

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

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: _____, 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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT 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 <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 Geologist Report / Mud Logs <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				

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 <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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	--	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--



Remit To: Hurricane Services, Inc.
 250 N. Water, Suite 200
 Wichita, KS 67202
 316-303-9515

Customer:
 PALOMINO PETROLEUM INC
 4924 SE 84TH ST
 NEWTON, KS 67114-8827

Invoice Date: 1/7/2022
 Invoice #: 0358151
 Lease Name: Mishler-Maslo Unit
 Well #: 1 (New)
 County: Ness, Ks
 Job Number: WP2291
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	200.000	18.400	3,680.00
Light Eq Mileage	80.000	1.840	147.20
Heavy Eq Mileage	80.000	3.680	294.40
Ton Mileage	752.000	1.380	1,037.76
Depth Charge 0'-500'	1.000	920.000	920.00
Cement Blending & Mixing	200.000	1.288	257.60

Total 6,336.96

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer	Palomino Petroleum	Lease & Well #	MishlerMaslo Unit #1	Date	1/7/2022
Service District	Oakey KS	County & State	Ness KS	Legals S/T/R New Well?	10-17S-25W
Job Type	Surface	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Job #					WP-2291

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
78	Jesse J	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
208	Michael R	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
194-254	Jose V	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP015	H-325	sack	200.00	\$3,680.00
M015	Light Equipment Mileage	mi	80.00	\$147.20
M010	Heavy Equipment Mileage	mi	80.00	\$294.40
M020	Ton Mileage	tm	752.00	\$1,037.76
D010	Depth Charge: 0'-500'	job	1.00	\$920.00
C060	Cement Blending & Mixing Service	sack	200.00	\$257.60

Customer Section: On the following scale how would you rate Hurricane Services Inc.?					Net:	\$6,336.96
Based on this job, how likely is it you would recommend HSI to a colleague?					Total Taxable	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>					Tax Rate:	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely					Sale Tax:	\$ -
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.					Total:	\$ 6,336.96
HSI Representative: <i>Jesse Jones</i>						

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: Palomino Petroleum	Well: MishlerMaslo Unit #1	Ticket: WP-2291
City, State: Oakley KS	County: Ness KS	Date: 1/7/2022
Field Rep: Deon	S-T-R: 10-17S-25W	Service: Surface

Hole Size:	12 1/4 in
Hole Depth:	214 ft
Casing Size:	8 5/8 in
Casing Depth:	213 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	12.3 bbls

Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft³ / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	214 ft
Annular Volume:	15.7 bbls
Excess:	
Total Slurry:	50.2 bbls
Total Sacks:	200 sx

Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE	TOTAL	REMARKS
			BBLs	BBLs	

11:40p			-	-	Arrival
11:45p				-	Safety meeting
11:50p				-	Rig up
3:10a				-	Circulate hole
3:27a	6.0	250.0	5.0	5.0	H2O ahead
3:34a	4.0	260.0	50.2	55.2	Mixed 200 sks @ 14.8 ppg @ 214'
3:45a	4.0	250.0	12.0	67.2	Displaced H2O
4:00a				67.2	Plug down
4:03a				67.2	Wash up
4:10a				67.2	Rig down
4:30a				67.2	Depart location

CREW			UNIT	SUMMARY		
Cementer:	Jesse J		78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael R		208	4.7 bpm	253 psi	67 bbls
Bulk #1:	Jose V		194-254			
Bulk #2:						

MUD LOG
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Mishler Maslo
API: 15-155-26119
Location: 2297 FNL - 219 FWL - Sec. 10 Twp. 17S R25W
License Number: 30742
Spud Date: 01/07/2022
Surface Coordinates:

Region: Kansas
Drilling Completed: 01/15/2022

Bottom Hole Coordinates:
Ground Elevation (ft): 2473 **K.B. Elevation (ft):** 2481
Logged Interval (ft): 3500 **To:** T.D **Total Depth (ft):** 4550
Formation: Mississippi @ Total Depth
Type of Drilling Fluid: Chemical Mud

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Palomino Petroleum, Inc
Address: 4924 SE 84TH ST
Newton KS 67114

GEOLOGIST

Name: Keaton Jones
Company: Rockhound Petroleum, LLC
Address: 255 NE 30th
St. John KS 67576
(620)-546-4010

Well Tops Comparison

Lease:	Mishler Maslo		
KB	2481		Strat
Formation	Top	Datum	Comp
Anhy	1790	691	39
Heebner	3810	-1329	1
Toronto	3831	-1350	-1
Lansing	3850	-1369	0
BKC	4145	-1664	4
Pawnee	4274	-1793	1
Fort Scott	4346	-1865	3
Cherokee	4374	-1893	1
Miss	4448	-1967	11

Well Tops Comparison

Lease:	Maslo #1		
KB	2505		
Formation	Top	Datum	
Anhy	1853	652	
Heebner	3835	-1330	
Toronto	3854	-1349	
Lansing	3874	-1369	
BKC	4173	-1668	
Pawnee	4299	-1794	
Fort Scott	4373	-1868	
Cherokee	4399	-1894	
Miss	4483	-1978	



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th ST
New ton, KS 67114-5827
ATTN: Keaton Jones

