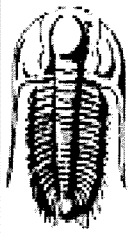
Tool Information

Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3723.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3697.00	
Shut In Tool	5.00			3702.00	
Hydraulic tool	5.00			3707.00	
Jars	5.00			3712.00	
Safety Joint	2.00			3714.00	
Packer	5.00			3719.00	27.00 Bottom Of Top Packer
Packer	4.00			3723.00	
Stubb	1.00			3724.00	
Recorder	0.00	8365	Inside	3724.00	
Recorder	0.00	8522	Outside	3724.00	
Perforations	25.00			3749.00	
Bullnose	3.00			3752.00	29.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61830

DST#: 1

ATTN: John Goldsmith

Test Start: 2015.10.02 @ 18:39:00

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:

48000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mcw 30m 70w	0.295
245.00	mcw 10m 90w (oil Spots in tool)	2.917

Total Length: 305.00 ft Total Volume: 3.212 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .180 @ 60F = 48,000ppm

Serial #: 8365

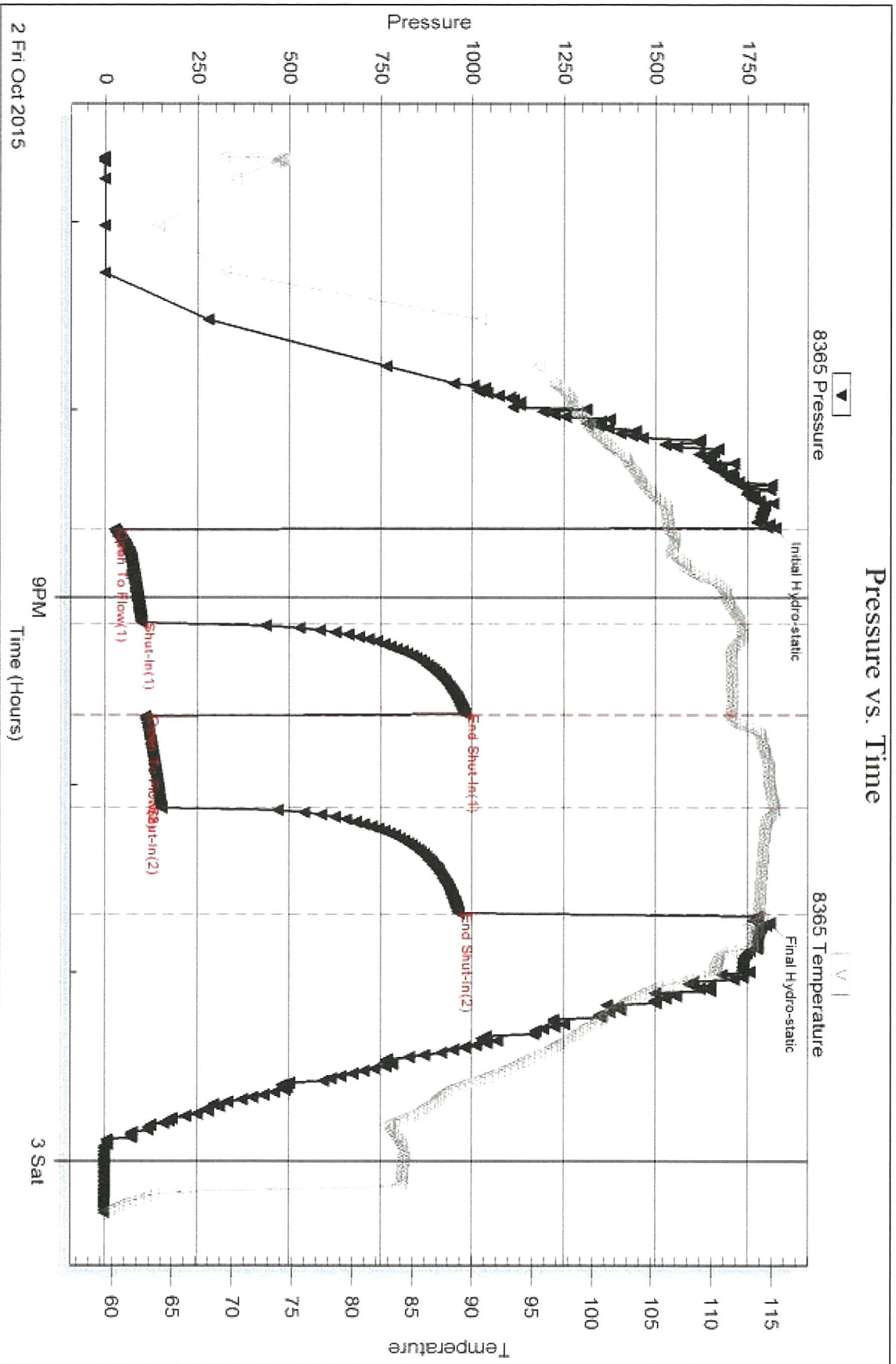
Inside

Palomino Petroleum, Inc

Duff #1

OST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 61830

Printed 2015 10 09 @ 11:32:19

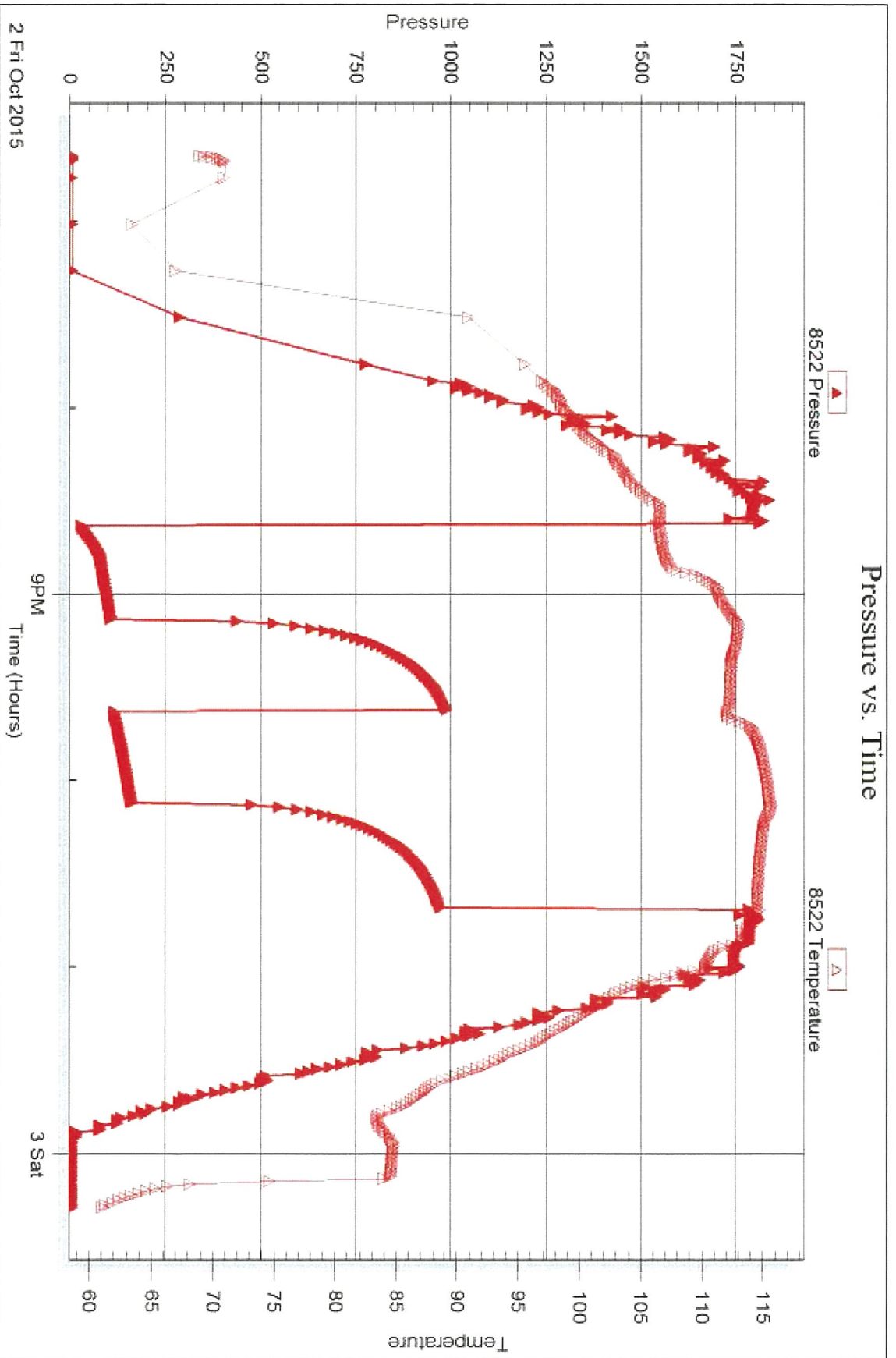
Serial #: 8522

Outside

Palomino Petroleum, Inc

Duff #1

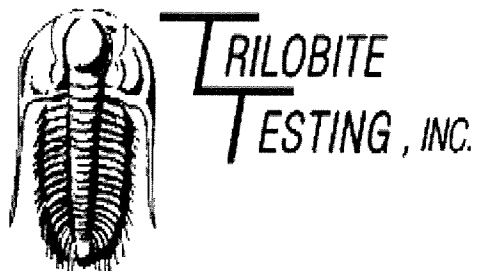
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61830

Printed: 2015 10 09 @ 11:32:19



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton, KS 67114

ATTN: John Goldsmith

Duff #1

9-15s-32w Logan,KS

Start Date: 2015.10.03 @ 07:12:00

End Date: 2015.10.03 @ 12:02:00

Job Ticket #: 61831 DST #: 2

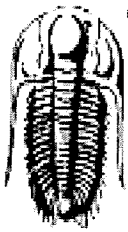
Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2015.10.09 @ 11:31:57

Palomino Petroleum, Inc
9-15s-32w Logan,KS
Duff #1
DST # 2
LKC E - F
2015.10.03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

9-15s-32w Logan, KS

4924 SE 84th St.
Newton, KS 67114

Duff #1

Job Ticket: 61831

DST#: 2

ATTN: John Goldsmith

Test Start: 2015.10.03 @ 07:12:00

GENERAL INFORMATION:

Formation: **LKC E - F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:37:00

Time Test Ended: 12:02:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **3754.00 ft (KB) To 3786.00 ft (KB) (TVD)**

Total Depth: 3786.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2708.00 ft (KB)

2703.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 40.94 psig @ 3755.00 ft (KB)

Start Date: 2015.10.03

End Date:

2015.10.03

Start Time: 07:12:05

End Time:

12:01:59

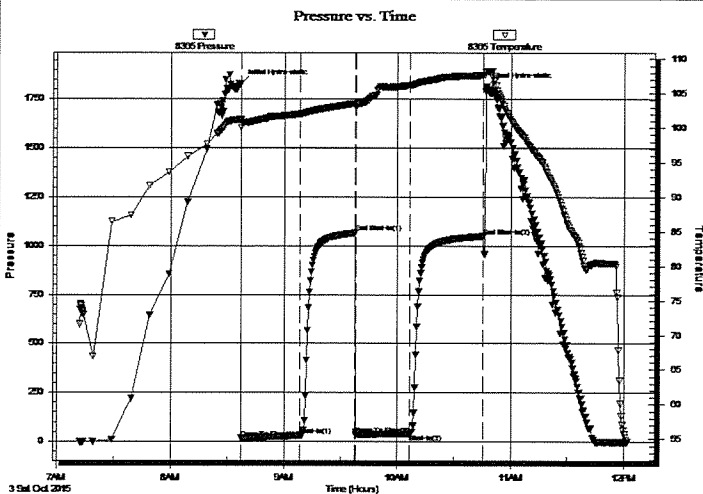
Capacity: 8000.00 psig

Last Calib.: 2015.10.03

Time On Btm: 2015.10.03 @ 08:36:45

Time Off Btm: 2015.10.03 @ 10:47:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1829.22	101.22	Initial Hydro-static
1	16.47	100.05	Open To Flow (1)
32	30.90	102.02	Shut-In(1)
61	1065.61	103.56	End Shut-In(1)
62	33.40	103.34	Open To Flow (2)
90	40.94	106.18	Shut-In(2)
129	1050.29	107.67	End Shut-In(2)
131	1817.42	108.10	Final Hydro-static

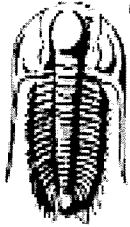
Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 10w 90m (oil spots)	0.30
0.00	30' 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: John Goldsmith

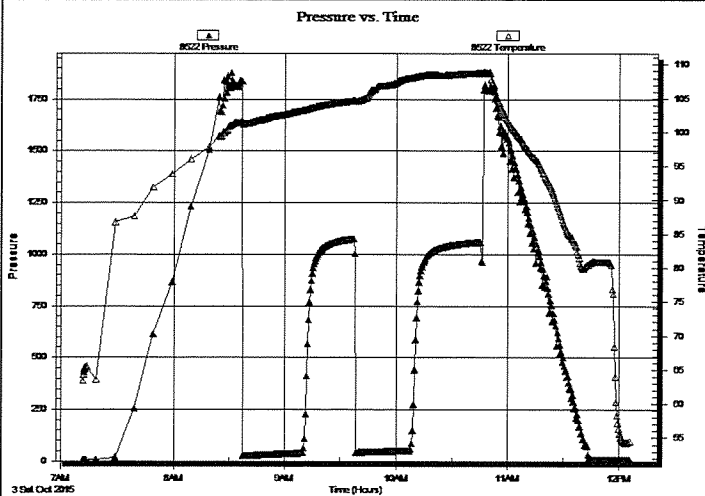
9-15s-32w Logan,KS
Duff #1
Job Ticket: 61831 **DST#: 2**
Test Start: 2015.10.03 @ 07:12:00

GENERAL INFORMATION:

Formation: **LKC E - F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:37:00
Time Test Ended: 12:02:00
Test Type: Conventional Bottom Hole (Reset)
Tester: Bradley Walter
Unit No: 69
Interval: **3754.00 ft (KB) To 3786.00 ft (KB) (TVD)**
Reference Elevations: 2708.00 ft (KB)
2703.00 ft (CF)
Total Depth: 3786.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Good
KB to GR/CF: 5.00 ft

Serial #: 8522 Outside
Press@RunDepth: psig @ 3755.00 ft (KB)
Capacity: 8000.00 psig
Start Date: 2015.10.03 End Date: 2015.10.03 Last Calib.: 2015.10.03
Start Time: 07:12:05 End Time: 12:05:44 Time On Btm: Time Off Btm:

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



PRESSURE SUMMARY

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

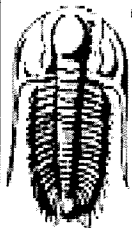
Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 10w 90m (oil spots)	0.30
0.00	30' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61831

DST#: 2

ATTN: John Goldsmith

Test Start: 2015.10.03 @ 07:12:00

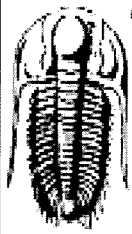
Tool Information

Drill Pipe:	Length: 3641.00 ft	Diameter: 3.80 inches	Volume: 51.07 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 51.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3754.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 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			3728.00	
Shut In Tool	5.00			3733.00	
Hydraulic tool	5.00			3738.00	
Jars	5.00			3743.00	
Safety Joint	2.00			3745.00	
Packer	5.00			3750.00	27.00 Bottom Of Top Packer
Packer	4.00			3754.00	
Stubb	1.00			3755.00	
Recorder	0.00	8365	Inside	3755.00	
Recorder	0.00	8522	Outside	3755.00	
Perforations	28.00			3783.00	
Bullnose	3.00			3786.00	32.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61831

DST#: 2

ATTN: John Goldsmith

Test Start: 2015.10.03 @ 07:12:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 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 bbl
60.00	w cm 10w 90m (oil spots)	0.295
0.00	30' GIP	0.000

