

Confidentiality Requested:

 Yes NoKANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISIONForm ACO-1
January 2018Form must be Typed
Form must be Signed
All blanks must be FilledWELL 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 Gas DH EOR OG GSW 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 EOR Conv. to SWD Plug Back Liner Conv. to GSW Conv. to Producer Commingled Permit #: _____ Dual Completion Permit #: _____ SWD Permit #: _____ EOR Permit #: _____ GSW Permit #: _____Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

API No.: _____

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: _____ (e.g. xx.xxxxx), Long: _____ (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 Drill Stem Tests Received Geologist Report / Mud Logs Received UIC DistributionALT I II III Approved by: _____ Date: _____

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

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

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No (If No, skip questions 2 and 3)
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No (If No, skip question 3)
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)

Date of first Production/Injection or Resumed Production/Injection:		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____				
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 (If vented, Submit ACO-18.)		METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4)				PRODUCTION INTERVAL: Top _____ Bottom _____	
--	--	--	--	--	--	---	--

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)		
TUBING RECORD: Size: Set At: Packer At:							

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	ELZA 2
Doc ID	1462497

Tops

Name	Top	Datum
Anhy.	1826	(+ 543)
Base Anhy.	1859	(+ 510)
Heebner	3651	(-1282)
Lansing	3689	(-1320)
BKC	3975	(-1606)
Pawnee	4111	(-1742)
Ft. Scott	4179	(-1810)
Cherokee Sh.	4205	(-1836)
Miss.	4291	(-1922)
LTD	4403	(-2034)

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	ELZA 2
Doc ID	1462497

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	2.625	23	208	Common	150	2% gel, 3% c.c.



MAR 18 2019

Date: 3/14/2019
Invoice # 1239

P.O. #:

Due Date: 4/13/2019
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:

ELZA 2 SEC 12-15-26

Description of Work:

PLUG JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 675.02	Yes				
Common-Class A	144	\$ 2,244.32	Yes				
POZ Mix-Standard	96	\$ 508.42	Yes				
Premium Gel (Bentonite)	9	\$ 197.47	Yes				
Bulk Truck Matl-Material Service Charge	249	\$ 188.39	Yes				
Pump Truck Mileage-Job to Nearest Camp	36	\$ 122.57	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	36	\$ 95.33	Yes				
Flo Seal	60	\$ 90.79	Yes				
Dry Hole Plug	1	\$ 63.55	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,185.85
Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (104.65)

SubTotal for Taxable Items: \$ 4,081.20

SubTotal for Non-Taxable Items: \$ -

Total: \$ 4,081.20

Tax: \$ 346.90

Amount Due: \$ 4,428.10

Applied Payments:

Balance Due: \$ 4,428.10

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. 1239

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-14-19	12	15	26	Gove	KS		11:00 P.M.

Location Utica, ER 8 1/2' 1/2" In to

Lease	Eliza	Well No.	2	Owner	
Contractor	WW #10			To Quality Oilwell Cementing, Inc.	
Type Job	Rotary Plug			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Hole Size	7 1/8"	T.D.	4398	Charge To	Palomino Petroleum
Csg.		Depth		Street	
Tbg. Size		Depth		City	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	240 60/40 4-1.62 1/4# F10

Meas Line		Displace	EQUIPMENT	
Pumptrk	No.	Cementer	Common	144
		Helper	Poz. Mix	96
Bulktrk	No.	Driver	Gel.	9
		Driver	Calcium	
Bulktrk	No.	Driver	Hulls	
		Driver	Salt	

JOB SERVICES & REMARKS

Remarks:	
Rat Hole	30' K
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	
	15' 1840 50SK
	20' 790 100SK
	30' 260 50SK
	40' 10SK

FLOAT EQUIPMENT	
Guide Shoe	8 1/8" Dry Hole Plug
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Plug
Mileage	36
Tax	
Discount	
Total Charge	

Signature



RECEIVED

MAR 13 2019

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: 3/8/2019
Invoice # 1233

P.O. #:

Due Date: 4/7/2019
Division: Russell

Invoice

Contact:

Palomino Petroleum Inc

Address/Job Location:

4924 SE 84th

Newton Ks 67114

Reference:

ELZA 2 SEC

Description of Work:

SURFACE JOB

Services / Items Included:

	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 675.02	No				
Common-Class A	120	\$ 1,870.26	Yes				
Calcium Chloride	7	\$ 296.58	Yes				
POZ Mix-Standard	30	\$ 158.88	Yes				
Pump Truck Mileage-Job to Nearest Camp	36	\$ 122.57	No				
Bulk Truck Matl-Material Service Charge	160	\$ 121.05	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	36	\$ 95.33	No				
Premium Gel (Bentonite)	3	\$ 65.82	Yes				

Invoice Terms:

Net 30

Discount Available ONLY if Invoice is Paid & Received
within listed terms of invoice: \$ (85.14)

SubTotal for Taxable Items: \$ 2,331.76

SubTotal for Non-Taxable Items: \$ 988.62

Total: \$ 3,320.37

Tax: \$ 198.20

Amount Due: \$ 3,518.57

Applied Payments:

Balance Due: \$ 3,518.57

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

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

No. 1233

Phone 785-483-2025

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-8-19				Gove	KS		6 45pm
Location Utica East Side 8 1/2" bw into							