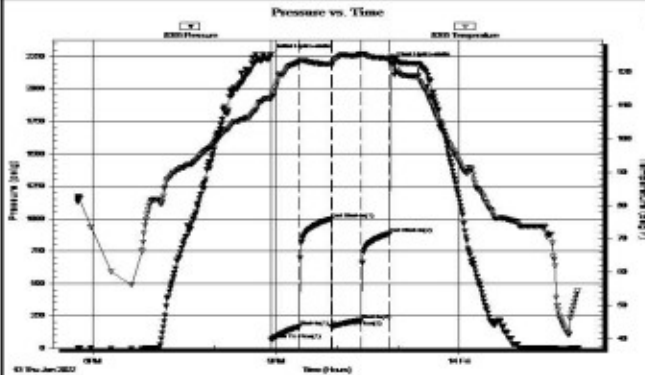
10-17-2S, Ness KS
Mishler Maslo Unit 1
Job Ticket: 68453 DST#: 1
Test Start: 2022.01.14 @ 17:45:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 20:55:02
Time Test Ended: 01:57:02
Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Webster
Unit No: 72
Interval: **4386.00 ft (KB) To 4467.00 ft (KB) (TVD)**
Total Depth: **4467.00 ft (KB) (TVD)**
Reference Elevations: 2477.00 ft (KB)
2467.00 ft (CF)
Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8365 **Inside**
Press@RunDepth: 218.50 psig @ 4387.00 ft (KB) Capacity: psig
Start Date: 2022.01.13 End Date: 2022.01.14 Last Calib.: 2022.01.14
Start Time: 17:45:01 End Time: 01:57:02 Time On Btm: 2022.01.13 @ 20:54:47
Time Off Btm: 2022.01.13 @ 22:53:47

TEST COMMENT: F- Fair blow built to 20" 30 min
IS- No returns 30 min
FF- WSB built to 9" 30 min
FSI- No returns 30 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2264.32	112.45	Initial Hydro-static
1	64.53	111.78	Open To Flow (1)
29	166.59	123.04	Shut-in(1)
60	996.85	122.44	End Shut-in(1)
60	164.46	122.11	Open To Flow (2)
90	218.50	125.41	Shut-in(2)
118	886.61	124.11	End Shut-in(2)
119	2206.31	124.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
149.00	MCO 50% Oil 50% Mud	2.09
186.00	HOCM 15% Oil 85% Mud	2.61

Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th ST
Newton, KS 67114-5827
ATTN: Keaton Jones

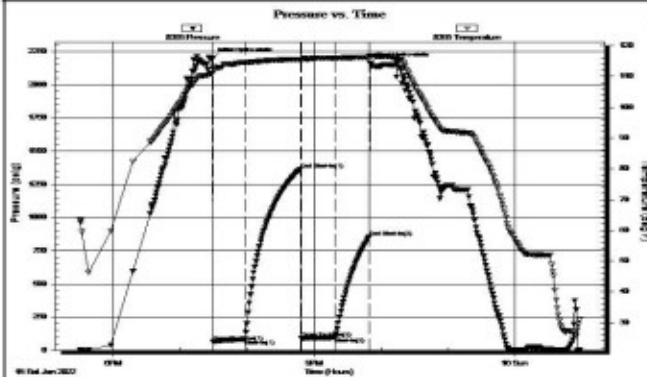
10-17-2S, Ness KS
Mishler Maslo Unit 1
Job Ticket: 68454 **DST#: 2**
Test Start: 2022.01.15 @ 17:30:00

GENERAL INFORMATION:

Formation: **Fort Scott**
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Straddle (Reset)
Time Tool Opened: 19:29:32 Tester: Kevin Webster
Time Test Ended: 00:58:02 Unit No: 72
Interval: 4320.00 ft (KB) To 4386.00 ft (KB) (TVD) Reference Elevations: 2477.00 ft (KB)
Total Depth: 4549.00 ft (KB) (TVD) 2467.00 ft (CF)
Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8365 Outside
Press@RunDepth: 95.82 psig @ 4366.00 ft (KB) Capacity: psig
Start Date: 2022.01.15 End Date: 2022.01.16 Last Calib.: 1899.12.30
Start Time: 17:30:01 End Time: 00:58:02 Time On Btm: 2022.01.15 @ 19:28:47
Time Off Btm: 2022.01.15 @ 21:49:47

TEST COMMENT: IF-Strong blow , built to 7" 30 min
IS- No returns 50 min Draw orks broke down
FF- Wsb built to 1/2" 30 min
FS- No returns 30 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.85	110.96	Initial Hydro-static
1	64.30	112.63	Open To Flow (1)
29	83.14	114.61	Shut-In(1)
79	1364.43	115.58	End Shut-In(1)
80	89.68	115.25	Open To Flow (2)
110	95.82	115.93	Shut-In(2)
141	853.85	116.31	End Shut-In(2)
142	2163.43	116.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	SL OSM 1% Oil 99% Mud	1.74

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th ST
Newton, KS 67114-5827
ATTN: Keaton Jones

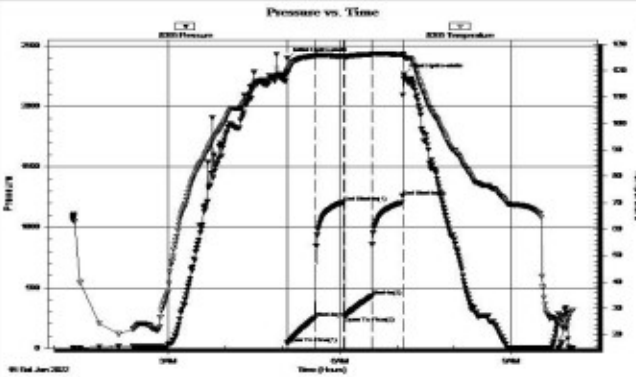
10-17-2S, Ness KS
Mishler Maslo Unit 1
Job Ticket: 68455 **DST#: 3**
Test Start: 2022.01.15 @ 01:20:00

GENERAL INFORMATION:

Formation: **Lower Miss.**
Deviated: No Whipstock: ft (KB)
Test Type: Conventional Straddle (Initial)
Time Tool Opened: 05:05:02
Tester: Kevin Webster
Time Test Ended: 10:04:02
Unit No: 72
Interval: **4461.00 ft (KB) To 4493.00 ft (KB) (TVD)**
Reference Elevations: 2477.00 ft (KB)
Total Depth: 4549.00 ft (KB) (TVD)
2467.00 ft (CF)
Hole Diameter: 7.78 inches Hole Condition: Good
KB to GR/CF: 10.00 ft