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

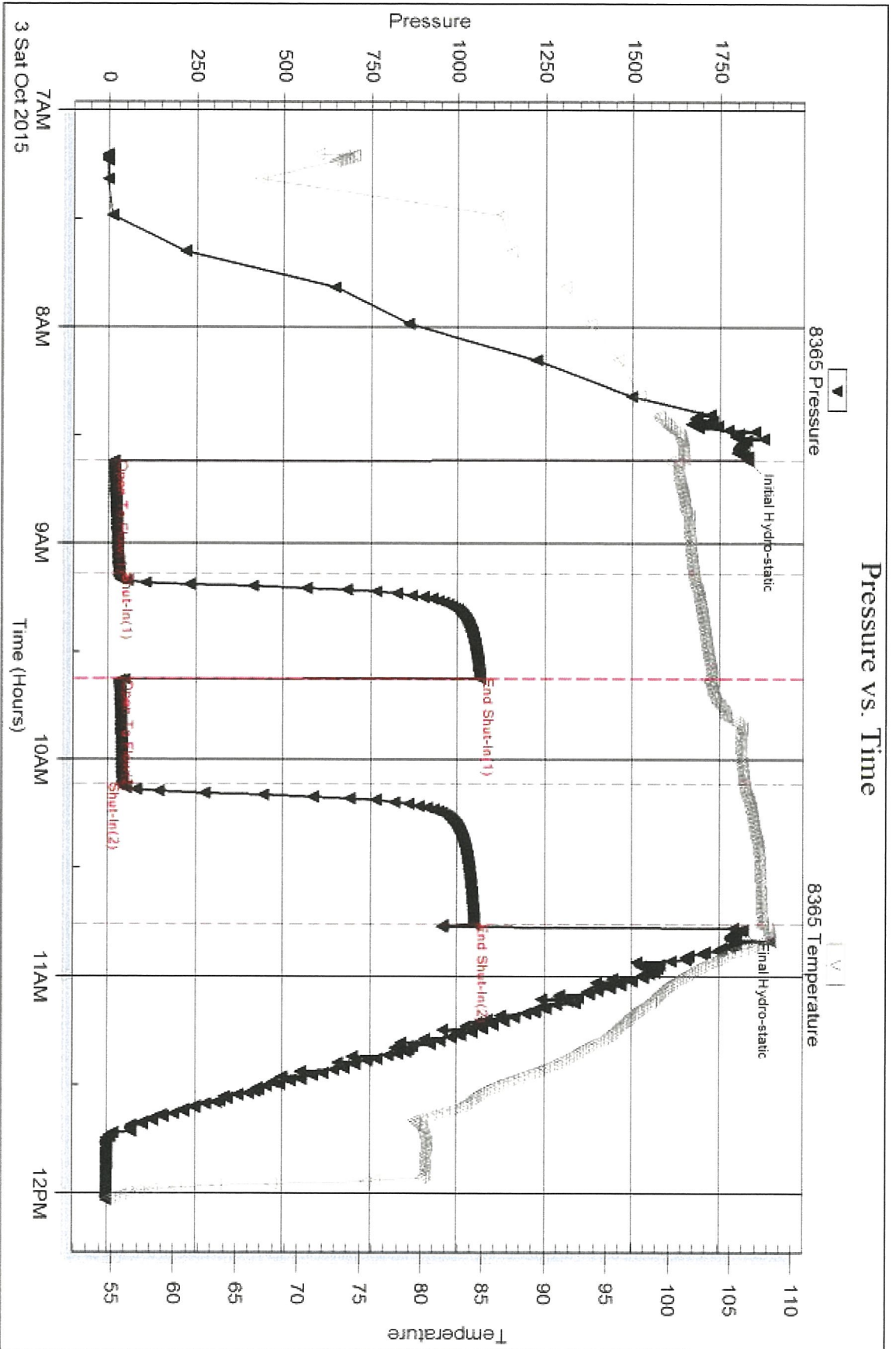
Serial #: 8365

Inside

Palomino Petroleum, Inc

Duff #1

DST Test Number: 2

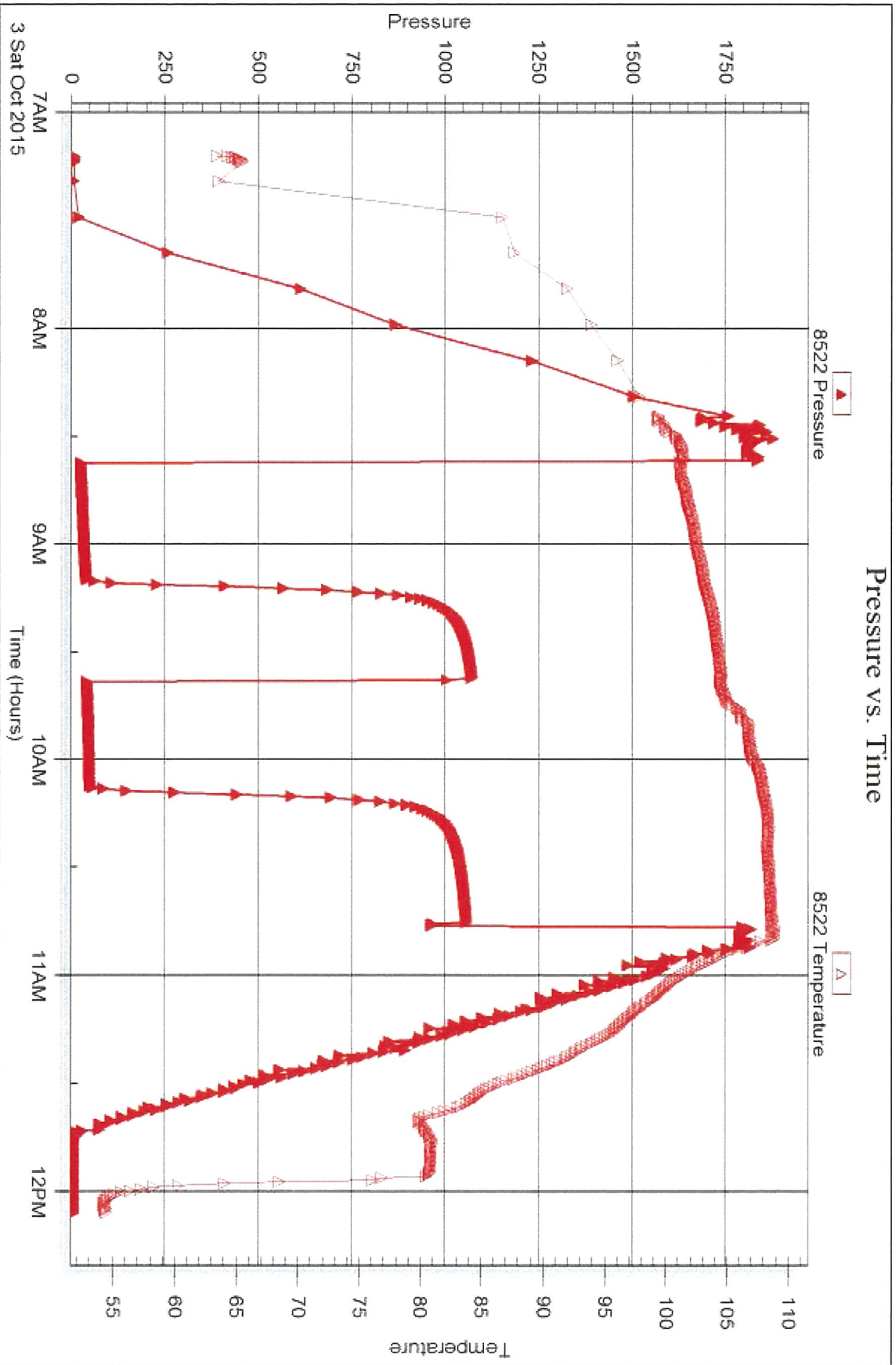


Serial #: 8522

Outside Palomino Petroleum, Inc

Duff #1

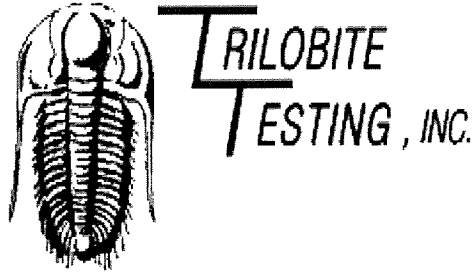
DST Test Number: 2



Tribble Testing, Inc

Ref. No: 61831

Printed 2015 10 09 @ 11 31 58



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton, KS 67114

ATTN: John Goldsmith

Duff #1

9-15s-32w Logan,KS

Start Date: 2015.10.04 @ 03:15:00

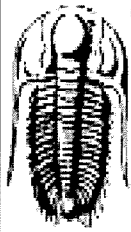
End Date: 2015.10.04 @ 08:07:30

Job Ticket #: 61832 DST #: 3

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

Printed: 2015.10.09 @ 11:31:34

Palomino Petroleum, Inc
9-15s-32w Logan,KS
Duff #1
DST # 3
LKC H - J
2015.10.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

9-15s-32w Logan,KS

Duff #1

Job Ticket: 61832

DST#: 3

Test Start: 2015.10.04 @ 03:15:00

GENERAL INFORMATION:

Formation: **LKC H - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:34:15

Time Test Ended: 08:07:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **3832.00 ft (KB) To 3923.00 ft (KB) (TVD)**

Total Depth: 3752.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2708.00 ft (KB)

2703.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 102.27 psig @ 3833.00 ft (KB)

Start Date: 2015.10.04

End Date:

2015.10.04

Capacity: 8000.00 psig

Last Calib.: 2015.10.04

Start Time: 03:15:05

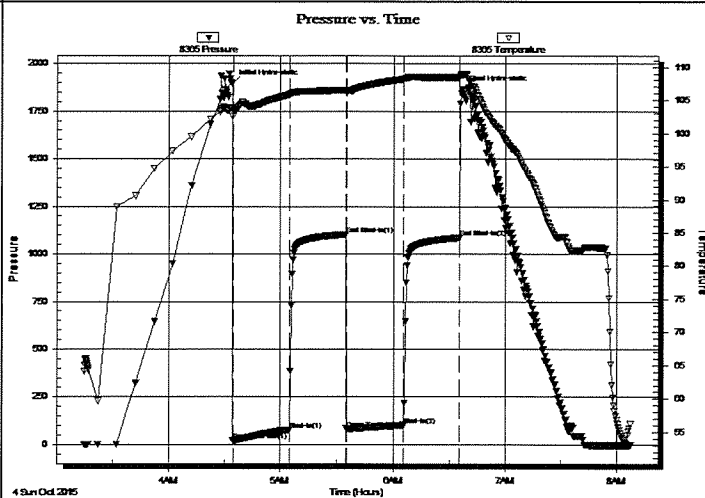
End Time:

08:07:29

Time On Btm: 2015.10.04 @ 04:34:00

Time Off Btm: 2015.10.04 @ 06:36:45

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.08	103.82	Initial Hydro-static
1	18.38	102.56	Open To Flow (1)
31	76.59	105.81	Shut-in(1)
61	1102.82	106.50	End Shut-In(1)
62	82.33	106.03	Open To Flow (2)
92	102.27	108.18	Shut-In(2)
121	1085.67	108.43	End Shut-In(2)
123	1863.65	108.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	w cm 10w 90m	1.46

* 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: John Goldsmith

9-15s-32w Logan,KS

Duff #1

Job Ticket: 61832

DST#: 3

Test Start: 2015.10.04 @ 03:15:00

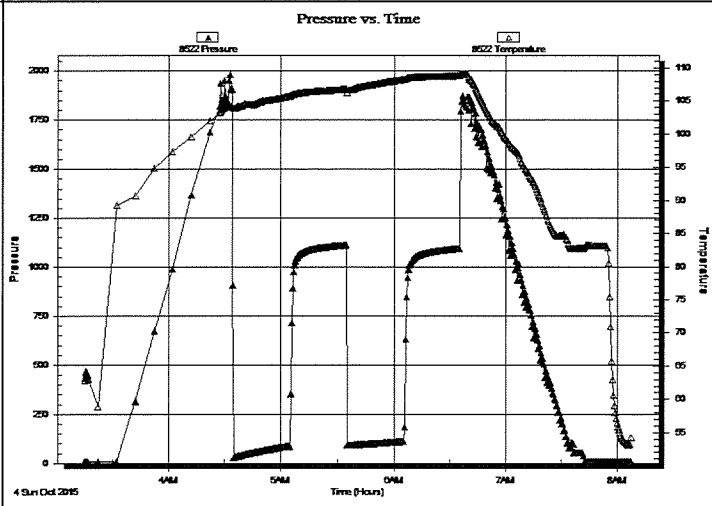
GENERAL INFORMATION:

Formation:	LKC H - J		Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock:	ft (KB)	Tester:	Bradley Walter
Time Tool Opened:	04:34:15		Unit No:	69
Time Test Ended:	08:07:30		Reference Elevations:	2708.00 ft (KB)
Interval:	3832.00 ft (KB) To	3923.00 ft (KB) (TVD)		2703.00 ft (CF)
Total Depth:	3752.00 ft (KB) (TVD)		KB to GR/CF:	5.00 ft
Hole Diameter:	7.88 inches	Hole Condition: Good		

Serial #: 8522 **Outside**

Press@RunDepth:	psig @	3833.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2015.10.04	End Date:	2015.10.04	Last Calib.:	2015.10.04
Start Time:	03:15:05	End Time:	08:07:29	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF: 3 1/2" blow.
 IS: No return.
 FF: 3" blow.
 FSI: No return.



PRESSURE SUMMARY

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

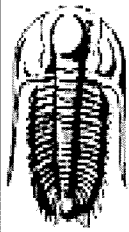
Recovery

Length (ft)	Description	Volume (bbl)
180.00	w cm 10w 90m	1.46

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

9-15s-32w Logan,KS
Duff #1
Job Ticket: 61832 **DST#: 3**
Test Start: 2015.10.04 @ 03:15:00

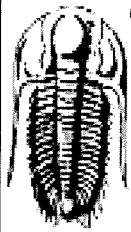
Tool Information

Drill Pipe:	Length: 3703.00 ft	Diameter: 3.80 inches	Volume: 51.94 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 73000.00 lb
			<u>Total Volume: 52.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3832.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	118.00 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	8522	Outside	3833.00	
Perforations	23.00			3856.00	
Change Over Sub	1.00			3857.00	
Drill Pipe	62.00			3919.00	
Change Over Sub	1.00			3920.00	
Bullnose	3.00			3923.00	91.00 Bottom Packers & Anchor

Total Tool Length: 118.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61832

DST#: 3

ATTN: John Goldsmith

Test Start: 2015.10.04 @ 03:15:00

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:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	w cm 10w 90m	1.459