Lease	Elza	Well No.	2	Owner			
Contractor	WW #10				To Quality Oilwell Cementing, Inc.		
Type Job	Surfage				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Hole Size	12 1/4	T.D.	208	Charge To	Palomino Petroleum		
Csg.	8 5/8	Depth	207	Street			
Tbg. Size		Depth		City			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.	10	Shoe Joint		Cement Amount Ordered 150 8 1/2" 3 1/2" 2 1/2" 402			

Meas Line Displace 12 1/2 BBL

EQUIPMENT

Pumptrk	No. 20	Cementer	Eric	Common	120
		Helper	Tony	Poz. Mix	30
Bulktrk	No. 1	Driver		Gel.	3
Bulktrk	No. 9	Driver	Michael	Calcium	7
		Driver	Doug	Hulls	

JOB SERVICES & REMARKS

Remarks:	8 5/8 on bottom. Est. Circulation.
Rat Hole	
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	
	Mix 150 SK & Displace.

Cement Circulated

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	36
Tax	
Discount	
Total Charge	

X Signature



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114-8827

ATTN: Ryan Seib

Elza #2

12-15S-26W Gove, KS

Start Date: 2019.03.13 @ 12:17:00

End Date: 2019.03.13 @ 18:09:02

Job Ticket #: 65653 DST #: 1

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc

12-15S-26W Gove, KS

4924 SE 84th St
Newton, KS 67114+8827

Elza #2

ATTN: Ryan Seib

Job Ticket: 65653 DST#: 1

Test Start: 2019.03.13 @ 12:17:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 14:14:02

Tester: Ken Swinney

Time Test Ended: 18:09:02

Unit No: 72

Interval: 4198.00 ft (KB) To 4303.00 ft (KB) (TVD)

Reference Elevations: 2369.00 ft (KB)

Total Depth: 4303.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: 62.98 psig @ 4199.00 ft (KB)

Capacity: psig

Start Date: 2019.03.13

Last Calib.: 2019.03.13

Start Time: 12:17:01

Time On Btm: 2019.03.13 @ 14:13:02

End Time: 18:09:02

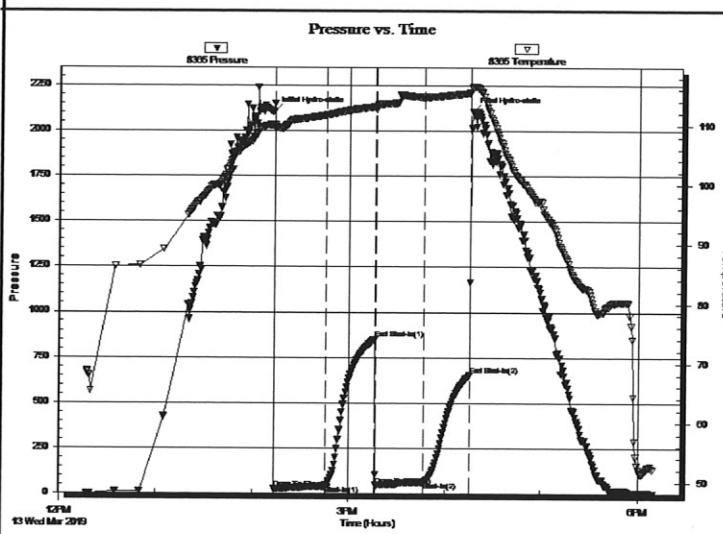
Time Off Btm: 2019.03.13 @ 16:17:02

TEST COMMENT: IF 30 Minutes Blow to 3"

IS 30 Minutes No blow back

FF 30 Minutes Surface blow dead in 2 minutes/ Flush tool/ Surface blow 1 minute

FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.48	110.10	Initial Hydro-static
1	24.20	109.56	Open To Flow (1)
33	40.53	111.77	Shut-In(1)
63	850.30	113.13	End Shut-In(1)
64	46.38	113.18	Open To Flow (2)
94	62.98	114.81	Shut-In(2)
123	653.01	115.50	End Shut-In(2)
124	2103.69	116.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	VSLOCM 5%O 95%M	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc

12-15S-26W Gove, KS

4924 SE 84th St
Newton, KS 67114+8827

Elza #2

ATTN: Ryan Seib

Job Ticket: 65653

DST#: 1

Test Start: 2019.03.13 @ 12:17:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 14:14:02

Tester: Ken Swinney

Time Test Ended: 18:09:02

Unit No: 72

Interval: **4198.00 ft (KB) To 4303.00 ft (KB) (TVD)**

Reference Elevations: 2369.00 ft (KB)

Total Depth: 4303.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6752

Outside

Press@RunDepth: 656.32 psig @ 4200.00 ft (KB)

Capacity: psig

Start Date: 2019.03.13

End Date: 2019.03.13

Last Calib.: 2019.03.13

Start Time: 12:17:01

End Time: 18:08:02

Time On Btm:

2019.03.13 @ 14:13:02

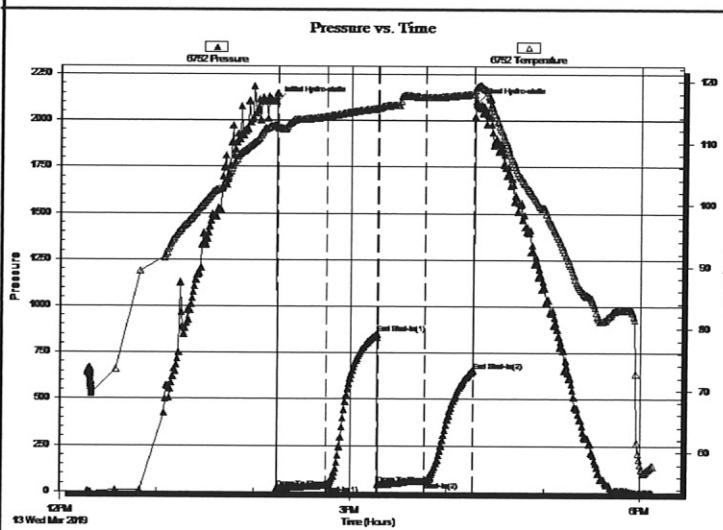
Time Off Btm: 2019.03.13 @ 16:17:32

TEST COMMENT: IF 30 Minutes Blow to 3"

IS 30 Minutes No blow back

FF 30 Minutes Surface blow dead in 2 minutes/ Flush tool/ Surface blow 1 minute

FSI 30 Minutes No blow back



PRESSURE SUMMARY

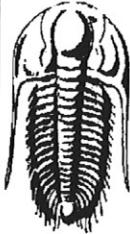
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.60	112.84	Initial Hydro-static
1	19.25	112.44	Open To Flow (1)
32	37.13	114.32	Shut-In(1)
64	852.31	115.63	End Shut-In(1)
64	42.83	115.61	Open To Flow (2)
94	57.84	117.45	Shut-In(2)
123	656.32	118.00	End Shut-In(2)
125	2096.71	119.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	VSLOCM 5%O 95%M	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

12-15S-26W Gove, KS

4924 SE 84th St
Newton, KS 67114+8827

Elza #2

ATTN: Ryan Seib

Job Ticket: 65653

DST#: 1

Test Start: 2019.03.13 @ 12:17:00

Tool Information

Drill Pipe:	Length:	4058.00 ft	Diameter:	3.80 inches	Volume:	56.92 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:	80000.00 lb
Drill Pipe Above KB:		8.00 ft			Total Volume:	57.51 bbl	Tool Chased	0.00 ft
Depth to Top Packer:		4198.00 ft					String Weight: Initial	62000.00 lb
Depth to Bottom Packer:		ft					Final	62000.00 lb
Interval between Packers:		105.35 ft						
Tool Length:		133.35 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			4175.00		
Hydraulic tool	5.00			4180.00		
Jars	6.00			4186.00		
Safety Joint	2.00			4188.00		
Top Packer	5.00			4193.00		
Packer	5.00			4198.00	28.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	4199.00		
Recorder	1.00	6752	Outside	4200.00		
Anchor	35.00			4235.00		
Change Over Sub	1.00			4236.00		
Drill Pipe	63.35			4299.35		
Change Over Sub	1.00			4300.35		
Bullnose	3.00			4303.35	105.35	Anchor Tool
Total Tool Length:	133.35					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

12-15S-26W Gove, KS

4924 SE 84th St
Newton, KS 67114+8827

Elza #2

ATTN: Ryan Seib

Job Ticket: 65653 DST#: 1

Test Start: 2019.03.13 @ 12:17:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	deg API
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl	ppm	ppm
Water Loss:	7.69 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	VSLOCM 5%O 95%M	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