Serial #: 8365 Outside
Press@RunDepth: 429.82 psig @ 4462.00 ft (KB) Capacity: psig
Start Date: 2022.01.15 End Date: 2022.01.15 Last Calib.: 2022.01.15
Start Time: 01:20:01 End Time: 10:04:02 Time On Btm: 2022.01.15 @ 05:04:32
Time Off Btm: 2022.01.15 @ 07:07:02

TEST COMMENT: IF- Strong blow , bob 6 min 30 min
IS- No returns 30 min
FF- Strong blow , bob 7 min 30 min
FSI- No returns 30 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2395.70	119.40	Initial Hydro-static
1	39.62	119.09	Open To Flow (1)
30	252.41	125.60	Shut-In(1)
60	1207.43	125.42	End Shut-In(1)
61	260.60	125.16	Open To Flow (2)
89	429.82	126.20	Shut-In(2)
121	1258.07	126.08	End Shut-In(2)
123	2266.43	125.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	5% Gas TR Oil 15%Water 80% Mud	1.74
744.00	5% Gas TR Oil 95% Water	10.44

Gas Rates

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

TriLOBITE Testing, Inc

Ref. No: 68455

Printed: 2022.01.15 @ 12:31:43

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst

- Coal
- Congl
- Dol
- Gyp
- Igne

- Lmst
- Meta
- Mrlst
- Salt
- Shale

- Shcol
- Shgy
- Sltst
- Ss
- Till

☉ Cfs

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Even
- Spotted
- Ques

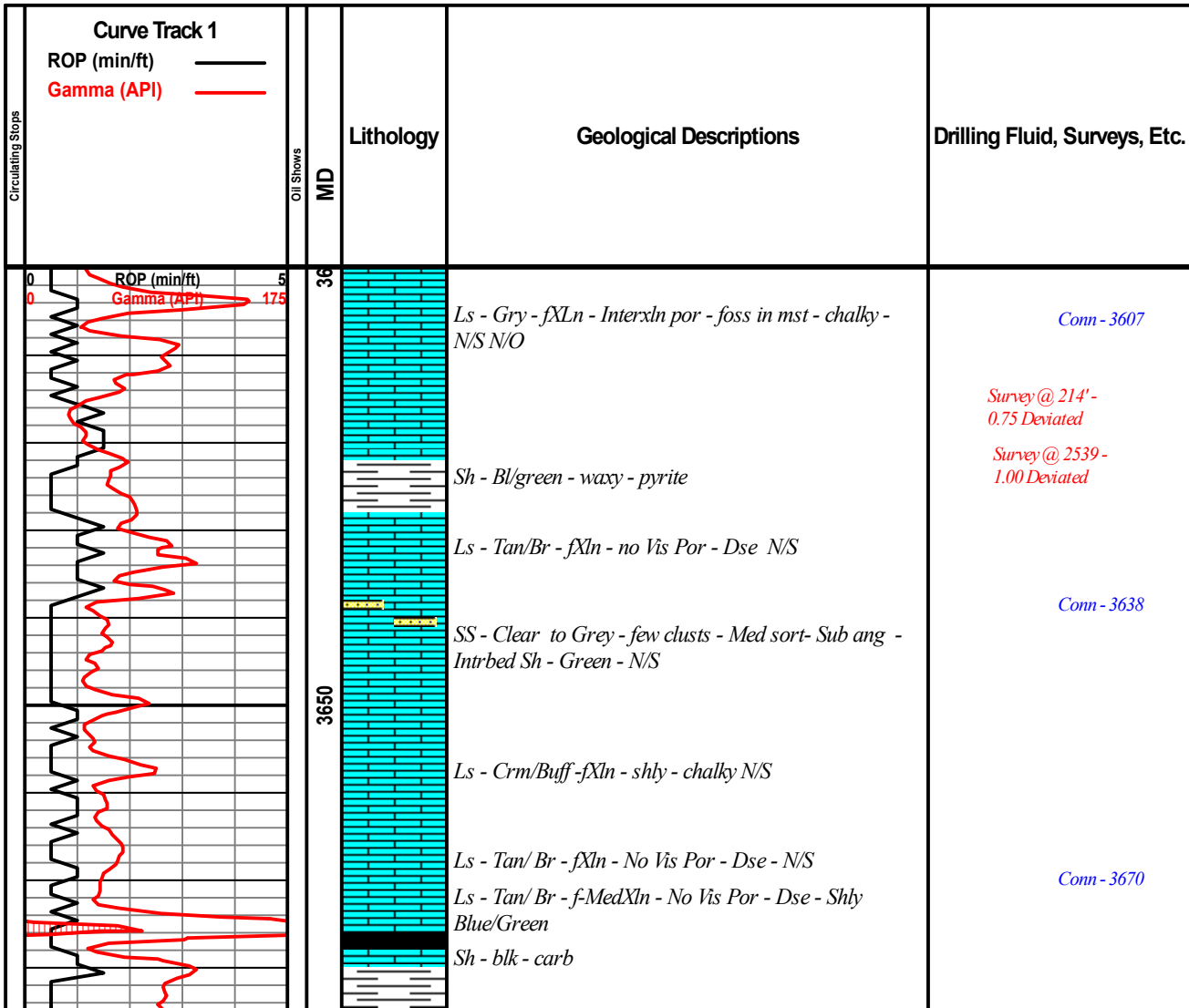
- Even
- Spotted
- Ques

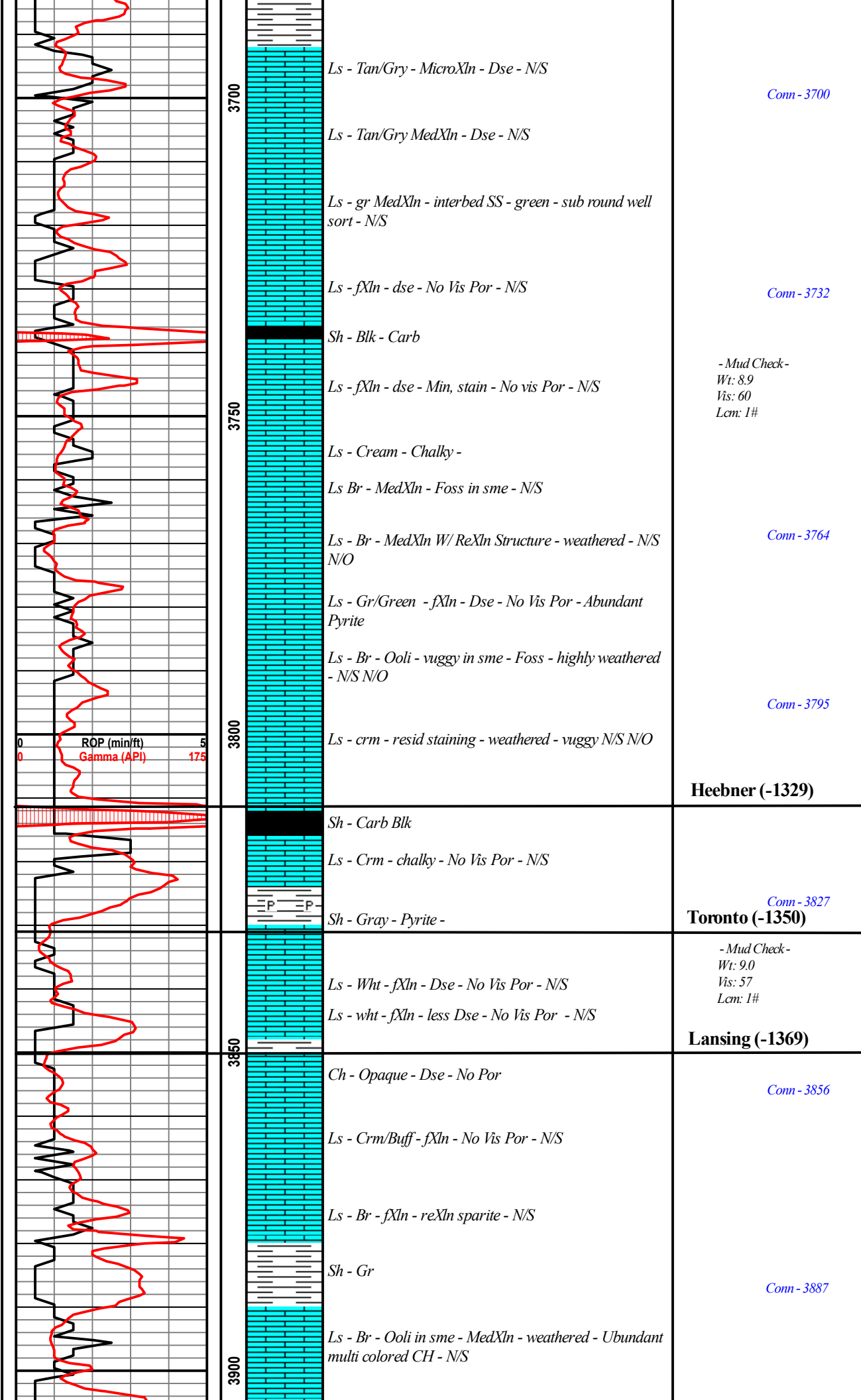