Total Length: 180.00 ft

Total Volume: 1.459 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

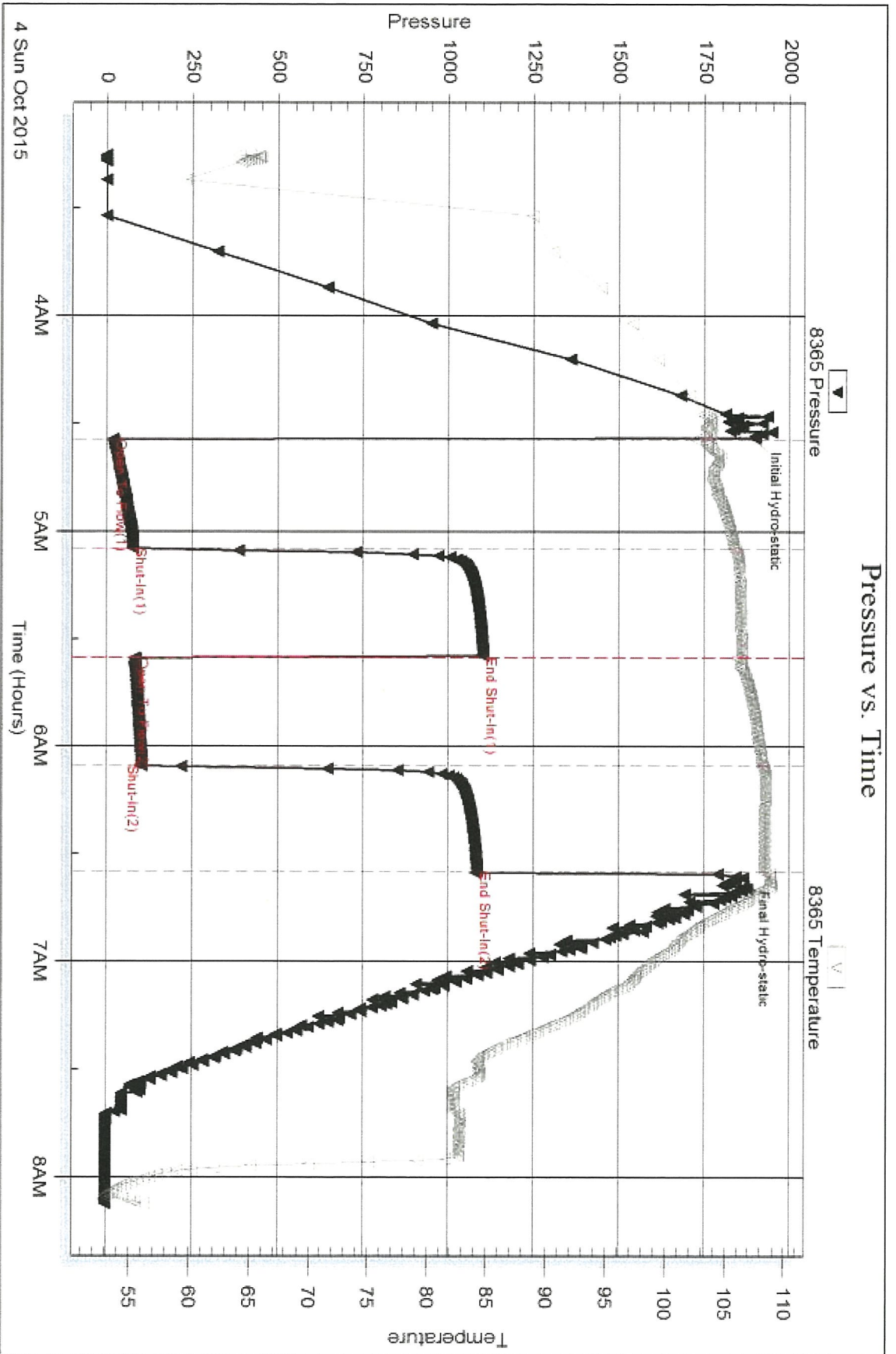
Inside

Palomino Petroleum, Inc

Duff #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 61832

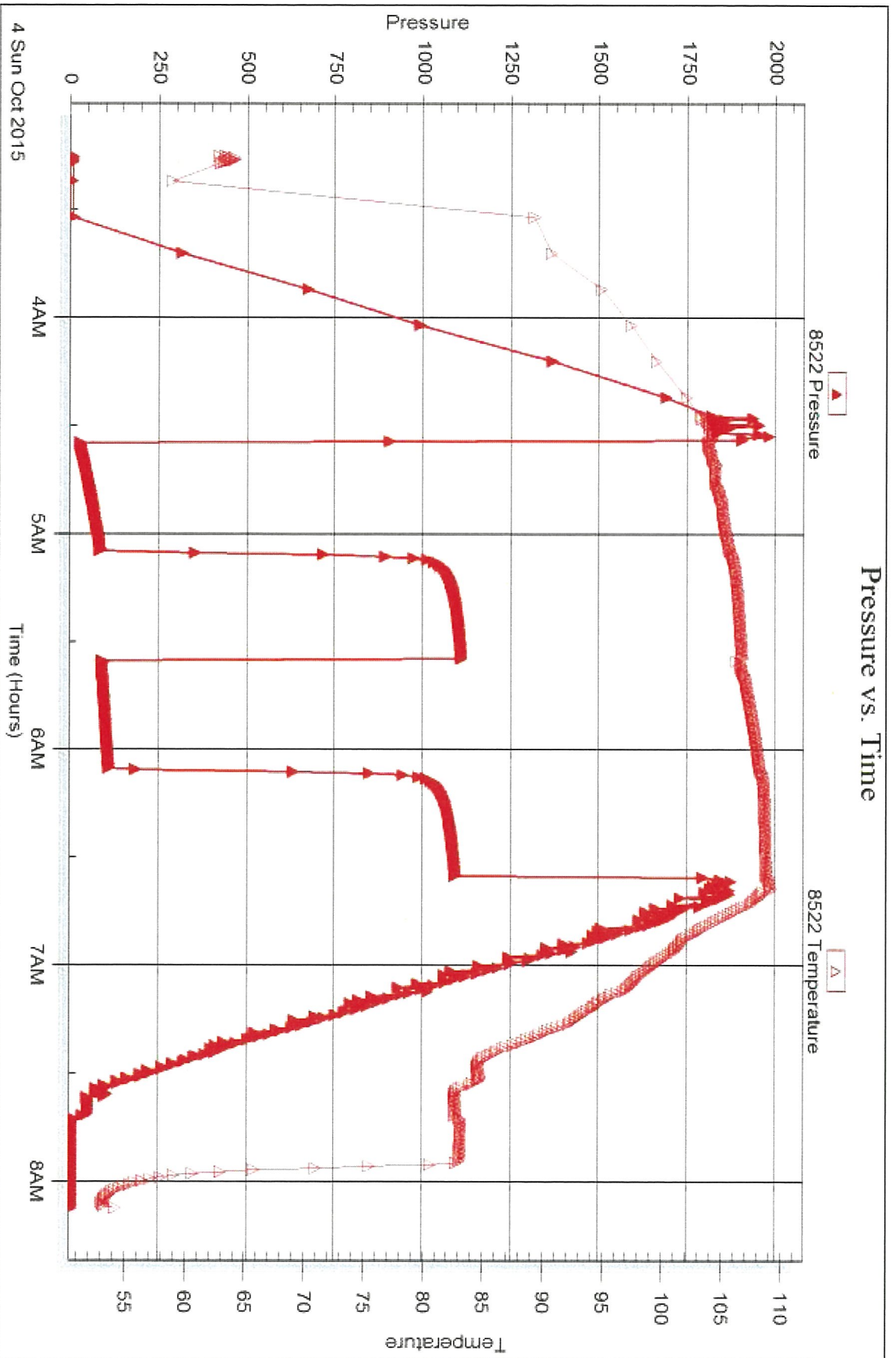
Printed 2015 10 09 @ 11:31:35

Serial #: 8522

Outside Palomino Petroleum, Inc

Duff #1

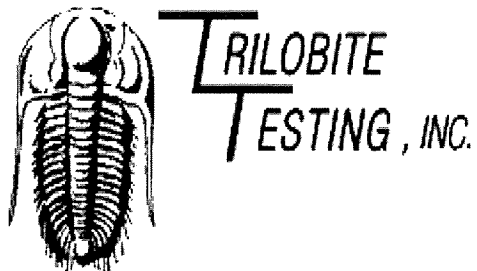
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 61832

Printed 2015 10 09 @ 11:31:36



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton, KS 67114

ATTN: John Goldsmith

Duff #1

9-15s-32w Logan,KS

Start Date: 2015.10.04 @ 14:40:00

End Date: 2015.10.04 @ 20:50:45

Job Ticket #: 61833 DST #: 4

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2015.10.09 @ 11:31:10

Palomino Petroleum, Inc 9-15s-32w Logan,KS Duff #1 DST # 4 LCK K 2015.10.04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

9-15s-32w Logan, KS

4924 SE 84th St.
Newton, KS 67114

Duff #1

Job Ticket: 61833

DST#: 4

ATTN: John Goldsmith

Test Start: 2015.10.04 @ 14:40:00

GENERAL INFORMATION:

Formation: **LCK K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:01:30

Time Test Ended: 20:50:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **3921.00 ft (KB) To 3963.00 ft (KB) (TVD)**

Reference Elevations: 2708.00 ft (KB)

Total Depth: 3963.00 ft (KB) (TVD)

2703.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 100.82 psig @ 3922.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.04

End Date: 2015.10.04

Last Calib.: 1899.12.30

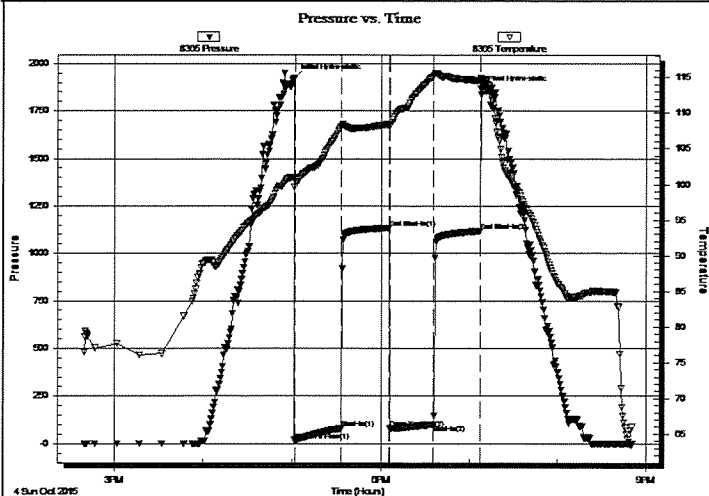
Start Time: 14:40:05

End Time: 20:50:44

Time On Btm: 2015.10.04 @ 17:01:15

Time Off Btm: 2015.10.04 @ 19:07:45

TEST COMMENT: IF: 4" blow.
ISI: No return.
FF: 2 1/2" blow.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.19	101.01	Initial Hydro-static
1	15.19	99.63	Open To Flow (1)
32	76.98	108.02	Shut-In(1)
65	1134.06	108.38	End Shut-In(1)
65	78.17	108.13	Open To Flow (2)
94	100.82	115.20	Shut-In(2)
127	1117.62	114.53	End Shut-In(2)
127	1864.57	114.92	Final Hydro-static

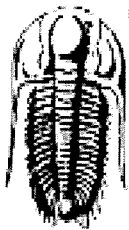
Recovery

Length (ft)	Description	Volume (bbl)
190.00	w cm 10w 90m	1.60

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61833

DST#: 4

ATTN: John Goldsmith

Test Start: 2015.10.04 @ 14:40:00

GENERAL INFORMATION:

Formation: LCK K

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:01:30

Time Test Ended: 20:50:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 3921.00 ft (KB) To 3963.00 ft (KB) (TVD)

Reference Elevations: 2708.00 ft (KB)

Total Depth: 3963.00 ft (KB) (TVD)

2703.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522

Outside

Press@RunDepth: psig @ 3922.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.04

End Date: 2015.10.04

Last Calib.: 2015.10.04

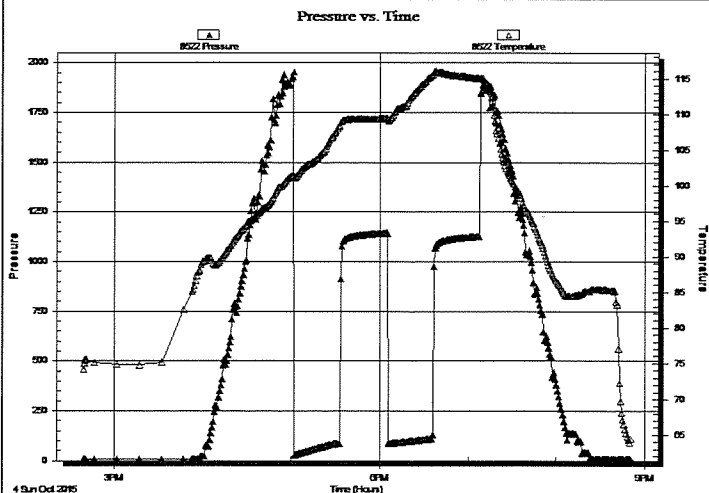
Start Time: 14:40:05

End Time: 20:50:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 4" blow.
ISI: No return.
FF: 2 1/2" blow.
FSI: No return.



PRESSURE SUMMARY

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

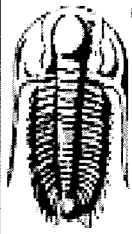
Recovery

Length (ft)	Description	Volume (bbl)
190.00	w cm 10w 90m	1.60

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

9-15s-32w Logan,KS
Duff #1
Job Ticket: 61833 **DST#: 4**
Test Start: 2015.10.04 @ 14:40:00

Tool Information

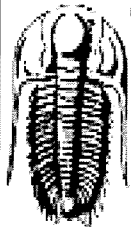
Drill Pipe:	Length: 3800.00 ft	Diameter: 3.80 inches	Volume: 53.30 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 53.88 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3921.00 ft			Final 61000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3895.00	
Shut In Tool	5.00			3900.00	
Hydraulic tool	5.00			3905.00	
Jars	5.00			3910.00	
Safety Joint	2.00			3912.00	
Packer	5.00			3917.00	27.00 Bottom Of Top Packer
Packer	4.00			3921.00	
Stubb	1.00			3922.00	
Recorder	0.00	8365	Inside	3922.00	
Recorder	0.00	8522	Outside	3922.00	
Perforations	5.00			3927.00	
Change Over Sub	1.00			3928.00	
Drill Pipe	31.00			3959.00	
Change Over Sub	1.00			3960.00	
Bullnose	3.00			3963.00	42.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61833

DST#: 4

ATTN: John Goldsmith

Test Start: 2015.10.04 @ 14:40:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	w cm 10w 90m	1.599