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

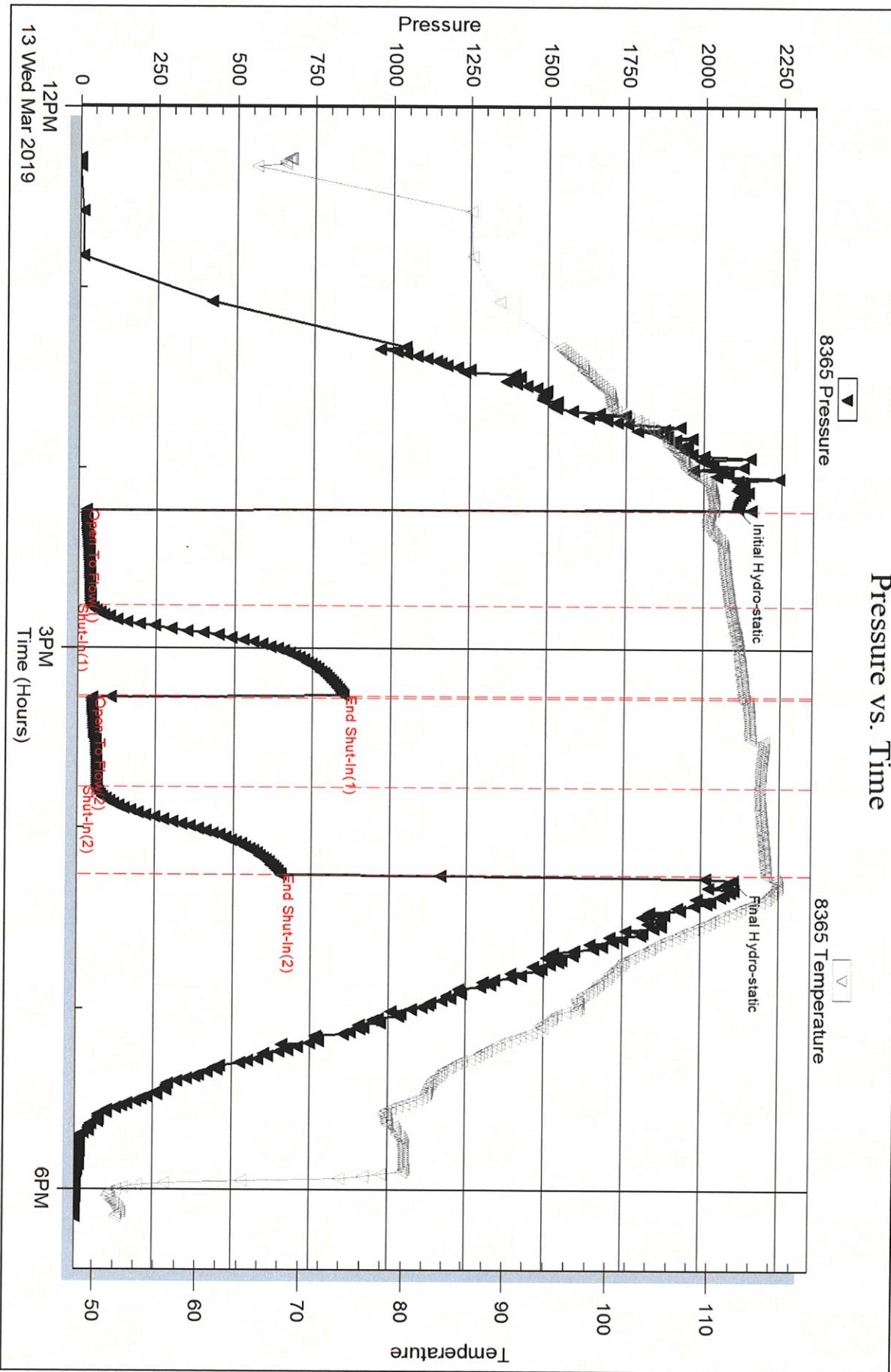
Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8365 Inside Palomino Petroleum Inc