INTERVAL

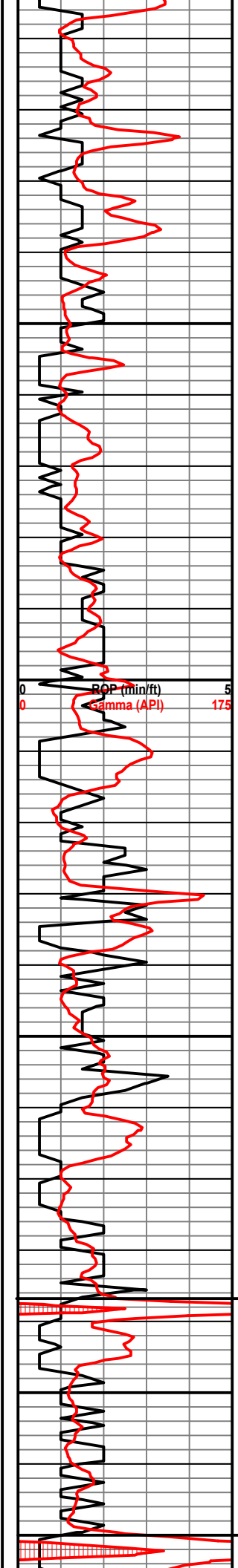
- Core
- Dst 2
- Dst

EVENT

- Rft
- Sidewall

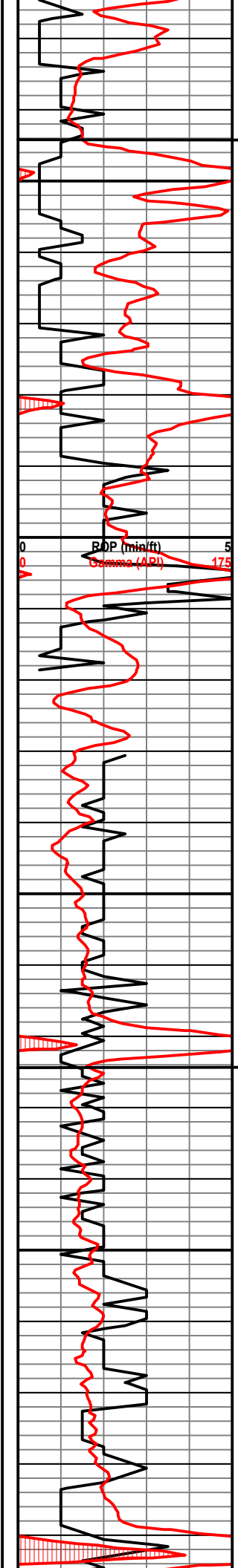






Ls - Crm - fXln - No Vis Por - N/S
Ls - Br - MedXln - Slightly weathered & Vuggy Por in Sme - N/S
Ls - Crm/Buf - fMedXln - SLightly Weathered - N/S
Ls - Crm/Buf - FineXln - No Vis Por N/S
Ls - Br - MedXln - Vry Few W/ Oolic Por - N/S N/O
Ls - Gr - MedXln - Highly Oolitic por - N/S N/O
Ls - Br - fXln - No Vis Por - N/S
Ls - br/Gr - fXln - No Vis Por - N/S
Ls - Gr - Dse - Shly - MedXln - No Vis Por - N/S
Sh - Gr
Ls - Br - fXln -Dse - No Vis Por -
Sh - gr
Ls - br - fXln - Dse - no Vis Por - N/S
Ls - crm - MedXln - InterXln Por - fairly Dse - N/S
Ls - Br - MedXln - Highly oolic W./Interconn Por - ooli in most - N/S N/O
Ls - crm/br transitioning into MedXln foss - Dse - few Oolic/Ooli Por - N/S
Ls - Gr - fXln - Vry Dse - No Vis Por
As Above
Shl Blk Carb

Conn - 3918
 - Mud Check -
 Wt: 9.1
 Vis: 54
 Lcm: 1#
 Conn - 3950
 Conn - 3983
 Conn - 4014
 - Mud Check -
 Wt: 9.1
 Vis: 52
 Lcm: 1#
 Conn - 4045
 - Mud Check -
 Wt: 9.4
 Vis: 52
 Lcm: 1#
 Conn - 4076
Stark (-1605)
 Jet #1 Add Premix
 Conn - 4108
Hushpuckney (-1639)



Sh - Blk Carb

Ls - Gr - fXln - Vry Dse - No Vis Por

4150

Sh - Blk - Carb

Ch - Multi colored Vry Dse