Total Length: 190.00 ft

Total Volume: 1.599 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

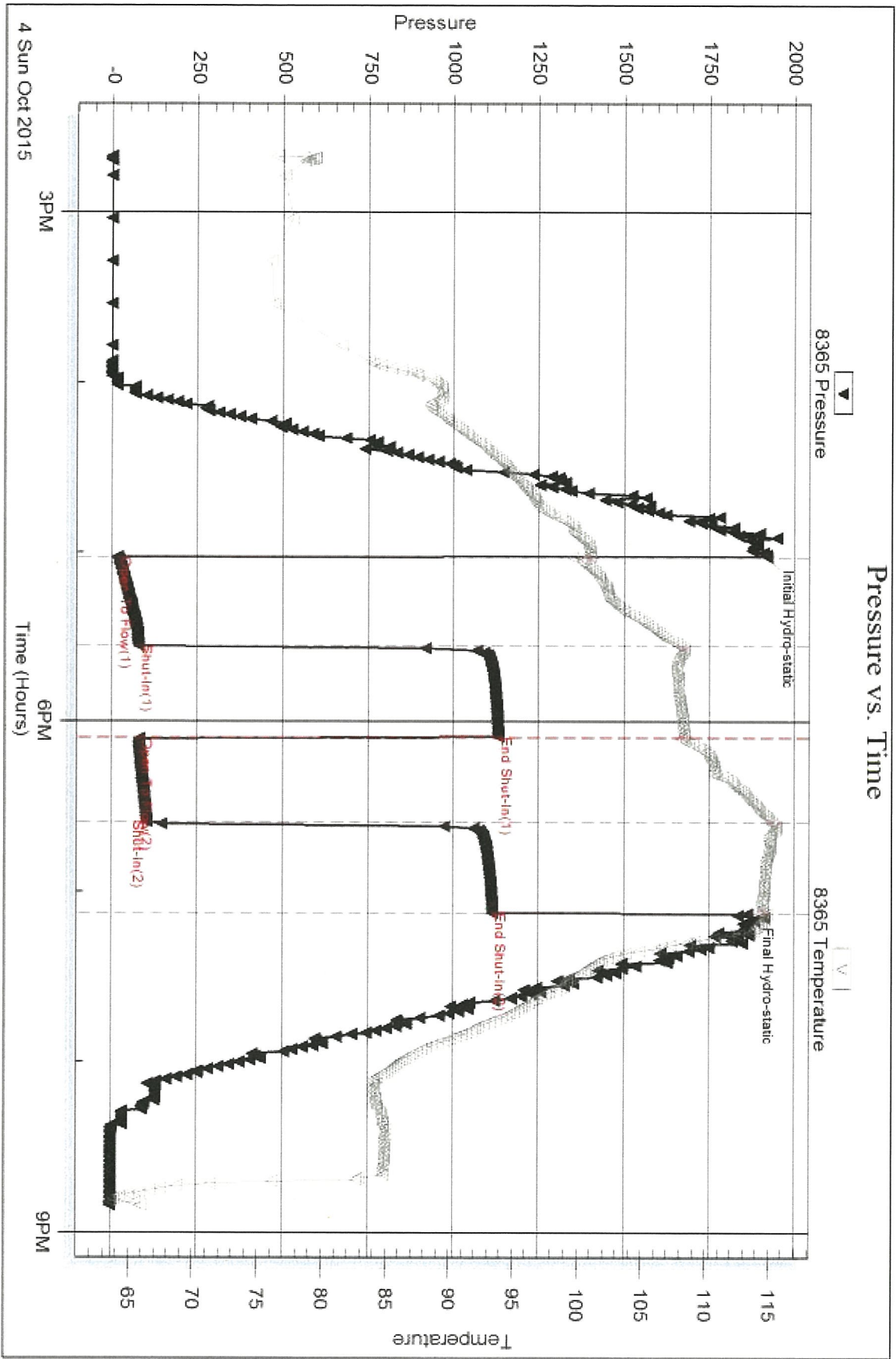
Inside

Palomino Petroleum, Inc

Duff #1

DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 61833

Printed 2015 10 09 @ 11:31:11

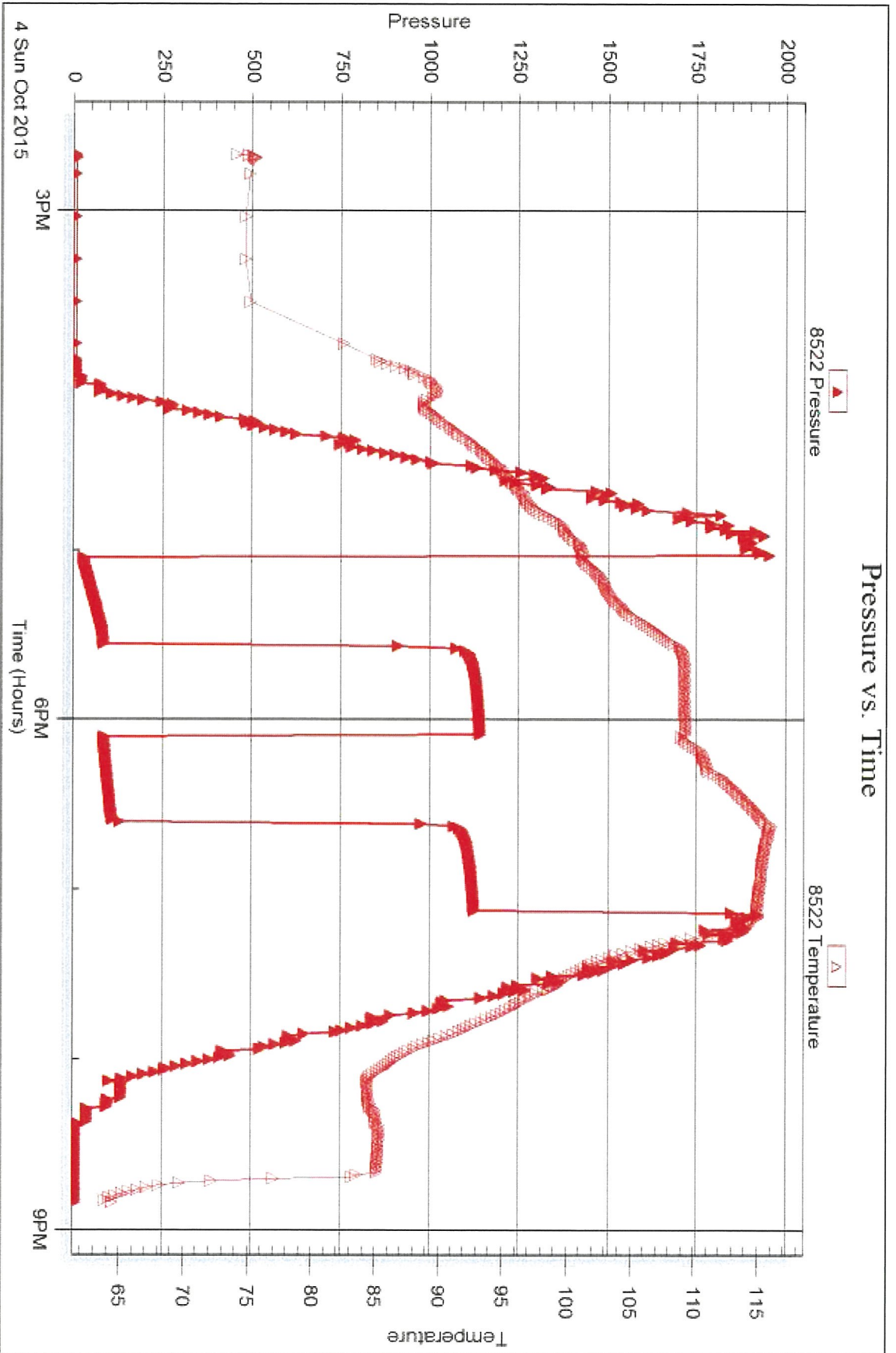
Serial #: 8522

Outside

Palomino Petroleum, Inc

Duff #1

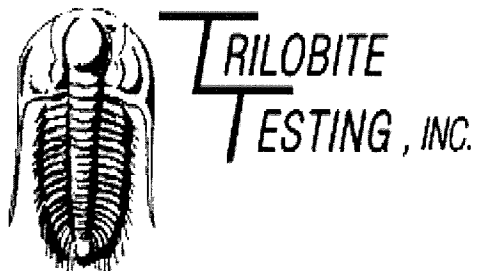
OST Test Number: 4



Triobite Testing, Inc

Ref. No: 61833

Printed 2015 10 09 @ 11:31:11



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton, KS 67114

ATTN: John Goldsmith

Duff #1

9-15s-32w Logan,KS

Start Date: 2015.10.05 @ 04:19:00

End Date: 2015.10.05 @ 09:37:45

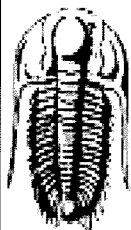
Job Ticket #: 61834 DST #: 5

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2015.10.09 @ 11:30:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

9-15s-32w Logan, KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61834

DST#: 5

ATTN: John Goldsmith

Test Start: 2015.10.05 @ 04:19:00

GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:56:00

Time Test Ended: 09:37:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **3962.00 ft (KB) To 3968.00 ft (KB) (TVD)**

Reference Elevations: 2708.00 ft (KB)

Total Depth: 3998.00 ft (KB) (TVD)

2703.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 555.24 psig @ 3963.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.05

End Date: 2015.10.05

Last Calib.: 2015.10.05

Start Time: 04:19:05

End Time: 09:37:44

Time On Btm: 2015.10.05 @ 05:55:45

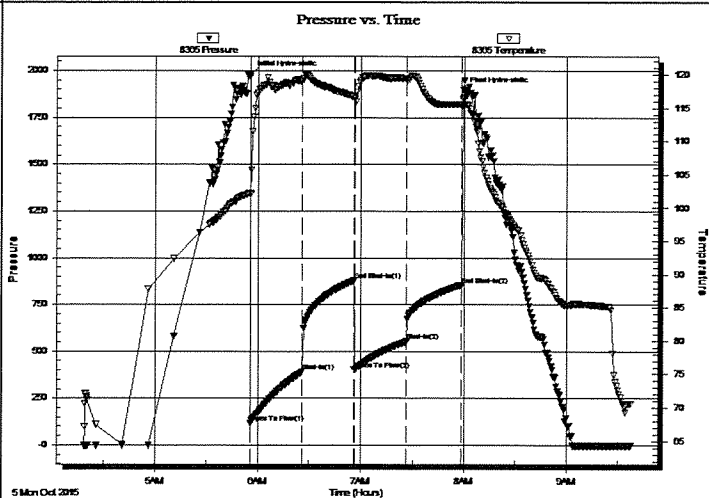
Time Off Btm: 2015.10.05 @ 07:59:30

TEST COMMENT: IF: BOB @ 1 1/2 min.

ISI: No return.

FF: BOB @ 2 min.

FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1979.12	102.26	Initial Hydro-static
1	116.25	102.04	Open To Flow (1)
31	389.92	119.06	Shut-In(1)
61	877.05	116.61	End Shut-In(1)
61	400.48	116.34	Open To Flow (2)
91	555.24	119.43	Shut-In(2)
123	855.30	115.53	End Shut-In(2)
124	1895.12	116.57	Final Hydro-static

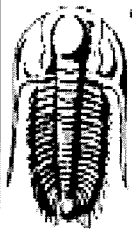
Recovery

Length (ft)	Description	Volume (bbl)
1320.00	mcw 5m 95w	17.45

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

9-15s-32w Logan, KS

4924 SE 84th St.
Newton, KS 67114

Duff #1

Job Ticket: 61834

DST#: 5

ATTN: John Goldsmith

Test Start: 2015.10.05 @ 04:19:00

GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:56:00

Time Test Ended: 09:37:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 3962.00 ft (KB) To 3968.00 ft (KB) (TVD)

Reference Elevations: 2708.00 ft (KB)

Total Depth: 3998.00 ft (KB) (TVD)

2703.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press@RunDepth: psig @ 3963.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.05

End Date:

2015.10.05

Last Calib.:

2015.10.05

Start Time: 04:19:05

End Time:

09:37:44

Time On Btm:

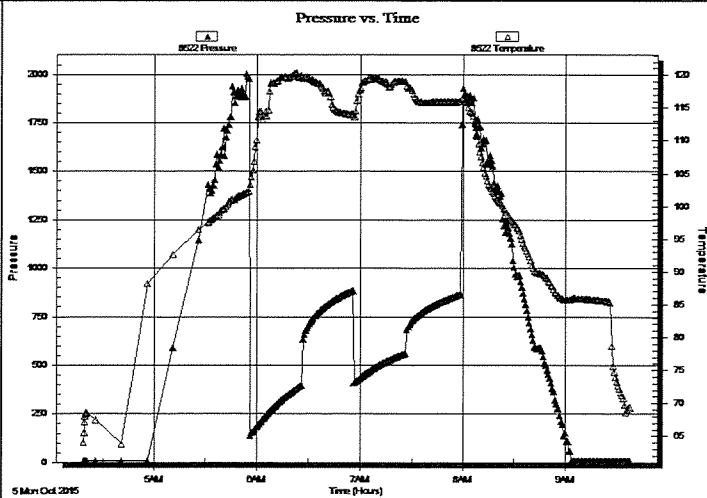
Time Off Btm:

TEST COMMENT: IF: BOB @ 1 1/2 min.

IS: No return.

FF: BOB @ 2 min.

FS: No return.



PRESSURE SUMMARY

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

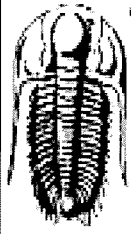
Recovery

Length (ft)	Description	Volume (bbl)
1320.00	mcw 5m 95w	17.45

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

9-15s-32w Logan,KS
Duff #1
Job Ticket: 61834 **DST#: 5**
Test Start: 2015.10.05 @ 04:19:00

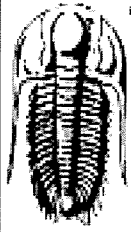
Tool Information

Drill Pipe:	Length: 3828.00 ft	Diameter: 3.80 inches	Volume: 53.70 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3962.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 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			3936.00	
Shut In Tool	5.00			3941.00	
Hydraulic tool	5.00			3946.00	
Jars	5.00			3951.00	
Safety Joint	2.00			3953.00	
Packer	5.00			3958.00	27.00 Bottom Of Top Packer
Packer	4.00			3962.00	
Stubb	1.00			3963.00	
Recorder	0.00	8365	Inside	3963.00	
Recorder	0.00	8522	Outside	3963.00	
Perforations	32.00			3995.00	
Bullnose	3.00			3998.00	36.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

9-15s-32w Logan,KS
Duff #1
Job Ticket: 61834 **DST#: 5**
Test Start: 2015.10.05 @ 04:19:00

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:	65000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1320.00	mcw 5m 95w	17.450

Total Length: 1320.00 ft Total Volume: 17.450 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: rw is .137 @ 60F = 65,000ppm