B2a #2

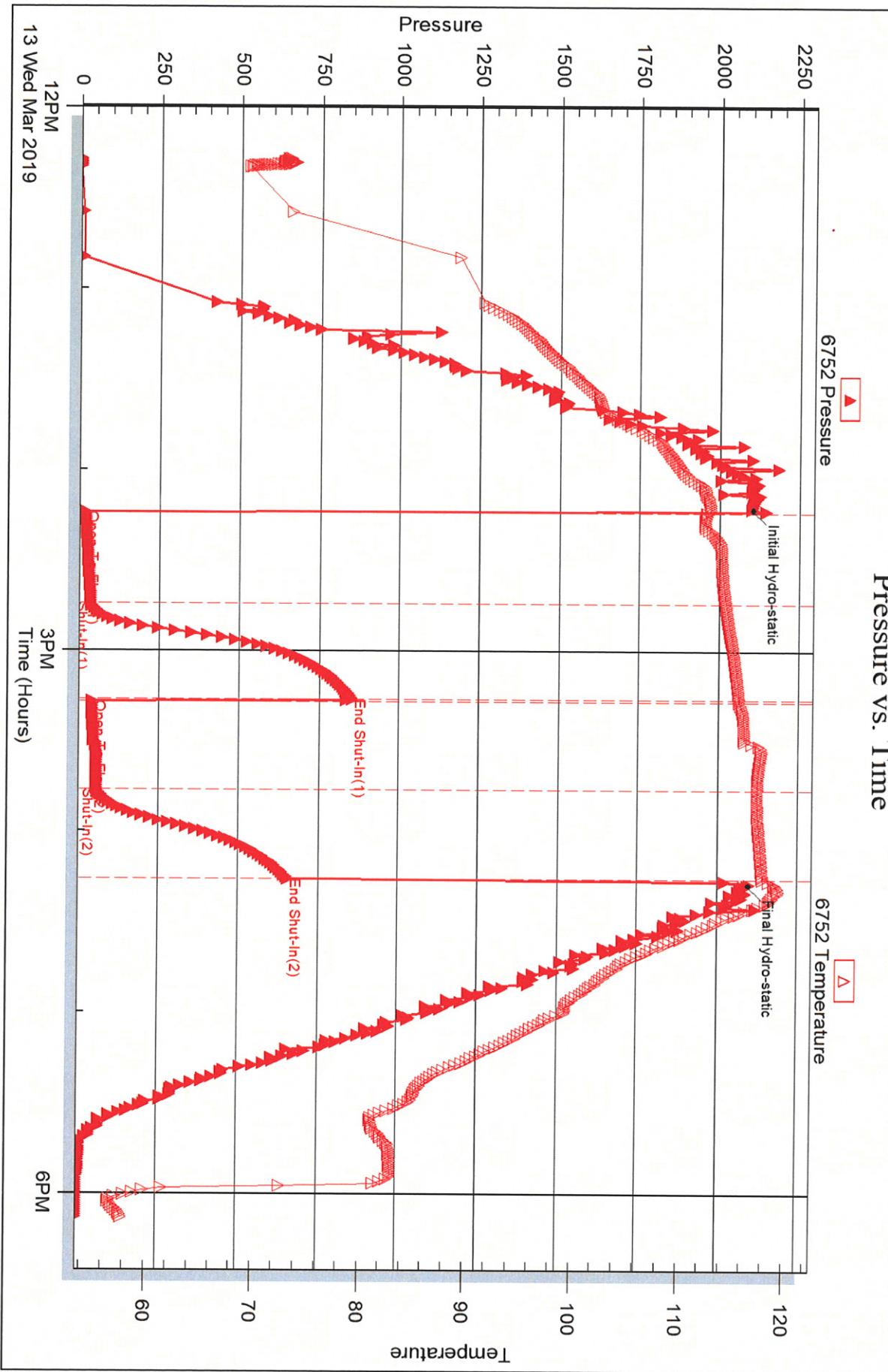
DST Test Number: 1



Serial #: 6752 Outside Palomino Petroleum Inc

Bza #2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St
Newton, KS 67114-8827

ATTN: Ryan Seib

Elza #2

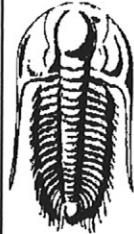
12-15S-26W Gove, KS

Start Date: 2019.03.14 @ 08:25:00

End Date: 2019.03.14 @ 15:39:02

Job Ticket #: 65654 DST #: 2

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc

12-15S-26W Gove, KS

4924 SE 84th St
Newton, KS 67114+8827

Elza #2

ATTN: Ryan Seib

Job Ticket: 65654

DST#: 2

Test Start: 2019.03.14 @ 08:25:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whistock: ft (KB)

Test Type: Conventional Straddle (Initial)

Time Tool Opened: 10:51:32

Tester: Ken Swinney

Time Test Ended: 15:39:02

Unit No: 72

Interval: **4300.00 ft (KB) To 4343.00 ft (KB) (TVD)**

Reference Elevations: 2369.00 ft (KB)

Total Depth: 4403.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8365 **Inside**

Press@RunDepth: 97.00 psig @ 4300.00 ft (KB)

Capacity: psig

Start Date: 2019.03.14

Last Calib.: 2019.03.14

Start Time: 08:25:01

Time On Btm: 2019.03.14 @ 10:50:17

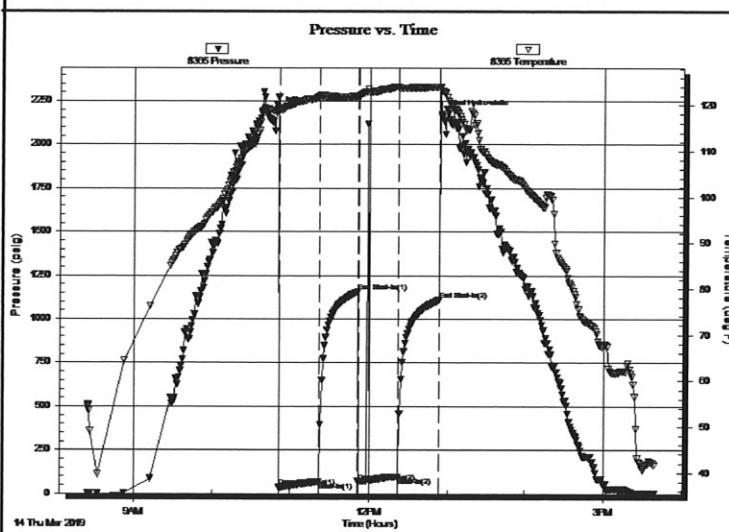
Time Off Btm: 2019.03.14 @ 12:54:32

TEST COMMENT: IF 30 Minutes Blow to 3"

ISI 30 Minutes No blow back

FF 30 Minutes Few bubbles at open - Flush - Blow to 3/4"

FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.53	118.88	Initial Hydro-static
2	36.74	118.89	Open To Flow (1)
32	68.76	122.04	Shut-In(1)
61	1155.88	121.92	End Shut-In(1)
62	70.89	121.66	Open To Flow (2)
92	97.00	123.86	Shut-In(2)
123	1108.61	123.96	End Shut-In(2)
125	2173.92	123.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud w /skim of oil/ M 100%	0.59

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc
4924 SE 84th St
Newton, KS 67114-8827
ATTN: Ryan Seib

12-15S-26W Gove,KS
Elza #2
Job Ticket: 65654 DST#: 2
Test Start: 2019.03.14 @ 08:25:00