Ls - various colors - sandy - Dse - W/ multicolored CH N/S

Sh - Blue/green to Purple - Sandy W/ Ls

4200

BOP (min/ft) 5
Gamma (API) 175

Ls-Ch-SS-Sh various colors

NO DRILL TIME - RIG HANDS SCREWED UP

Ls - Crm/ Buff - fXln - Vry Dse - No Vis Por - N/S

Ls - crm/ Buff - F/ MedXln - Dse W/ sme dolomitic

4250

Cherty Ls - crm - Med Xln - Sandy in Part - interbedded
Green Sh with Ooli Por - N/S

Ls - tan fXln - Dse - N/S No Vis Por.

4300

Ls - tan - MedXln - fairly dse W/ sand grains - Sub rounded well sorted - no solid clusters

Ls - tan - Clear - MedXln dolomitic - InterXln Por - N/S

Sh - Blk - Dse

Conn - 4140

Base KC (-1664)

Conn - 4171

Conn - 4203

- Mud Check -
Wt: 9.3
Vis: 58

Conn - 4234

Mud Co/Service report
Depth - 4247
Pump Pressure 800
Bottoms Up 39 min
Weight - 9.2
Viscosity - 57
Filtrate - 5.8
Chloride 800 ppm
LCm 1#

Conn - 4266

Pawnee (-1792)

DST (2) Fort Scott
Interval - 4320-4376
30-30-30-30
IF: 7"
ISI" No Blow
FF: 1/2"
FSI No Blow

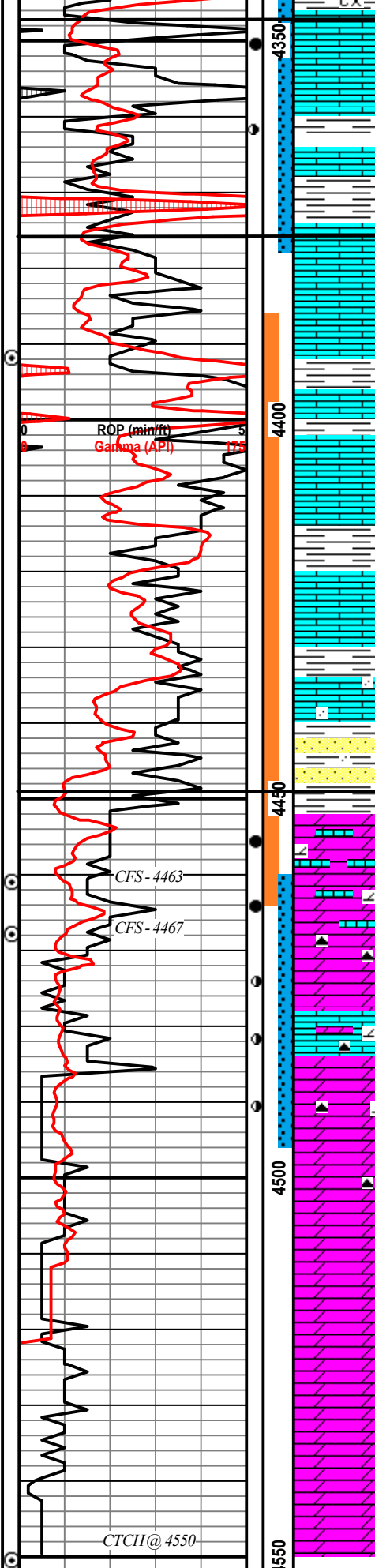
Conn - 4297

IH: 2198 FH: 2163
FIF: 64 FFF: 83
SIF: 89 SFF: 95
ISIP: 1364 FSIP: 853

Recovery - 124'
124' SLOSM 1%O, 99%M

Conn - 4328

Fort Scott (-1865)



Ls - Br - MedXln - Vuggy/Oolic Por - highly weathered sme pin point por - fairly saturated - sme live gas - live oil when broken - weak odor - No streaming flour