Serial #: 8365

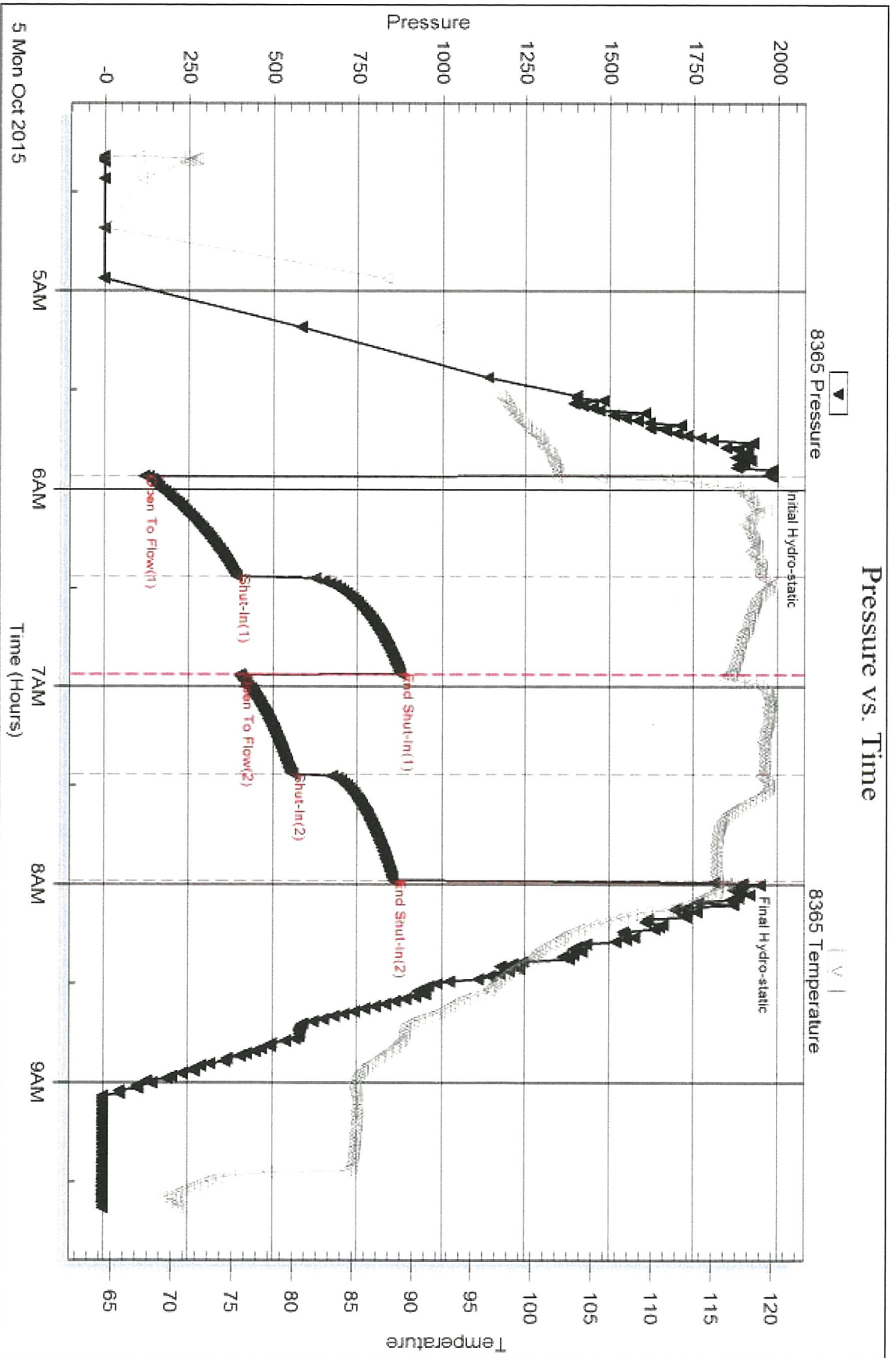
Inside

Palomino Petroleum, Inc

Duff #1

OST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 61834

Printed 2015 10 09 @ 11 30 50

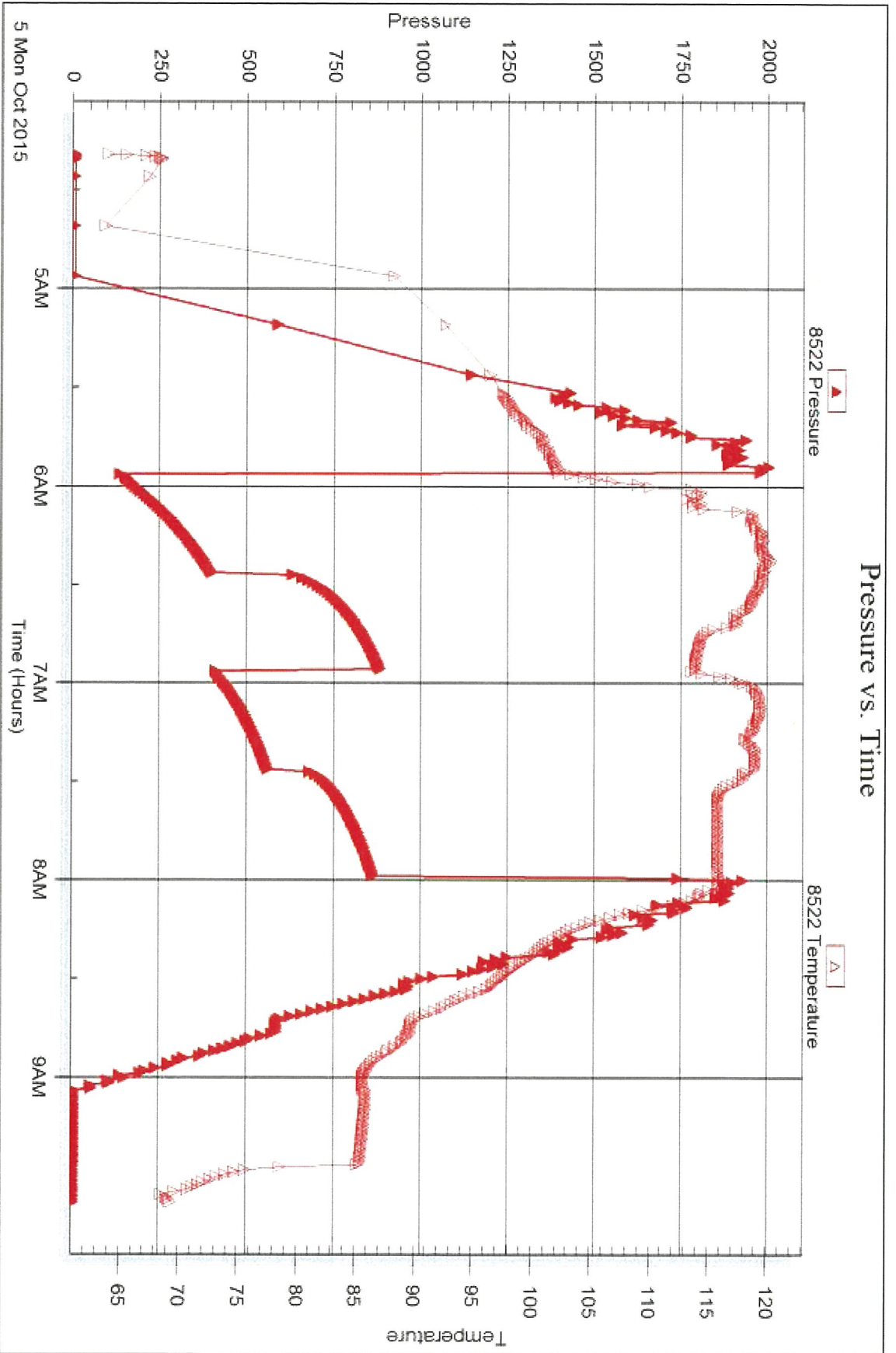
Serial #: 8522

Outside

Palomino Petroleum, Inc

Duff #1

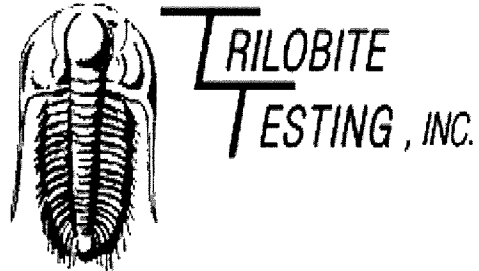
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 61834

Printed 2015 10 09 @ 11:30:50



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton, KS 67114

ATTN: John Goldsmith

Duff #1

9-15s-32w Logan,KS

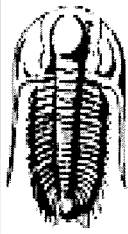
Start Date: 2015.10.06 @ 12:42:00

End Date: 2015.10.06 @ 20:03:30

Job Ticket #: 61835 DST #: 6

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

Printed: 2015.10.09 @ 11:30:05



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum, Inc
 4924 SE 84th St.
 Newton, KS 67114
 ATTN: John Goldsmith

9-15s-32w Logan, KS

Duff #1

Job Ticket: 61835

DST#: 6

Test Start: 2015.10.06 @ 12:42:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:46:45

Time Test Ended: 20:03:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4185.00 ft (KB) To 4285.00 ft (KB) (TVD)**

Reference Elevations: 2708.00 ft (KB)

Total Depth: 4185.00 ft (KB) (TVD)

2703.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 125.66 psig @ 4186.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.06

End Date: 2015.10.06

Last Calib.: 2015.10.06

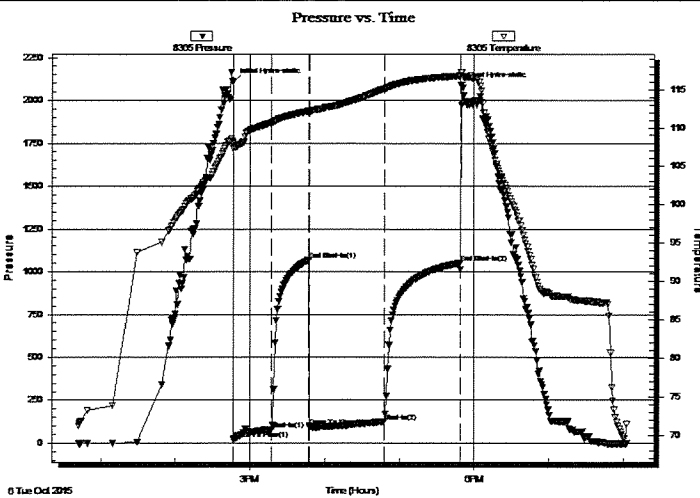
Start Time: 12:42:05

End Time: 20:03:29

Time On Btm: 2015.10.06 @ 14:46:30

Time Off Btm: 2015.10.06 @ 17:49:15

TEST COMMENT: IF: 4 1/2" blow.
 IS: No return.
 FF: 3 1/2" blow.
 FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.54	108.08	Initial Hydro-static
1	21.37	107.30	Open To Flow (1)
31	80.17	110.67	Shut-In(1)
61	1069.23	112.15	End Shut-In(1)
61	94.54	112.00	Open To Flow (2)
121	125.66	115.04	Shut-In(2)
182	1050.05	116.76	End Shut-In(2)
183	2087.20	117.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gw ocm 10g 20o 20w 50m	0.62
120.00	gw ocm 10g 25o 10w 55m	1.68
0.00	60' 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

9-15s-32w Logan, KS

4924 SE 84th St.
Newton, KS 67114

Duff #1

Job Ticket: 61835

DST#: 6

ATTN: John Goldsmith

Test Start: 2015.10.06 @ 12:42:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:46:45

Time Test Ended: 20:03:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4185.00 ft (KB) To 4285.00 ft (KB) (TVD)**

Reference Elevations: 2708.00 ft (KB)

Total Depth: 4185.00 ft (KB) (TVD)

2703.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press@RunDepth: psig @ 4186.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.06

End Date:

2015.10.06

Last Calib.:

2015.10.06

Start Time: 12:42:05

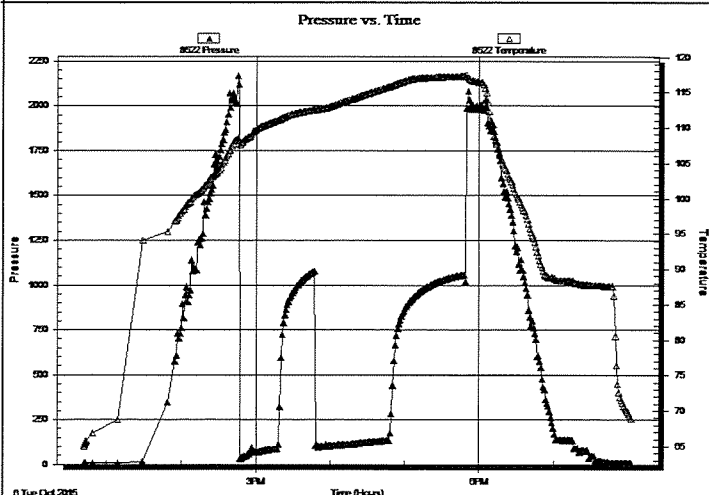
End Time:

20:03:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 4 1/2" blow.
ISI: No return.
FF: 3 1/2" blow.
FSI: No return.



PRESSURE SUMMARY

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

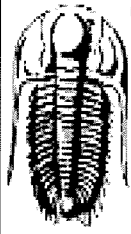
Recovery

Length (ft)	Description	Volume (bbl)
120.00	gw ocm 10g 20o 20w 50m	0.62
120.00	gw ocm 10g 25o 10w 55m	1.68
0.00	60' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

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

9-15s-32w Logan,KS
Duff #1
Job Ticket: 61835 **DST#: 6**
Test Start: 2015.10.06 @ 12:42:00

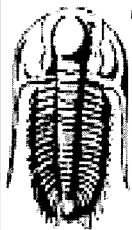
Tool Information

Drill Pipe:	Length: 4048.00 ft	Diameter: 3.80 inches	Volume: 56.78 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4185.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	127.00 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			4159.00	
Shut In Tool	5.00			4164.00	
Hydraulic tool	5.00			4169.00	
Jars	5.00			4174.00	
Safety Joint	2.00			4176.00	
Packer	5.00			4181.00	27.00 Bottom Of Top Packer
Packer	4.00			4185.00	
Stubb	1.00			4186.00	
Recorder	0.00	8365	Inside	4186.00	
Recorder	0.00	8522	Outside	4186.00	
Perforations	32.00			4218.00	
Change Over Sub	1.00			4219.00	
Drill Pipe	62.00			4281.00	
Change Over Sub	1.00			4282.00	
Bullnose	3.00			4285.00	100.00 Bottom Packers & Anchor

Total Tool Length: 127.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61835

DST#: 6

ATTN: John Goldsmith

Test Start: 2015.10.06 @ 12:42:00

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:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gw ocm 10g 20o 20w 50m	0.617
120.00	gw ocm 10g 25o 10w 55m	1.683
0.00	60' GIP	0.000

Total Length: 240.00 ft

Total Volume: 2.300 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8365

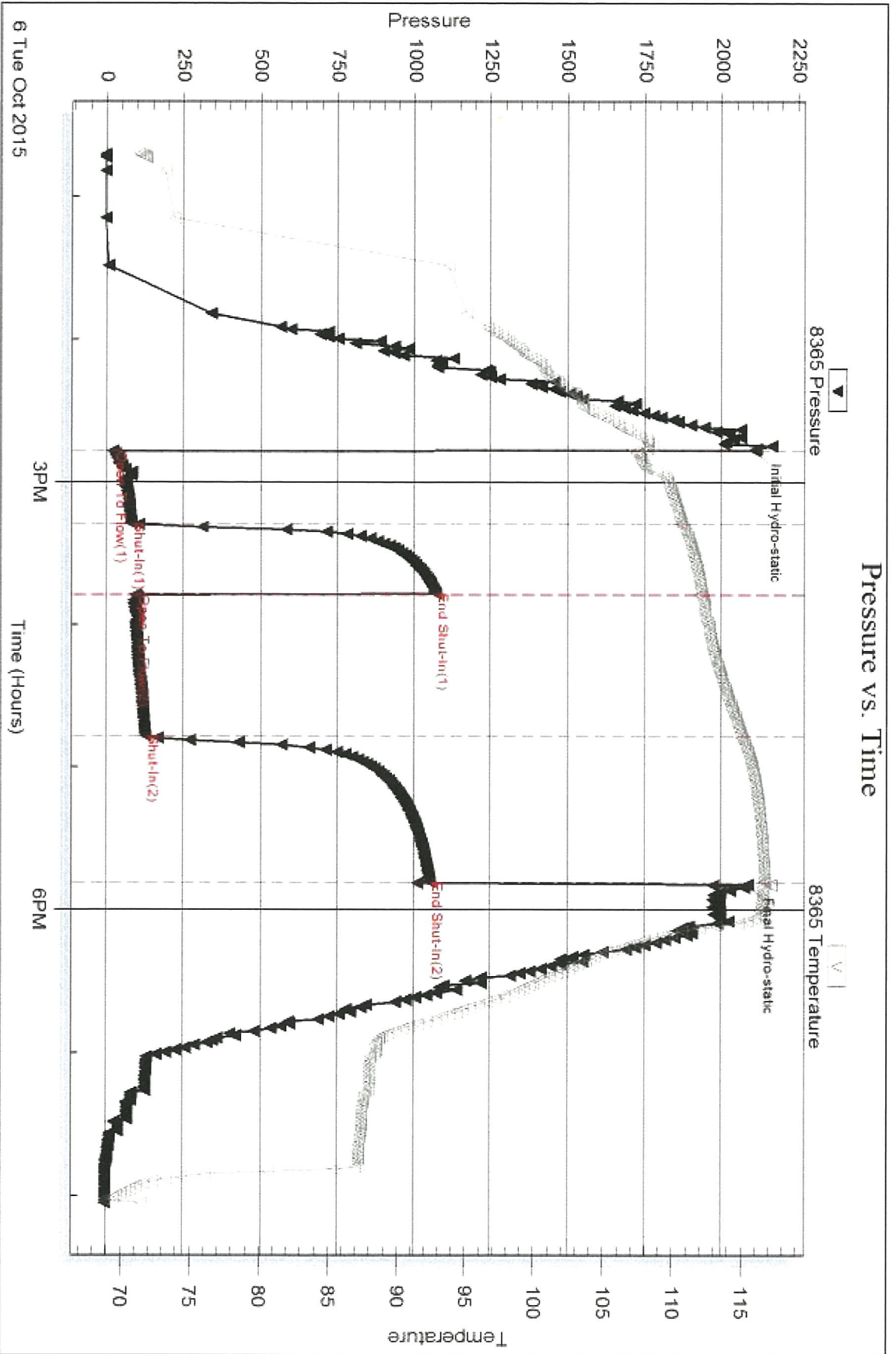
Inside

Palomino Petroleum, Inc

Duff #1

DST Test Number: 6

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 618335

Printed 2015 10 09 @ 11:30:07

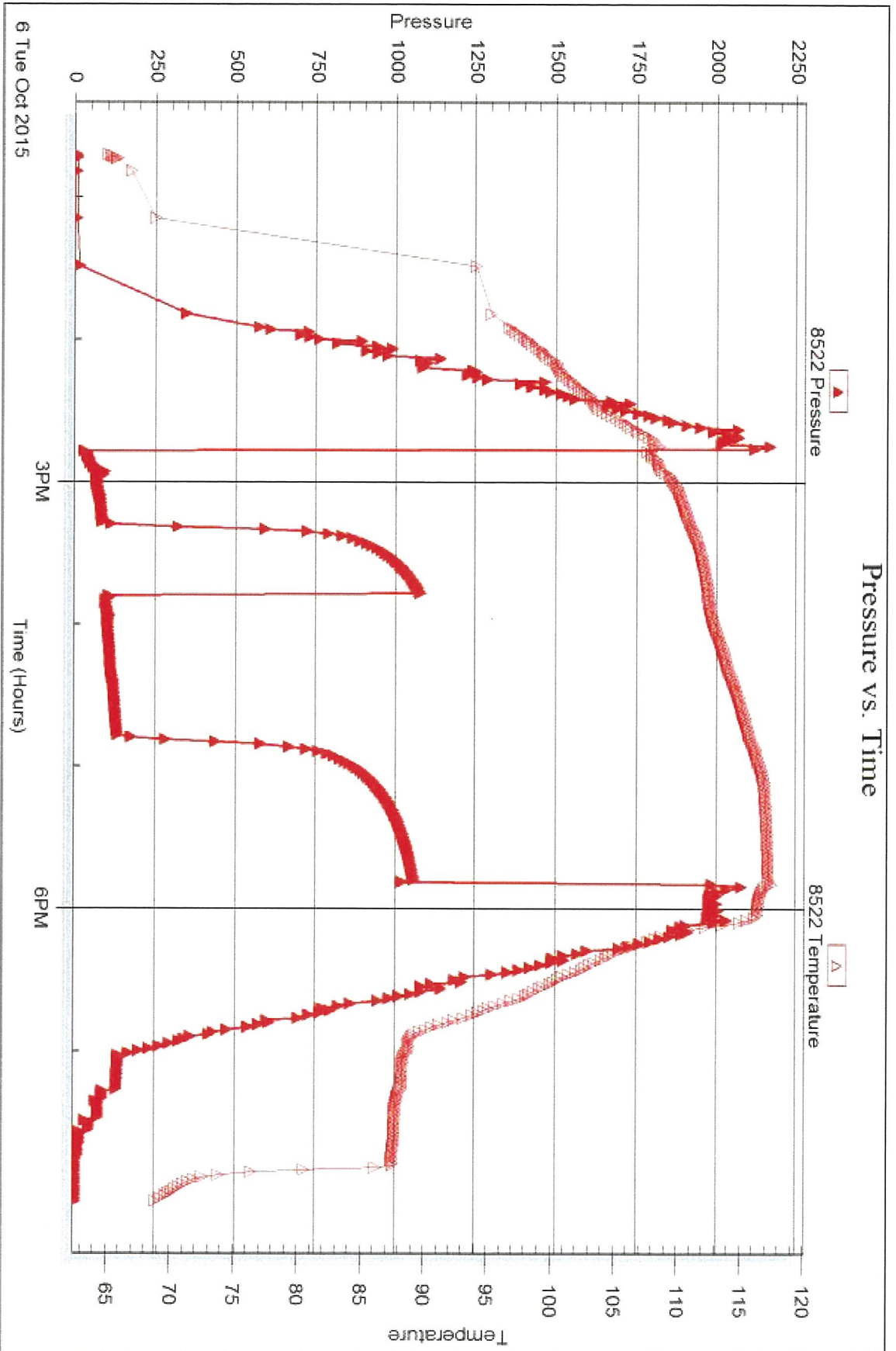
Serial #: 8522

Outside

Palomino Petroleum, Inc

Duff #1

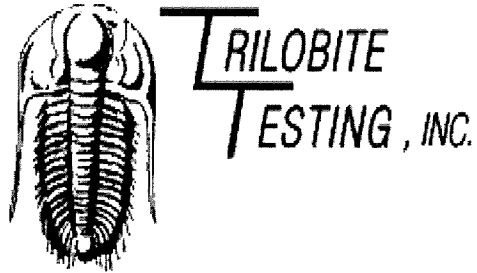
DST Test Number: 6



Tribolite Testing, Inc

Ref. No: 61835

Printed 2015 10 09 @ 11:30:07



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton, KS 67114

ATTN: John Goldsmith

Duff #1

9-15s-32w Logan,KS

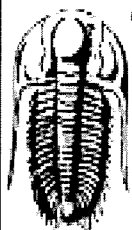
Start Date: 2015.10.07 @ 03:08:00

End Date: 2015.10.07 @ 10:14:30

Job Ticket #: 61836 DST #: 7

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

Printed: 2015.10.09 @ 11:29:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61836