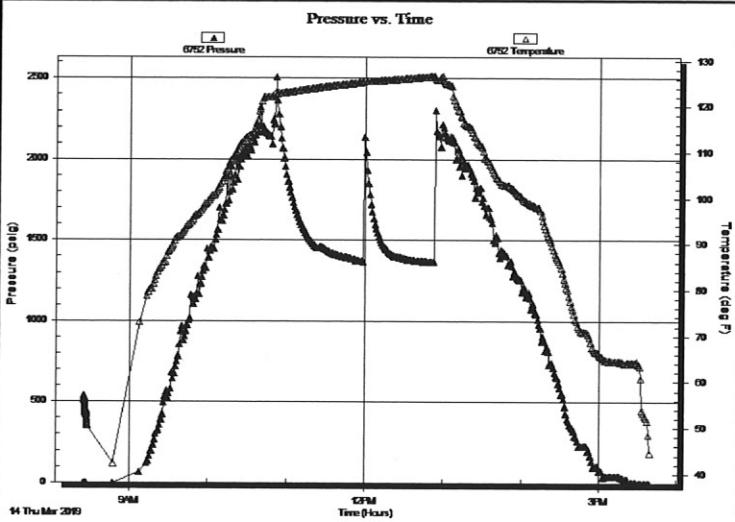
GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Initial)
 Time Tool Opened: 10:51:32 Tester: Ken Swinney
 Time Test Ended: 15:39:02 Unit No: 72
Interval: 4300.00 ft (KB) To 4343.00 ft (KB) (TVD) Reference Elevations: 2369.00 ft (KB)
 Total Depth: 4403.00 ft (KB) (TVD) 2364.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 6752 Below (Straddle)

Press@RunDepth: psig @ 4343.72 ft (KB) Capacity: psig
Start Date: 2019.03.14 End Date: 2019.03.14 Last Calib.: 2019.03.14
Start Time: 08:25:01 End Time: 15:40:02 Time On Btm:
Time Off Btm:

TEST COMMENT: IF 30 Minutes Blow to 3"
ISI 30 Minutes No blow back
FF 30 Minutes Few bubbles at open - Flush - Blow to 3/4"
FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0			
10			
20			
30			
40			
50			
60			
70			
80			
90			
100			
110			
120			
130			
140			
150			
160			
170			
180			
190			
200			
210			
220			
230			
240			
250			
260			
270			
280			
290			
300			
310			
320			
330			
340			
350			
360			
370			
380			
390			
400			
410			
420			
430			
440			
450			
460			
470			
480			
490			
500			
510			
520			
530			
540			
550			
560			
570			
580			
590			
600			
610			
620			
630			
640			
650			
660			
670			
680			
690			
700			
710			
720			
730			
740			
750			
760			
770			
780			
790			
800			
810			
820			
830			
840			
850			
860			
870			
880			
890			
900			
910			
920			
930			
940			
950			
960			
970			
980			
990			
1000			

Recovery

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc

12-15S-26W Gove, KS

4924 SE 84th St
Newton, KS 67114+8827

Elza #2

ATTN: Ryan Seib

Job Ticket: 65654

DST#: 2

Test Start: 2019.03.14 @ 08:25:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Straddle (Initial)

Time Tool Opened: 10:51:32

Tester: Ken Swinney

Time Test Ended: 15:39:02

Unit No: 72

Interval: **4300.00 ft (KB) To 4343.00 ft (KB) (TVD)**

Reference Elevations: 2369.00 ft (KB)

Total Depth: 4403.00 ft (KB) (TVD)

2364.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6755 **Outside**

Press@RunDepth: 1103.68 psig @ 4300.00 ft (KB)

Capacity: psig

Start Date: 2019.03.14

Start Time: 08:25:01

End Date: 2019.03.14

End Time: 15:39:02

Last Calib.: 2019.03.14

Time On Btm: 2019.03.14 @ 10:50:32

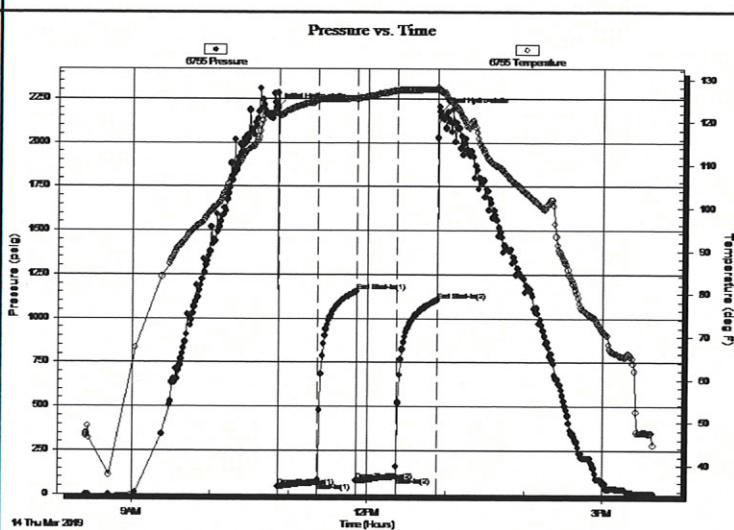
Time Off Btm: 2019.03.14 @ 12:54:47

TEST COMMENT: IF 30 Minutes Blow to 3"

ISI 30 Minutes No blow back

FF 30 Minutes Few bubbles at open - Flush - Blow to 3/4"

FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2194.38	122.13	Initial Hydro-static
2	44.44	121.77	Open To Flow (1)
32	68.99	125.08	Shut-In(1)
61	1151.53	125.45	End Shut-In(1)
62	77.64	125.26	Open To Flow (2)
92	101.26	127.35	Shut-In(2)
123	1103.68	127.63	End Shut-In(2)
125	2174.63	127.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud w/skim of oil/ M 100%	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