Sh - Mstly Gr - Sme red beds

Conn - 4360

Cherokee (-1893)

Ls - Tan /Buff- Dse - some foss - No Vis good Por - Relatively dirty zone with intrbedded shales, sands, and chert N/S N/O

Mud Co/Service report
 Depth - 4391
 Pump Pressure 800
 Bottoms up 40 min
 Weight - 9.1
 Viscosity - 55
 Filtrate - 5.8
 Chloride 900 ppm
 Lcm - 1

Conn - 4391

Bit Trip @ 4391

Ls - br-clear W/SS clusters - Dse - MedXln - No good visual Por - No Shows No Odor

Ch - Various colors - mstly yellow with inbed shales multi colored as well

Conn - 4423

-Mud Check-
 Wt: 9.4
 Vis: 55

Mississippian (-1967)

Dol - Ls - br - dse Med Xln - vuggy SFO&G Strong odr

DST (1) Miss
 Interval - 4386-4467
 30-30-30-30
 IF: 20"
 ISI: No Blow
 FF: 9"
 FSI: No Blow
 IH: 2264 FH:2206
 FIF: 64 FFF: 166
 SIF: 164 SFF: 218
 ISIP:996 FSIP:886

Conn - 4486

Dol - br - sucrosic - vuggy - weathered por - dse - SFO&G strong odr - well saturated when broken. No Streaming Flour

Dol - Br/ Pink Tint - Sucrosic to vuggy Por - MedXln - Dse - Heay residule staining - fair odor - Show of gas when broken in few samples. few oil specks when broken - No Streaming Flour

Ls - Tan - dolomitic in sme- MedXln - Vuggy -Oom Por in mst - slight show of Heavy oil - live oil on break - Strong Odor

Recovery - 335'
 149' MCO - 50% O, 50%M
 186' HOCM - 15%O, 85%M

Conn - 4517

Dol - crm/Buff- Micro/fXln - N/S oil - declining odor

Dol - crm/Buff- Micro/fXln - N/S - Weak if any odor

DST (3) Lower Miss
 Interval - 4461-4493
 30-30-30-30
 IF:BOB 6 min
 ISI: No Blow
 FF: BOB 7 min
 FSI:No Blow

Conn - 4548

As Above - N/S NO

IH: 2395 FH: 2266
 FIF: 39 FFF: 252
 SIF: 260 SFF: 429
 ISIP; 1207 FSIP;1258

Recovery - 868
 124' GWCM 5%G, 15%wtr, 80%M, TR Oil

R.TD 4550
 L.TD 4549



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114-5827

ATTN: Keaton Jones

Mishler Maslo Unit 1

10-17-2S Ness,KS

Start Date: 2022.01.14 @ 17:45:00

End Date: 2022.01.15 @ 01:57:02

Job Ticket #: 68453 DST #: 1

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

Printed: 2022.01.17 @ 12:07:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St
New ton, KS 67114-5827
ATTN: Keaton Jones

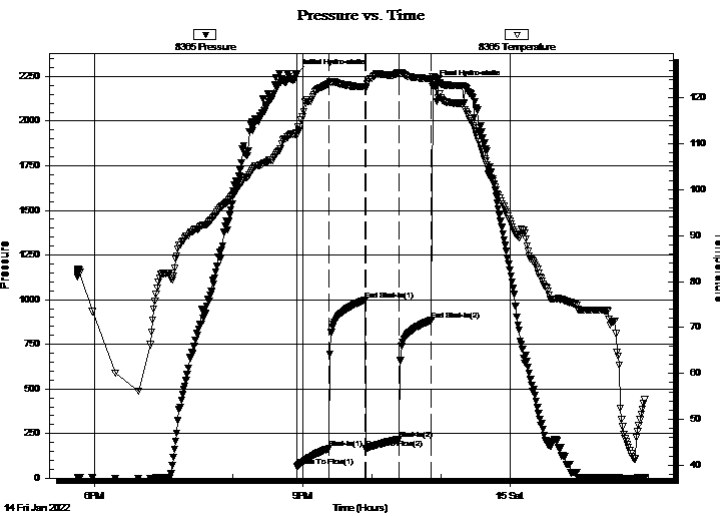
10-17-2S Ness, KS
Mishler Maslo Unit 1
Job Ticket: 68453 **DST#: 1**
Test Start: 2022.01.14 @ 17:45:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 20:55:02 Tester: Kevin Webster
Time Test Ended: 01:57:02 Unit No: 72
Interval: 4386.00 ft (KB) To 4467.00 ft (KB) (TVD) Reference Elevations: 2477.00 ft (KB)
Total Depth: 4467.00 ft (KB) (TVD) 2467.00 ft (CF)
Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8365 Inside
Press@RunDepth: 218.50 psig @ 4387.00 ft (KB) Capacity: psig
Start Date: 2022.01.14 End Date: 2022.01.15 Last Calib.: 2022.01.14
Start Time: 17:45:01 End Time: 01:57:02 Time On Btm: 2022.01.14 @ 20:54:47
Time Off Btm: 2022.01.14 @ 22:53:47

TEST COMMENT: IF- Fair blow built to 20" 30 min
IS- No returns 30 min
FF- WSB built to 9" 30 min
FS- No returns 30 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2264.32	112.45	Initial Hydro-static
1	64.53	111.78	Open To Flow (1)
29	166.59	123.04	Shut-In(1)
60	996.85	122.44	End Shut-In(1)
60	164.46	122.11	Open To Flow (2)
90	218.50	125.41	Shut-In(2)
118	886.61	124.11	End Shut-In(2)
119	2206.31	124.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
149.00	50% Oil 50% Mud	2.09
186.00	15% Oil 85% Mud	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St
New ton, KS 67114-5827
ATTN: Keaton Jones