DST#: 7

ATTN: John Goldsmith

Test Start: 2015.10.07 @ 03:08:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:10:00

Time Test Ended: 10:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4288.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Reference Elevations: 2708.00 ft (KB)

Total Depth: 3752.00 ft (KB) (TVD)

2703.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 414.16 psig @ 4289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.07

End Date: 2015.10.07

Last Calib.: 2015.10.07

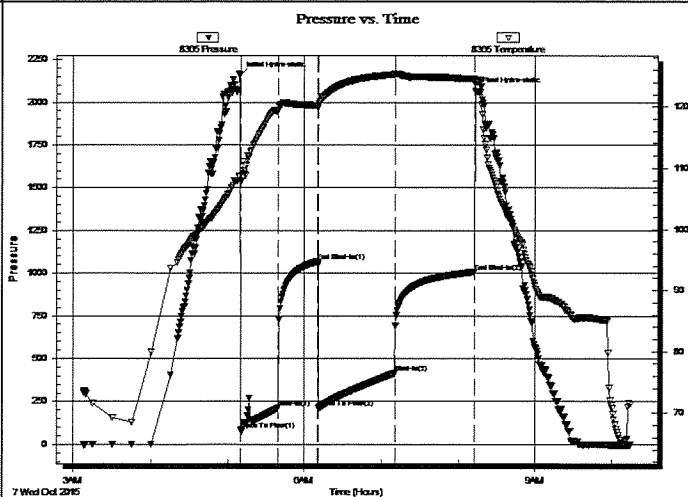
Start Time: 03:08:05

End Time: 10:14:29

Time On Btm: 2015.10.07 @ 05:09:00

Time Off Btm: 2015.10.07 @ 08:13:00

TEST COMMENT: IF: BOB @ 8 min.
IS: No return.
FF: BOB @ 10 min.
FS: 2" return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.28	108.78	Initial Hydro-static
1	82.26	107.82	Open To Flow (1)
31	211.20	119.36	Shut-In(1)
62	1067.76	120.22	End Shut-In(1)
62	214.90	119.88	Open To Flow (2)
122	414.16	125.32	Shut-In(2)
183	1006.83	124.54	End Shut-In(2)
184	2064.42	123.73	Final Hydro-static

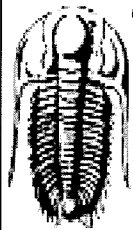
Recovery

Length (ft)	Description	Volume (bbl)
380.00	socw 2o 98w	4.26
570.00	gw mco 15g 25w 30m 30o	8.00
0.00	180' 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: John Goldsmith

9-15s-32w Logan,KS

Duff #1

Job Ticket: 61836

DST#: 7

Test Start: 2015.10.07 @ 03:08:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:10:00

Time Test Ended: 10:14:30

Interval: 4288.00 ft (KB) To 4340.00 ft (KB) (TVD)

Total Depth: 3752.00 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: 2708.00 ft (KB)

2703.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8522 Outside

Press@RunDepth: psig @ 4289.00 ft (KB)

Start Date: 2015.10.07

End Date: 2015.10.07

Capacity: 8000.00 psig

Start Time: 03:08:05

End Time: 10:14:29

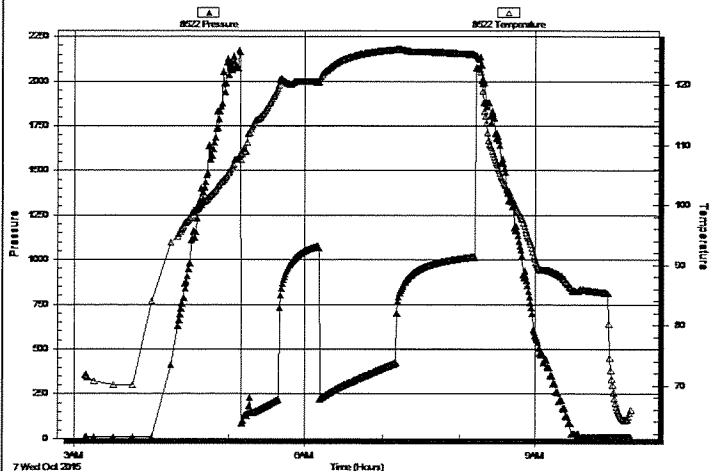
Last Calib.: 2015.10.07

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 8 min.
IS: No return.
FF: BOB @ 10 min.
FS: 2" return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
380.00	socw 2o 98w	4.26
570.00	gw mco 15g 25w 30m 30o	8.00
0.00	180' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
Newton, KS 67114

Duff #1

Job Ticket: 61836

DST#: 7

ATTN: John Goldsmith

Test Start: 2015.10.07 @ 03:08:00

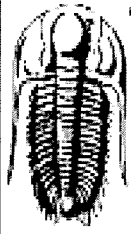
Tool Information

Drill Pipe:	Length: 4174.00 ft	Diameter: 3.80 inches	Volume: 58.55 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4288.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	79.00 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			4262.00	
Shut In Tool	5.00			4267.00	
Hydraulic tool	5.00			4272.00	
Jars	5.00			4277.00	
Safety Joint	2.00			4279.00	
Packer	5.00			4284.00	27.00 Bottom Of Top Packer
Packer	4.00			4288.00	
Stubb	1.00			4289.00	
Recorder	0.00	8365	Inside	4289.00	
Recorder	0.00	8522	Outside	4289.00	
Perforations	15.00			4304.00	
Change Over Sub	1.00			4305.00	
Drill Pipe	31.00			4336.00	
Change Over Sub	1.00			4337.00	
Bullnose	3.00			4340.00	52.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

9-15s-32w Logan,KS
Duff #1
Job Ticket: 61836 **DST#: 7**
Test Start: 2015.10.07 @ 03:08:00

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:	36000 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	socw 2o 98w	4.265
570.00	gw mco 15g 25w 30m 30o	7.996
0.00	180' GIP	0.000

Total Length: 950.00 ft Total Volume: 12.261 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw is .215 @ 65F = 36,000ppm

Serial #: 8365

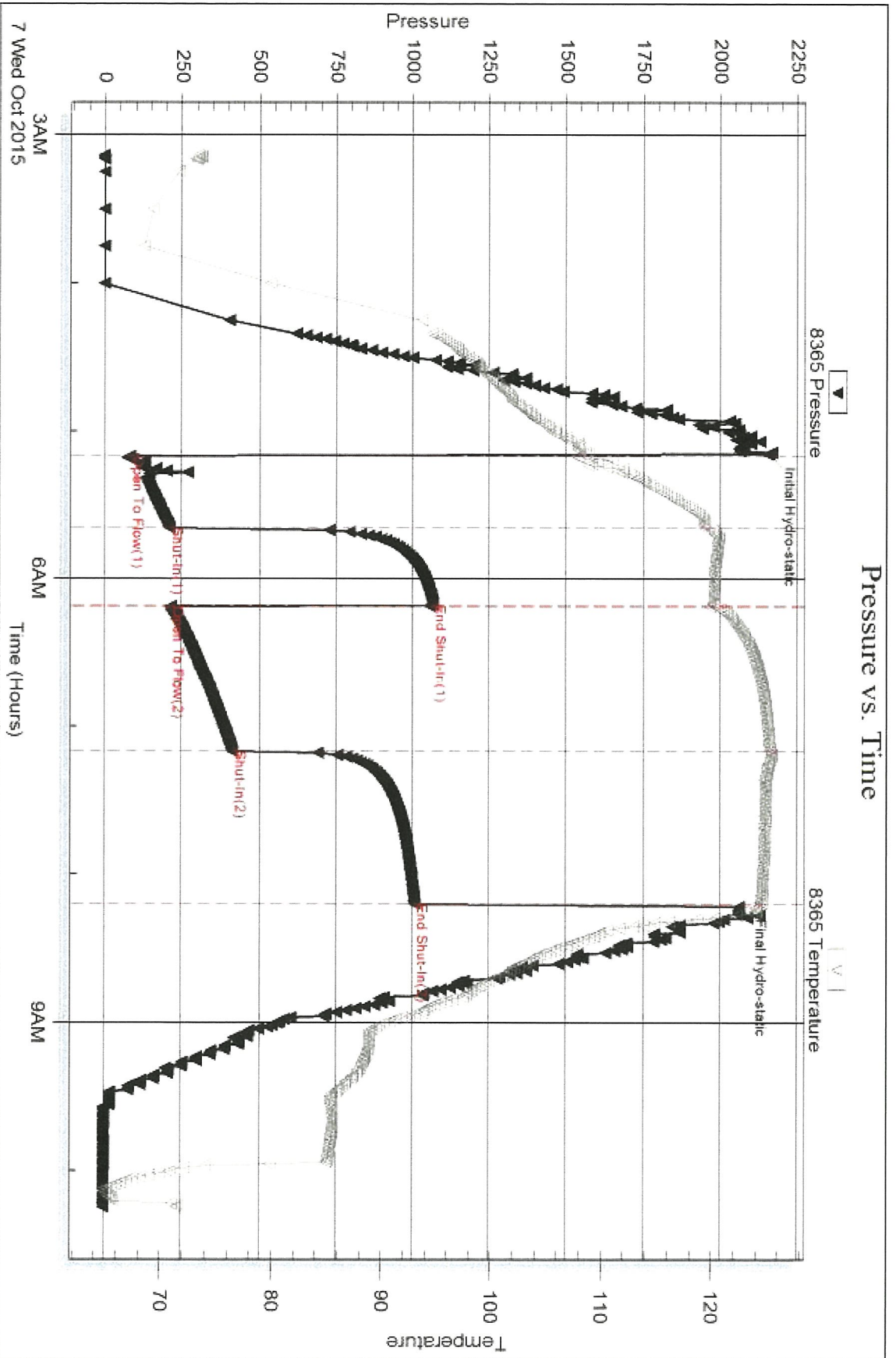
Inside

Palomino Petroleum, Inc

Duff #1

OST Test Number: 7

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 61836

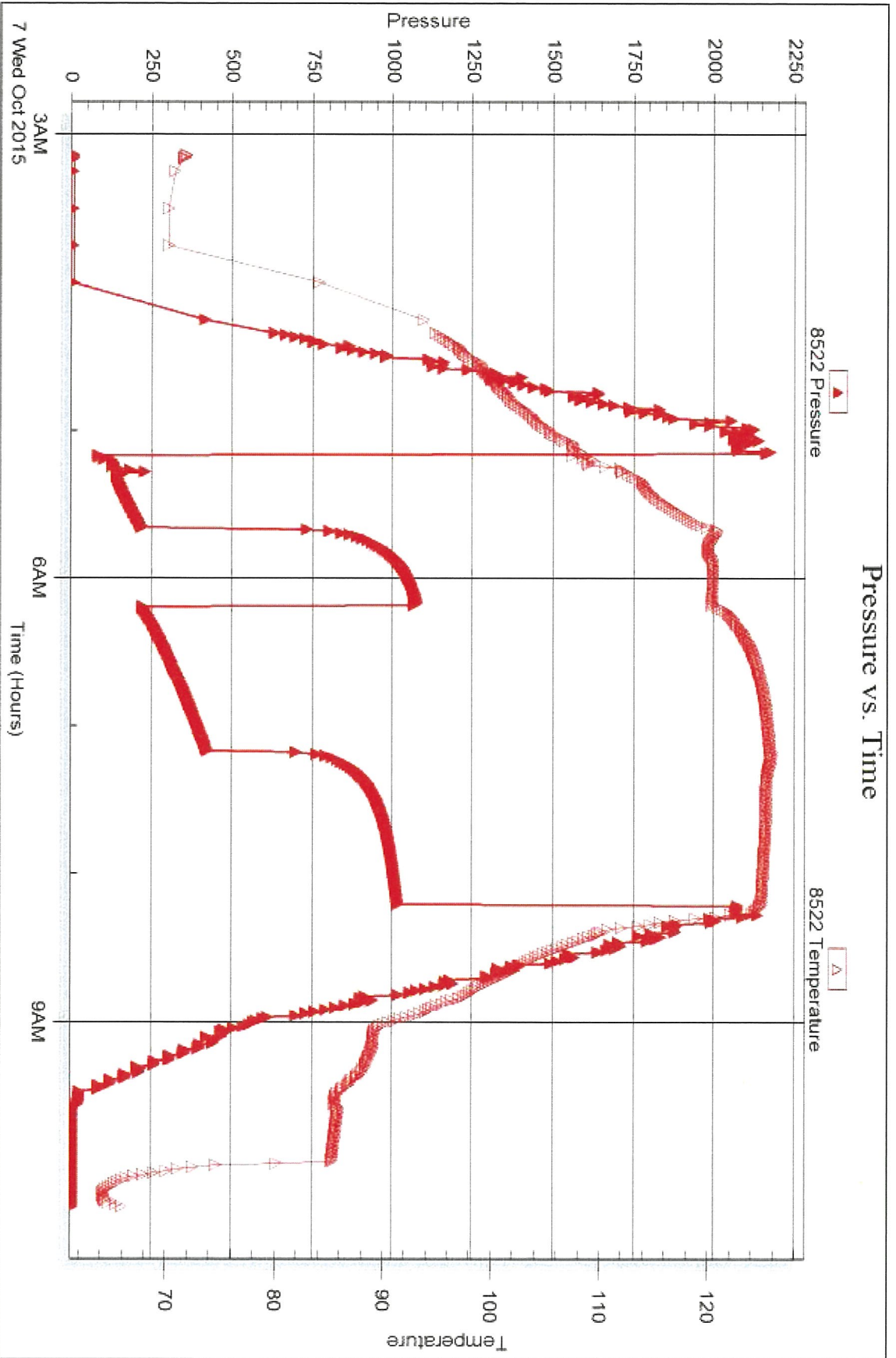
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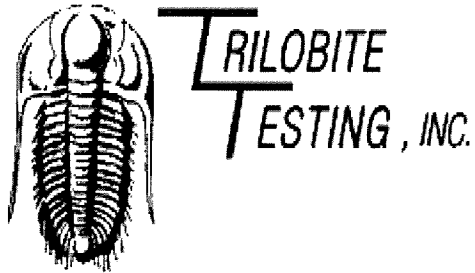
Serial #: 8522