12-15S-26W Gove, KS

4924 SE 84th St
Newton, KS 67114-8827

Elza #2

ATTN: Ryan Seib

Job Ticket: 65654

DST#: 2

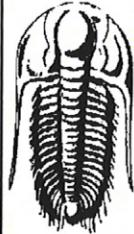
Test Start: 2019.03.14 @ 08:25:00

Tool Information

Drill Pipe:	Length: 4187.00 ft	Diameter: 3.80 inches	Volume: 58.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
Drill Pipe Above KB:	30.70 ft		Total Volume: 59.32 bbl	Tool Chased 0.00 ft
Depth to Top Packer:	4300.00 ft			String Weight: Initial 62000.00 lb
Depth to Bottom Packer:	4400.62 ft			Final 62000.00 lb
Interval between Packers:	100.62 ft			
Tool Length:	124.32 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4281.30	
Hydraulic tool	5.00			4286.30	
Jars	5.00			4291.30	
Safety Joint	2.00			4293.30	
Top Packer	5.00			4298.30	
Packer	1.70			4300.00	23.70
					Bottom Of Top Packer
Recorder	0.00	8365	Inside	4300.00	
Recorder	0.00	6755	Outside	4300.00	
Anchor	5.00			4305.00	
Change Over Sub	0.85			4305.85	
Drill Pipe	31.17			4337.02	
Change Over Sub	1.15			4338.17	
Packer (Interval Side)	2.80			4340.97	
Packer (Tail Side)	1.75			4342.72	
Blank Off Sub	1.00			4343.72	
Recorder	0.00	6752	Below	4343.72	
Perforations	20.00			4363.72	
Change Over Sub	1.05			4364.77	
Drill Pipe	31.75			4396.52	
Change Over Sub	1.10			4397.62	
Bullnose	3.00			4400.62	100.62
					Anchor Tool
Total Tool Length:	124.32				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

12-15S-26W Gove, KS

4924 SE 84th St
New ton, KS 67114+8827

Elza #2

ATTN: Ryan Seib

Job Ticket: 65654

DST#: 2

Test Start: 2019.03.14 @ 08:25:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	deg API
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		ppm
Water Loss:	7.69 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud w/skim of oil/ M 100%	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

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

Laboratory Name: Laboratory Location:

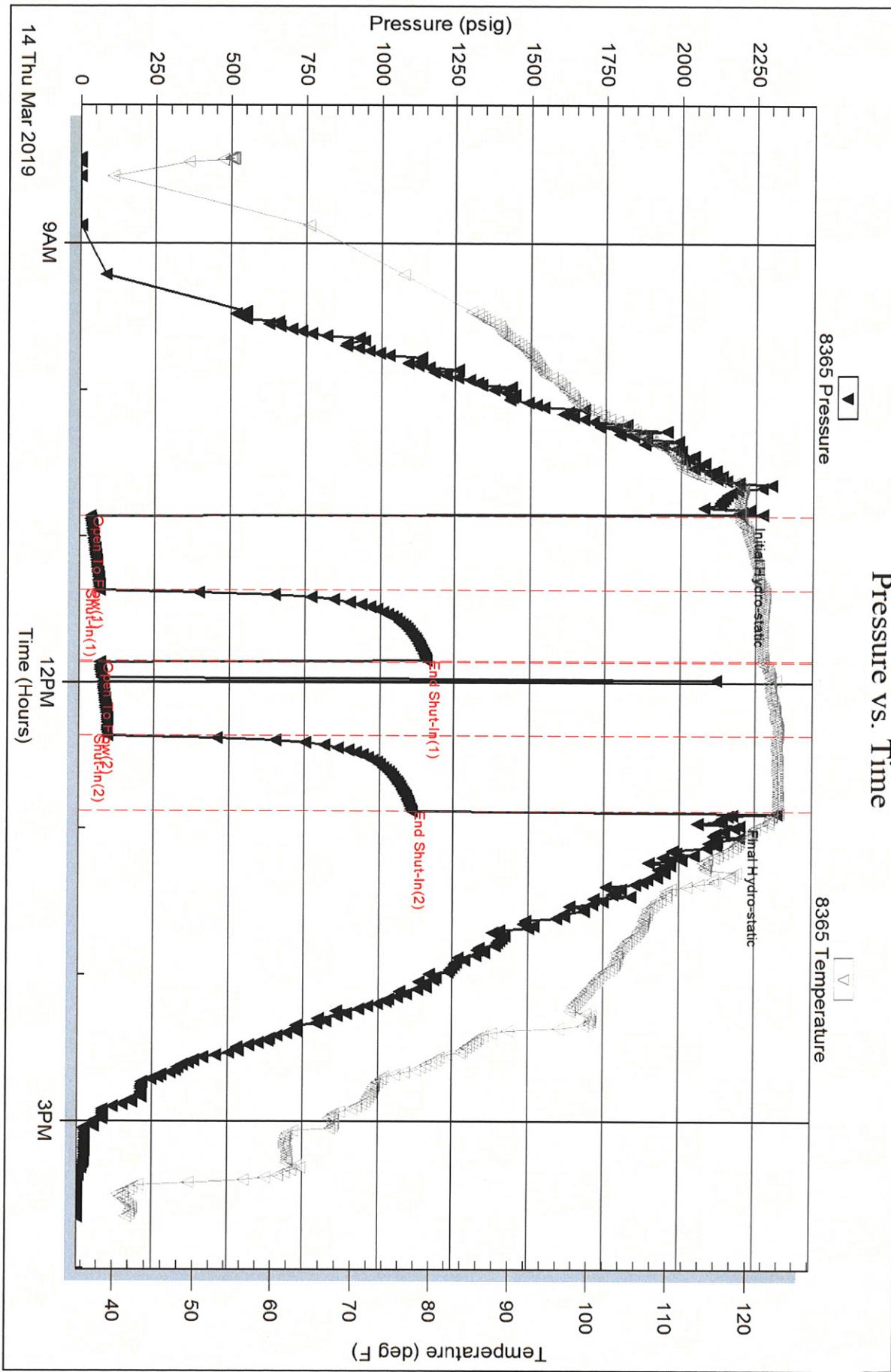
Recovery Comments:

Serial #: 8365

Inside Palomino Petroleum Inc

Bza #2

DST Test Number: 2

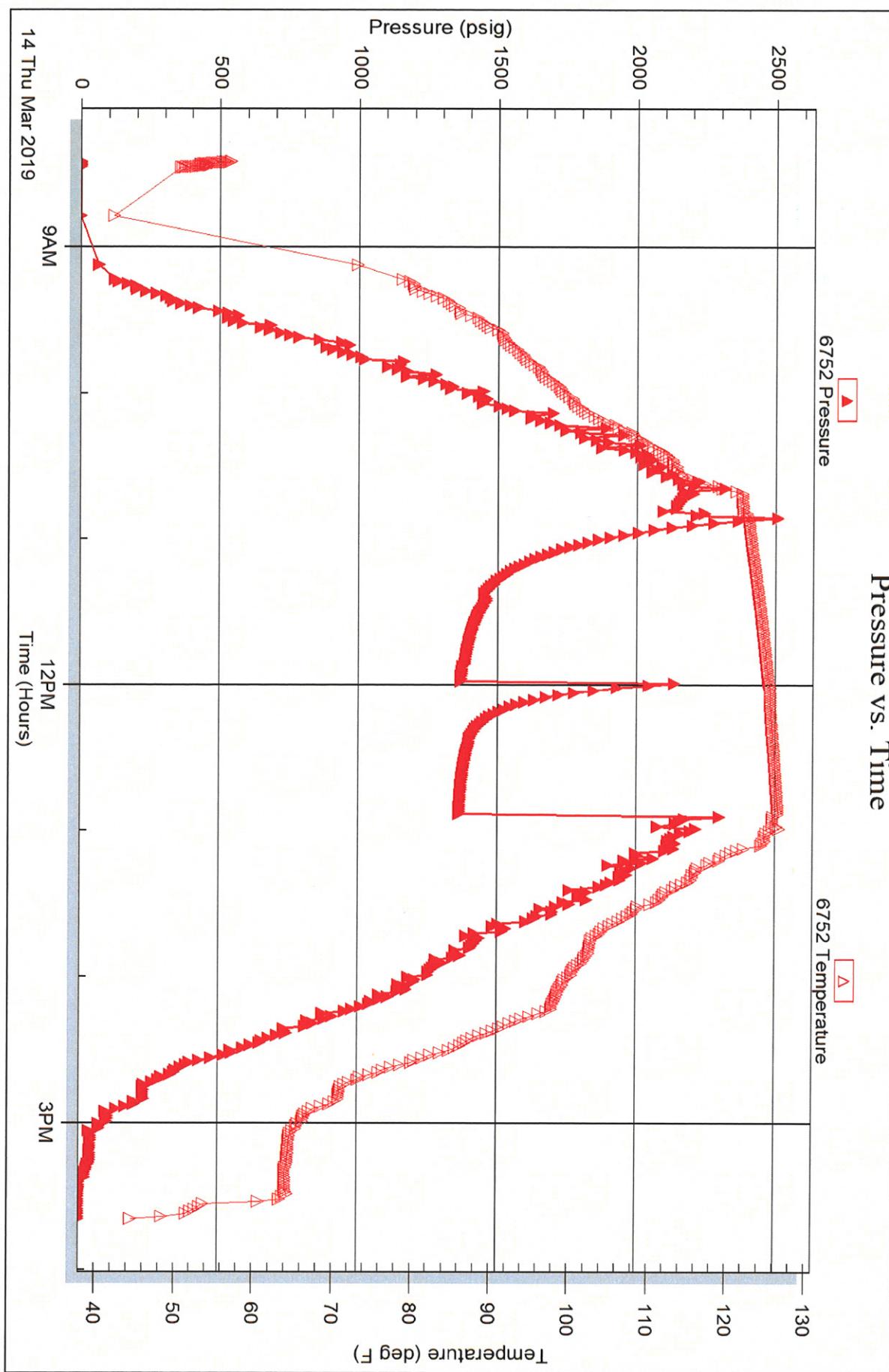


Serial #: 6752

Below (Stratigrapho Petroleum Inc

Bza #2

DST Test Number: 2



Serial #: 6755 Outside Palomino Petroleum Inc

Bza #2

DST Test Number: 2