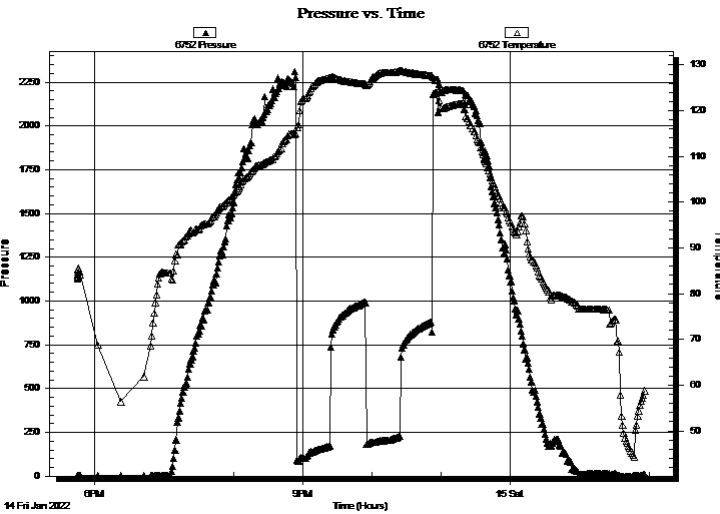
10-17-2S Ness, KS
Mishler Maslo Unit 1
Job Ticket: 68453 **DST#: 1**
Test Start: 2022.01.14 @ 17:45:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 20:55:02 Tester: Kevin Webster
Time Test Ended: 01:57:02 Unit No: 72
Interval: 4386.00 ft (KB) To 4467.00 ft (KB) (TVD) Reference Elevations: 2477.00 ft (KB)
Total Depth: 4467.00 ft (KB) (TVD) 2467.00 ft (CF)
Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 6752 Outside
Press@RunDepth: psig @ 4387.00 ft (KB) Capacity: psig
Start Date: 2022.01.14 End Date: 2022.01.15 Last Calib.: 2022.01.14
Start Time: 17:45:01 End Time: 01:57:02 Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Fair blow built to 20" 30 min
IS- No returns 30 min
FF- WSB built to 9" 30 min
FS- No returns 30 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
149.00	50% Oil 50% Mud	2.09
186.00	15% Oil 85% Mud	2.61

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum
4924 SE 84th St
New ton, KS 67114-5827
ATTN: Keaton Jones

10-17-2S Ness,KS
Mishler Maslo Unit 1
Job Ticket: 68453 **DST#: 1**
Test Start: 2022.01.14 @ 17:45:00

Tool Information

Drill Pipe:	Length: 4379.00 ft	Diameter: 3.80 inches	Volume: 61.43 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 61.43 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4386.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	108.00 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			4360.00	
Shut In Tool	5.00			4365.00	
Hydraulic tool	5.00			4370.00	
Jars	5.00			4375.00	
Safety Joint	2.00			4377.00	
Packer	5.00			4382.00	27.00 Bottom Of Top Packer
Packer	4.00			4386.00	
Stubb	1.00			4387.00	
Recorder	0.00	8365	Inside	4387.00	
Recorder	0.00	6752	Outside	4387.00	
Perforations	13.00			4400.00	
Change Over Sub	1.00			4401.00	
Drill Pipe	62.00			4463.00	
Change Over Sub	1.00			4464.00	
Bullnose	3.00			4467.00	81.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum
4924 SE 84th St
New ton, KS 67114-5827
ATTN: Keaton Jones

10-17-2S Ness, KS
Mishler Maslo Unit 1
Job Ticket: 68453 **DST#: 1**
Test Start: 2022.01.14 @ 17:45:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
149.00	50% Oil 50% Mud	2.090
186.00	15% Oil 85% Mud	2.609

Total Length: 335.00 ft Total Volume: 4.699 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 1# Lcm