Outside Palomino Petroleum, Inc

Duff #1

OST Test Number: 7





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum, Inc**

4924 SE 84th St.
Newton, KS 67114

ATTN: John Goldsmith

Duff #1

9-15s-32w Logan,KS

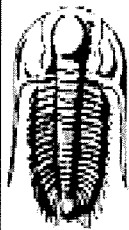
Start Date: 2015.10.08 @ 09:51:00

End Date: 2015.10.08 @ 15:38:00

Job Ticket #: 61837 DST #: 8

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

Printed: 2015.10.09 @ 11:29:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum, Inc

9-15s-32w Logan,KS

4924 SE 84th St.
New ton, KS 67114

Duff #1

Job Ticket: 61837

DST#: 8

ATTN: John Goldsmith

Test Start: 2015.10.08 @ 09:51:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:58:00

Time Test Ended: 15:38:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4056.00 ft (KB) To 4152.00 ft (KB) (TVD)**

Reference Elevations: 2708.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

2703.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365 Outside

Press@RunDepth: 120.00 psig @ 4057.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.08

End Date: 2015.10.08

Last Calib.: 2015.10.08

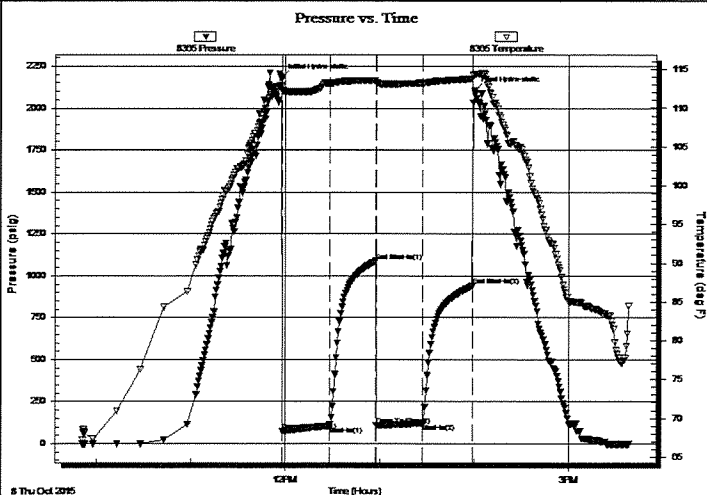
Start Time: 09:51:05

End Time: 15:37:59

Time On Btm: 2015.10.08 @ 11:57:00

Time Off Btm: 2015.10.08 @ 14:00:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.74	112.87	Initial Hydro-static
1	73.61	112.17	Open To Flow (1)
31	106.37	113.16	Shut-In(1)
60	1087.85	113.58	End Shut-In(1)
60	108.25	113.20	Open To Flow (2)
90	120.00	113.24	Shut-In(2)
122	939.48	113.80	End Shut-In(2)
123	2106.23	114.39	Final Hydro-static

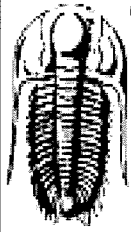
Recovery

Length (ft)	Description	Volume (bbl)
125.00	Mud 100m (oil spots on top)	0.69

* 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: John Goldsmith

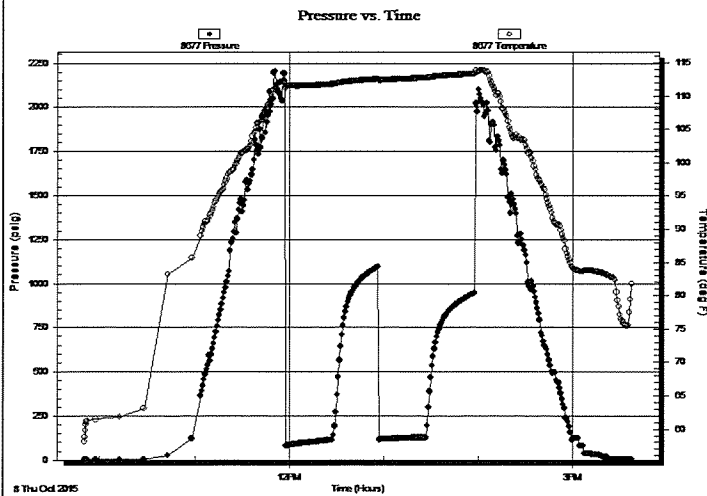
9-15s-32w Logan, KS
Duff #1
 Job Ticket: 61837 **DST#: 8**
 Test Start: 2015.10.08 @ 09:51:00

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:58:00
 Time Test Ended: 15:38:00
 Interval: **4056.00 ft (KB) To 4152.00 ft (KB) (TVD)**
 Total Depth: 4510.00 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: 2708.00 ft (KB)
 2703.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8677 Inside
 Press@RunDepth: psig @ 4057.00 ft (KB)
 Start Date: 2015.10.08 End Date: 2015.10.08 Capacity: 8000.00 psig
 Start Time: 09:51:05 End Time: 15:37:14 Last Calib.: 2015.10.08
 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

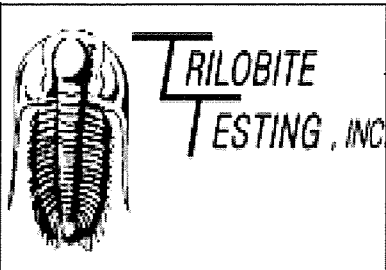
Recovery

Length (ft)	Description	Volume (bbl)
125.00	Mud 100m (oil spots on top)	0.69

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum, Inc
 4924 SE 84th St.
 Newton, KS 67114
 ATTN: John Goldsmith

9-15s-32w Logan,KS
Duff #1
 Job Ticket: 61837 **DST#: 8**
 Test Start: 2015.10.08 @ 09:51:00

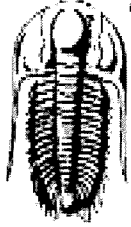
Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 55.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4056.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	454.00 ft			
Tool Length:	481.00 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			4030.00	
Shut In Tool	5.00			4035.00	
Hydraulic tool	5.00			4040.00	
Jars	5.00			4045.00	
Safety Joint	2.00			4047.00	
Packer	5.00			4052.00	27.00 Bottom Of Top Packer
Packer	4.00			4056.00	
Stubb	1.00			4057.00	
Recorder	0.00	8677	Inside	4057.00	
Recorder	0.00	8365	Outside	4057.00	
Perforations	1.00			4058.00	
Change Over Sub	1.00			4059.00	
Drill Pipe	93.00			4152.00	
Change Over Sub	1.00			4153.00	
Perforations	5.00			4158.00	
Blank Off Sub	1.00			4159.00	454.00 Tool Interval
Packer	3.00			4162.00	
Blank Spacing	1.00			4163.00	
Perforations	3.00			4166.00	
Change Over Sub	1.00			4167.00	
Recorder	0.00	8522	Below	4167.00	
Drill Pipe	343.00			4510.00	1000480.00 Bottom Packers & Anchor

Total Tool Length: 481.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

9-15s-32w Logan,KS
Duff #1
Job Ticket: 61837 **DST#: 8**
Test Start: 2015.10.08 @ 09:51:00

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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	Mud 100m (oil spots on top)	0.688

Total Length: 125.00 ft Total Volume: 0.688 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8365

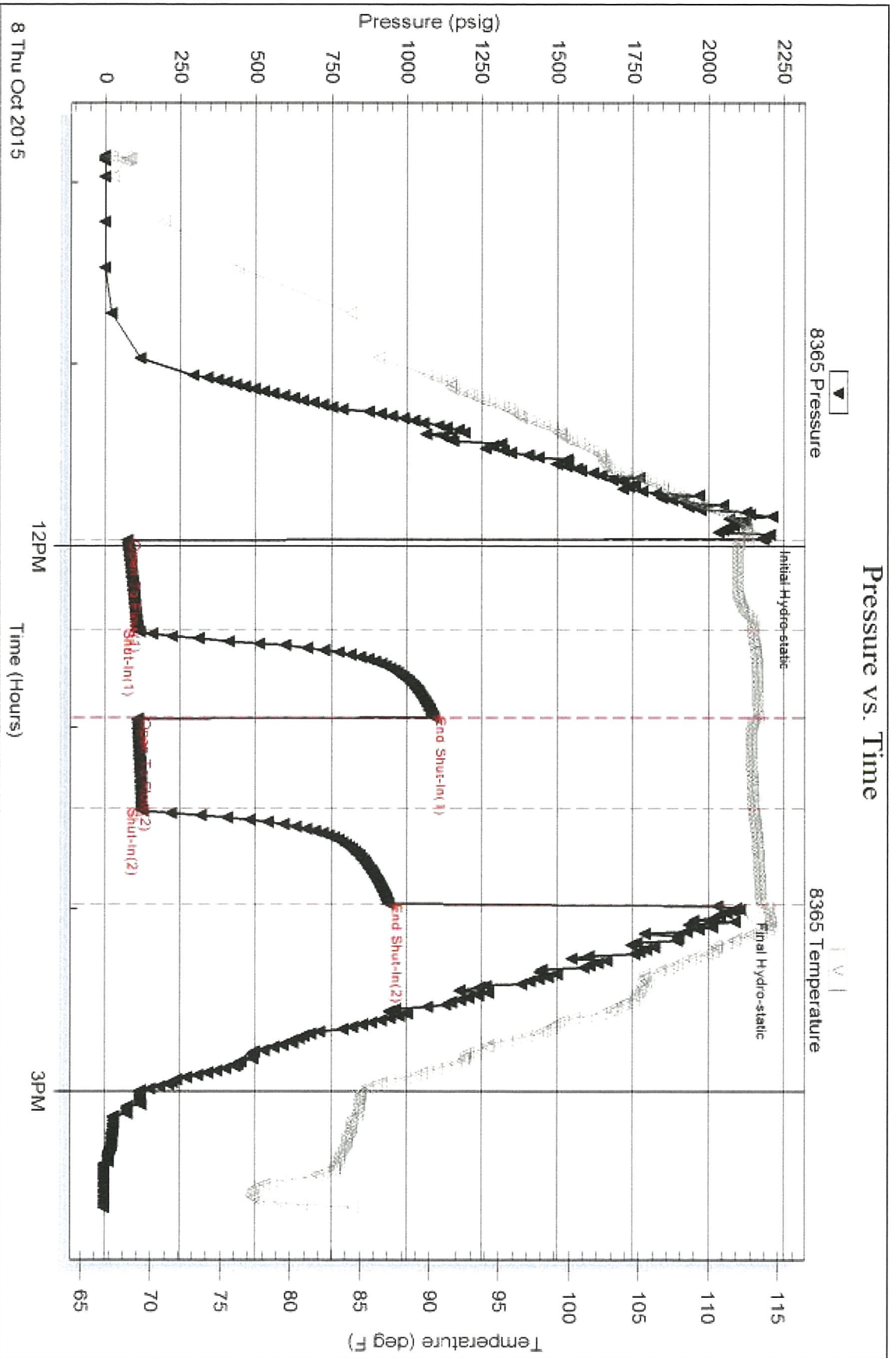
Outside

Palomino Petroleum, Inc

Duff #1

OST Test Number: 8

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 61837

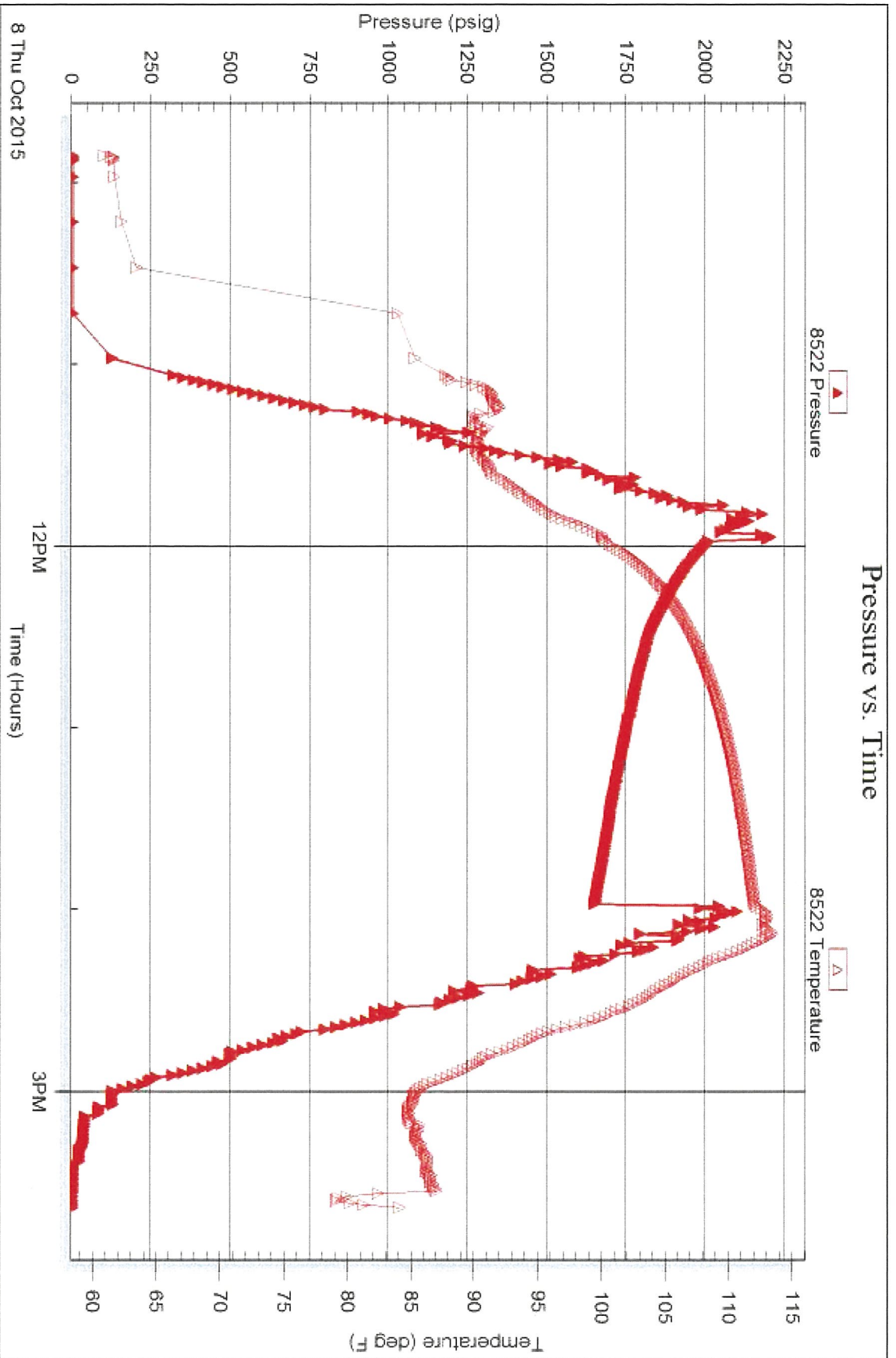
Printed 2015 10 09 @ 11:29:08

Serial #: 8522

Below (Stratton) Petroleum, Inc

Duff #1

DST Test Number: 8



Tricobite Testing, Inc

Ref. No: 61837

Printed 2015 10 09 @ 11:29:08

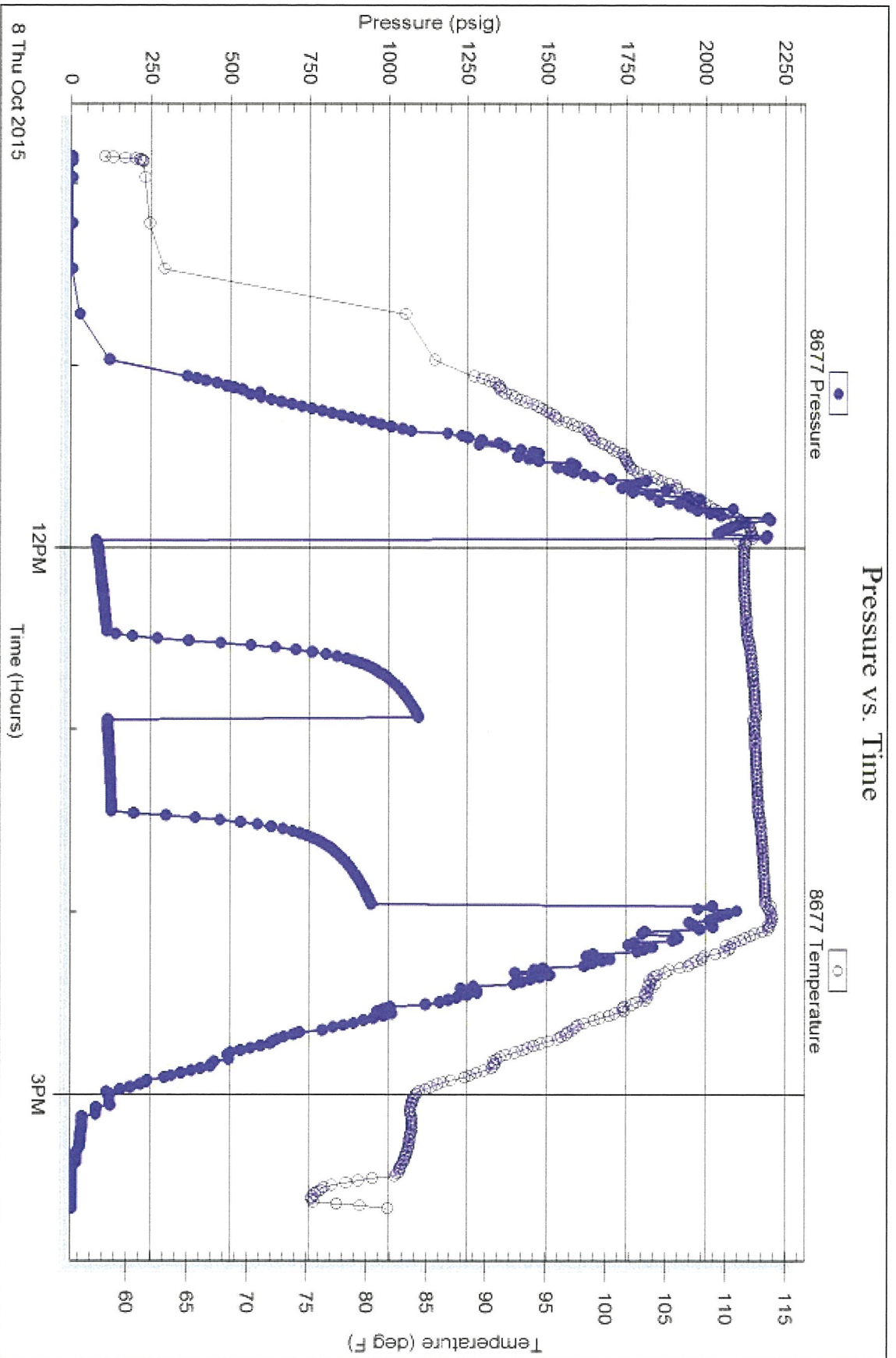
Serial #: 8677

Inside

Palomino Petroleum, Inc

Duff #1

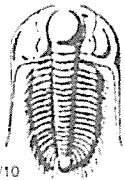
OST Test Number: 8



Triobite Testing, Inc

Ref. No: 61837

Printed 2015 10 09 @ 11:29:08



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61830

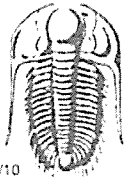
Well Name & No. D.H. #1 Test No. 1 Date 10/02/2015
 Company Palomino Petroleum, Inc Elevation 2708 KB 2703 GL
 Address 4924 SE 84th St. Newton, KS 67114
 Co. Rep / Geo. John Goldsmith Rig WW #2
 Location: Sec. 9 Twp. 15s Rge. 32w Co. Logan State KS

Interval Tested 3723 - 3752 Zone Tested LKC D
 Anchor Length 29 Drill Pipe Run 3610 Mud Wt. 9.0
 Top Packer Depth 3718 Drill Collars Run 117 Vis 54
 Bottom Packer Depth 3723 Wt. Pipe Run 8 WL 6.4
 Total Depth 3752 Chlorides 2500 ppm System LCM 1#
 Blow Description IF: 7" blow
ISI: No return.
FF: 8" blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>245</u>	<u>MCW</u>		<u>70</u>	<u>30</u>	
<u>60</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
	<u>OTL SPOTS IN TOOL</u>				

Rec Total 305 BHT 114 Gravity — API RW 1190 @ 60 °F Chlorides 48,000 ppm
 (A) Initial Hydrostatic 1874 Test 1050 T-On Location 1748
 (B) First Initial Flow 25 Jars 250 T-Started 1839
 (C) First Final Flow 98 Safety Joint 75 T-Open 2038
 (D) Initial Shut-In 980 Circ Sub N/C T-Pulled 2238
 (E) Second Initial Flow 108 Hourly Standby _____ T-Out 0018
 (F) Second Final Flow 152 Mileage 47 RT 47 Comments _____
 (G) Final Shut-In 964 Sampler _____
 (H) Final Hydrostatic 1809 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1422 Sub Total 1422
 Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 0
 Total 1422
 MP/DST Disc't _____

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61831

Well Name & No. Duff #1 Test No. 2 Date 10/03/2015
 Company Palomino Petroleum, Inc Elevation 2708 KB 2703 GL
 Address 4924 SE 84th St. Newton, KS 67114
 Co. Rep / Geo. John Goldsmith Rig WW #2
 Location: Sec. 9 Twp. 15S Rge. 32W Co. Logan State Ks

Interval Tested 3754 - 3786 Zone Tested LKC E&F
 Anchor Length 32' Drill Pipe Run 3641 Mud Wt. 9.1
 Top Packer Depth 3749 Drill Collars Run 117 Vis 53
 Bottom Packer Depth 3754 Wt. Pipe Run Ø WL 8.0
 Total Depth 3786 Chlorides 3000 ppm System LCM 1#
 Blow Description IF: 1" blow
ISI: No return.
FF: Surface blow
FSI: No return.

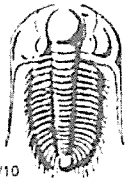
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>w.c.m (OTL SPOTS)</u>		<u>10</u>	<u>90</u>	
	<u>30' GID</u>				

Rec Total 60 BHT 108 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1829</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0708</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0712</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0838</u>
(D) Initial Shut-In <u>1066</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1038</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1206</u>
(F) Second Final Flow <u>41</u>	<input checked="" type="checkbox"/> Mileage <u>47 RT 47</u>	Comments
(G) Final Shut-In <u>1050</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1817</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>1422</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1422</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61832

Well Name & No. PJAF #1 Test No. 3 Date 10/04/2015
 Company Palomino Petroleum, Inc Elevation 2705 KB 2703 GL
 Address 4924 SE 84th St. Newton, KS 67114
 Co. Rep / Geo. John Goldsmith Rig WW #2
 Location: Sec. 9 Twp. 15S Rge. 32W Co. Logan State KS

Interval Tested 3832 - 3923 Zone Tested LKC H/I/S
 Anchor Length 91 Drill Pipe Run 3703 Mud Wt. 9.2
 Top Packer Depth 3827 Drill Collars Run 117 Vis 54
 Bottom Packer Depth 3832 Wt. Pipe Run 0 WL 8.0
 Total Depth 3923 Chlorides 4000 ppm System LCM 2nd
 Blow Description IF: 3 1/2" blow
IST: No return
FF: 3" blow
HST: No return

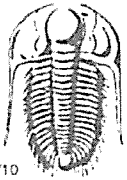
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Wcm</u>		<u>10</u>	<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 180 BHT 108 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1896</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0300</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0315</u>
(C) First Final Flow <u>1877</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0435</u>
(D) Initial Shut-In <u>1107</u>	<input checked="" type="checkbox"/> Circ Sub <u>vt</u>	T-Pulled <u>0635</u>
(E) Second Initial Flow <u>82</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0808</u>
(F) Second Final Flow <u>102</u>	<input checked="" type="checkbox"/> Mileage <u>47 RT 47</u>	Comments
(G) Final Shut-In <u>1086</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1864</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>1422</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1422</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61833

Well Name & No. Duff #1 Test No. 4 Date 10/04/2015
 Company Palomino Petroleum, Inc Elevation 2708 KB 2703 GL
 Address 4924 84th St Newton, KS 67114
 Co. Rep / Geo. John Goldsmith Rig WW #2
 Location: Sec. 9 Twp. 15s Rge. 32w Co. Logan State KS

Interval Tested ~~3832 - 3925~~ Zone Tested LKC "K"
3921 - 3963
 Anchor Length 42 Drill Pipe Run 3800 Mud Wt. 9.0
 Top Packer Depth 3910 Drill Collars Run 117 Vis 50
 Bottom Packer Depth 3921 Wt. Pipe Run 0 WL 8.0
 Total Depth 3963 Chlorides 4,000 ppm System LCM 1st
 Blow Description IF: 4" blow
ISF: No return
PF: 2 1/2" blow
FSI: No return

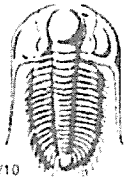
Rec	Feet of	%gas	%oil	%water	%mud
<u>190</u>	<u>Wc m</u>			<u>10</u>	<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 190 BHT 109 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1921</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1400</u>
(B) First Initial Flow <u>15</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1440</u>
(C) First Final Flow <u>77</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1705</u>
(D) Initial Shut-In <u>1134</u>	<input checked="" type="checkbox"/> Circ Sub <u>4/c</u>	T-Pulled <u>1905</u>
(E) Second Initial Flow <u>78</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2051</u>
(F) Second Final Flow <u>101</u>	<input checked="" type="checkbox"/> Mileage <u>47.67</u> <u>47</u>	Comments
(G) Final Shut-In <u>1118</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1566</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>20</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>1422</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1422</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61884

Well Name & No. Duff #1 Test No. 5 Date 10/05/2015
 Company Palomare Petroleum, Inc Elevation 2708 KB 2703 GL
 Address 4924 24th St, Newton, KS 67114
 Co. Rep / Geo. John Goldsmith Rig WW #2
 Location: Sec. 9 Twp. 15s Rge. 32w Co. Logan State KS

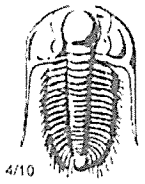
Interval Tested 3962-3998 Zone Tested LKC L
 Anchor Length 36' Drill Pipe Run 3828 Mud Wt. 9.1
 Top Packer Depth 3957 Drill Collars Run 117 Vis 53
 Bottom Packer Depth 3962 Wt. Pipe Run 0 WL 8.8
 Total Depth 3998 Chlorides 5000 ppm System LCM 1.5 #
 Blow Description IF: BOB @ 1 1/2 min.
IC: No return.
FF: BOB @ 2 min.
FC: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1320</u>	<u>mcw</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1320 BHT 116 Gravity — API RW 137 @ 60 °F Chlorides 65000 ppm

(A) Initial Hydrostatic <u>1979</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0400</u>
(B) First Initial Flow <u>116</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0419</u>
(C) First Final Flow <u>390</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0556</u>
(D) Initial Shut-In <u>877</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0756</u>
(E) Second Initial Flow <u>400</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0938</u>
(F) Second Final Flow <u>555</u>	<input checked="" type="checkbox"/> Mileage <u>47.5</u> <u>47</u>	Comments
(G) Final Shut-In <u>635</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1895</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>1422</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1422</u>	

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61835

Well Name & No. Duff #1 Test No. 6 Date 10/06/2015
 Company Palomares Petroleum, Inc Elevation 2708 KB 2703 GL
 Address 4924 84th St Newton, KS 67114
 Co. Rep / Geo. John Goldsmith Rig WW #2
 Location: Sec. 9 Twp. 15S Rge. 32W Co. Scott Logan State KS

Interval Tested 4185 - 4285 Zone Tested Johnson
 Anchor Length 100 Drill Pipe Run 4048 Mud Wt. 9.2
 Top Packer Depth 4190 Drill Collars Run 117 Vis 54
 Bottom Packer Depth 4165 Wt. Pipe Run 0 WL 8.0
 Total Depth 4285 Chlorides 4500 ppm System LCM 1st

Blow Description IF: 4 1/2" blow
TSI: No return.
FF: 3 1/2" blow
FST: No return.

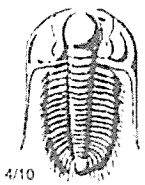
Rec	Feet of	%gas	%oil	%water	%mud
120	6 WOCM	10	25	10	55
120	6 WOCM	10	20	20	50
	60' CTP				

Rec Total 240 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2109</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1930</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1242</u>
(C) First Final Flow <u>80</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1448</u>
(D) Initial Shut-In <u>1069</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1748</u>
(E) Second Initial Flow <u>95</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2004</u>
(F) Second Final Flow <u>126</u>	<input checked="" type="checkbox"/> Mileage <u>47.25</u> <u>47</u>	Comments
(G) Final Shut-In <u>1050</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>7097</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	Total <u>1522</u>
Final Flow <u>60</u>		MP/DST Disc't
Final Shut-In <u>60</u>	Sub Total <u>1522</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61836

Well Name & No. Duff #1 Test No. 7 Date 10/07/2015
 Company Palomino Petroleum, Inc Elevation 2708 KB 2703 GL
 Address 4924 84th St Newton, ks 67114
 Co. Rep / Geo. John Goldsmith Rig WW#2
 Location: Sec. 9 Twp. 15s Rge. 32w Co. Scott Logan State Ks

Interval Tested 4288 4340 Zone Tested Morrow
 Anchor Length 52 Drill Pipe Run 4177 Mud Wt. 9.1
 Top Packer Depth 4283 Drill Collars Run 117 Vis 51
 Bottom Packer Depth 4288 Wt. Pipe Run 0 WL 8.0
 Total Depth 4340 Chlorides 3300 ppm System LCM 2#

Blow Description IF: BOB @ 8 min
ISI: No return
FF: BOB @ 10 min
FSI: 2" return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>570</u>	<u>CW MCD</u>	<u>15</u>	<u>30</u>	<u>30</u>	<u>25</u>
<u>380</u>	<u>SOCW</u>		<u>2</u>	<u>98</u>	
	<u>180' GIP</u>				

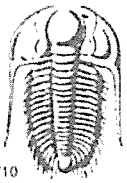
Rec Total 950' BHT 125 Gravity — API RW 216 @ 65 °F Chlorides 36,000 ppm

(A) Initial Hydrostatic 2157 Test 1150 T-On Location 0300
 (B) First Initial Flow 82 Jars 250 T-Started 0308
 (C) First Final Flow 211 Safety Joint 75 T-Open 0508
 (D) Initial Shut-In 1068 Circ Sub N/C T-Pulled 0808
 (E) Second Initial Flow 215 Hourly Standby _____ T-Out 1015
 (F) Second Final Flow 414 Mileage 47R- 47 Comments _____
 (G) Final Shut-In 1007 Sampler _____ Thanks
 (H) Final Hydrostatic 2064 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Extra Packer _____ Ruined Packer 320
 Initial Shut-In 30 Extra Recorder _____ Extra Copies _____
 Final Flow 60 Day Standby _____ Sub Total 320
 Final Shut-In 60 Accessibility _____ Total 1842
 Sub Total 1522 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. 61837

Well Name & No. POA # Test No. 8 Date 10/08/2015
 Company Palomino Petroleum, Inc Elevation 2708 KB 2703 GL
 Address 4924 84th St Newton, KS 67114
 Co. Rep / Geo. John Goldsmith Rig WW #2
 Location: Sec. 9 Twp. 15S Rge. 32W Co. Logan State KS

Interval Tested 4056 - 4162 Zone Tested Marmaton
 Anchor Length 106' Anchor 348 Tail Drill Pipe Run 3425 Mud Wt. 9.0
 Top Packer Depth 4051 Drill Collars Run 117 Vis 50
 Bottom Packer Depth 4056 / 4162 straddle Wt. Pipe Run 0 WL 9.0
 Total Depth 4510 Chlorides 3400 ppm System LCM 2 #

Blow Description TF: 1" blow
TSI: No return.
FF: 1" blow
ISI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Mud 100 m</u>				

Rec Total 120 BHT 114 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2184</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0940</u>
(B) First Initial Flow <u>74</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0951</u>
(C) First Final Flow <u>106</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1158</u>
(D) Initial Shut-In <u>104.3</u>	<input checked="" type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>1358</u>
(E) Second Initial Flow <u>108</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>1537</u>
(F) Second Final Flow <u>120</u>	<input checked="" type="checkbox"/> Mileage <u>47 RT 47</u>	Comments <u>Loaded after test</u>
(G) Final Shut-In <u>93.9</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>2106</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>2372</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>2372</u>	

Approved By _____ Our Representative [Signature]

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Thanks