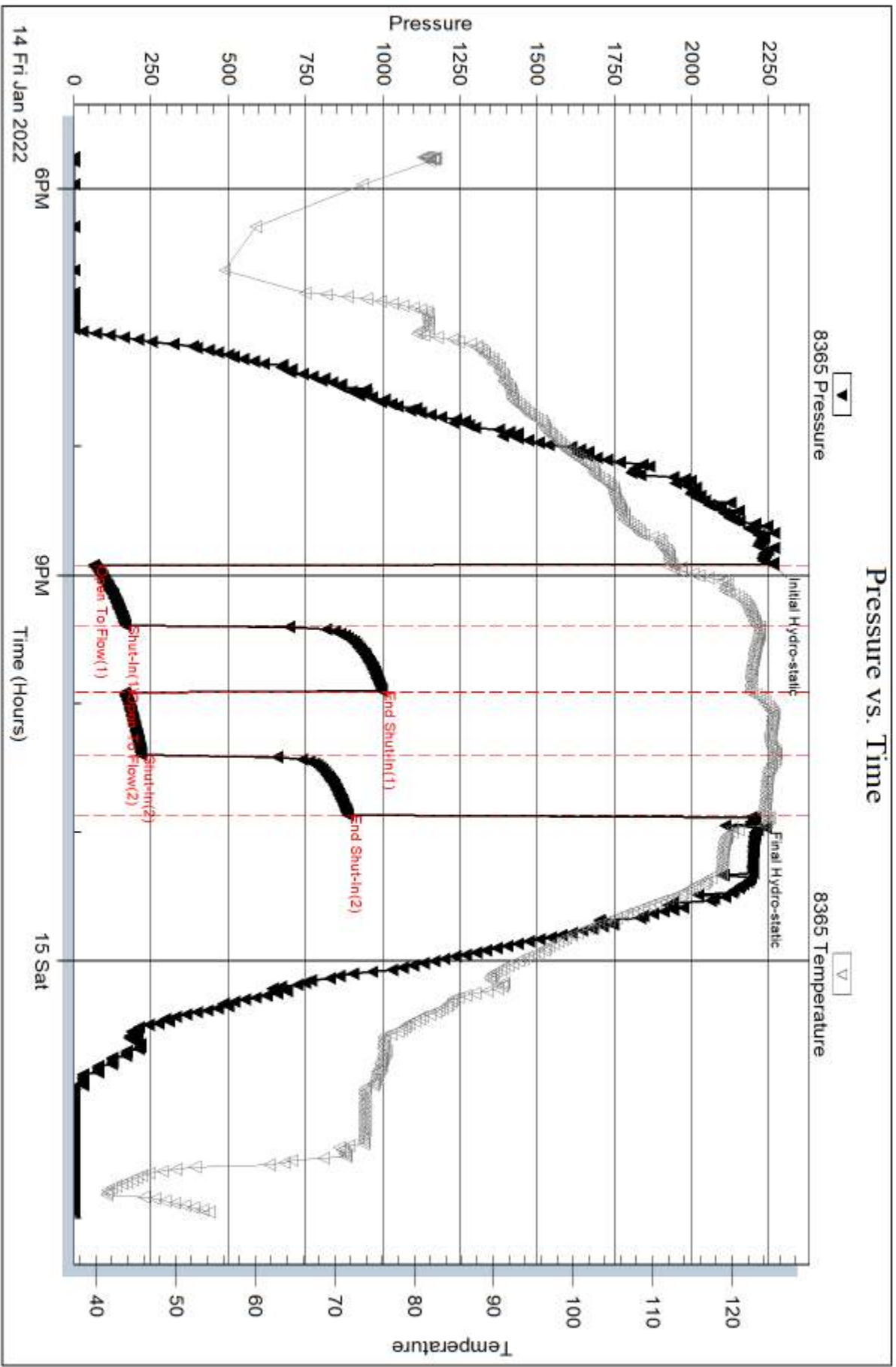
Serial #: 8365

Inside

Palomino Petroleum

Wahler Masio Unit 1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68453

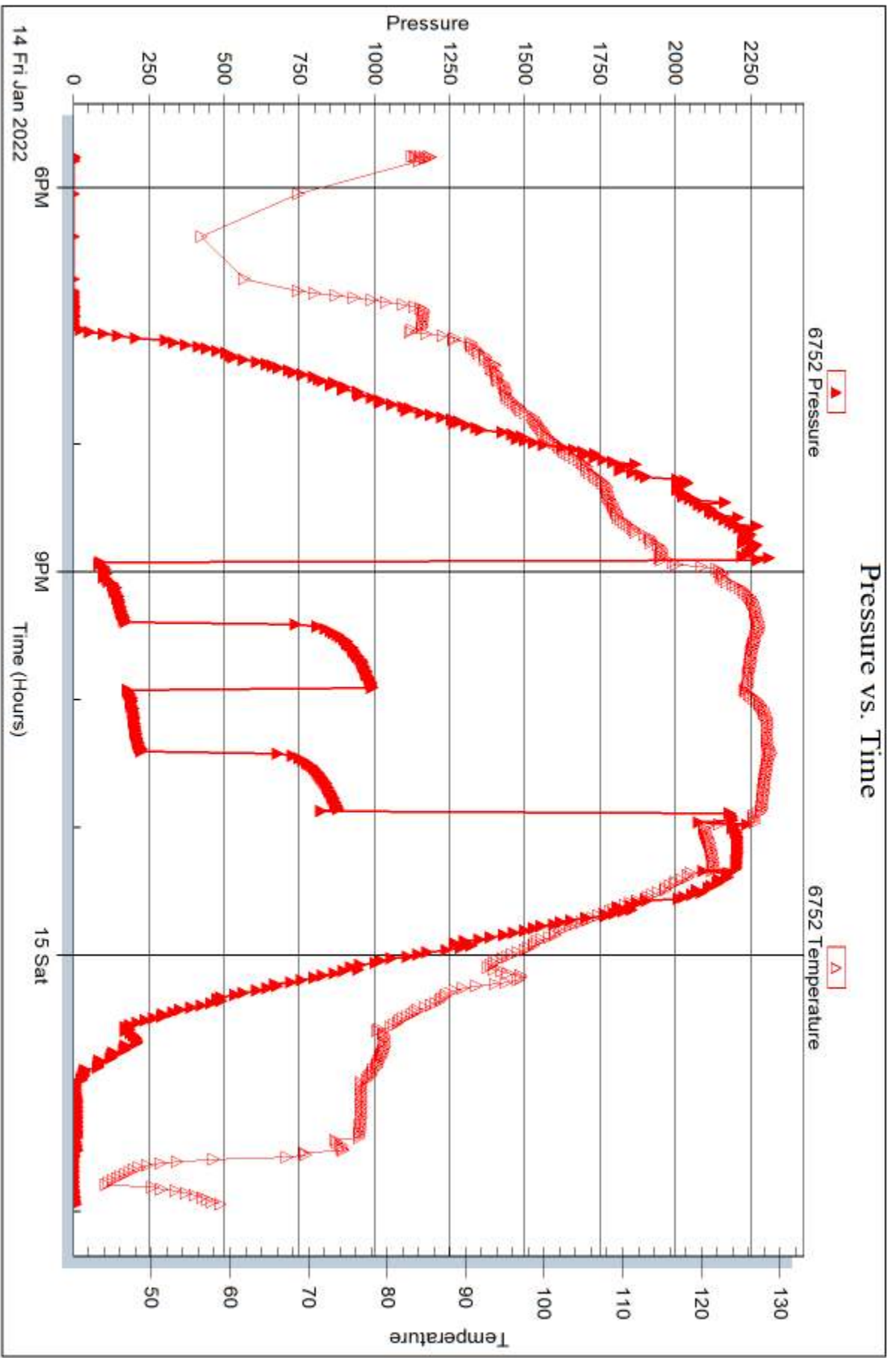
Printed: 2022.01.17 @ 12:07:22

Serial #: 6752

Outside Palomino Petroleum

Wahler Maslo Unit 1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68453

Printed: 2022.01.17 @ 12:07:22



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114-5827

ATTN: Keaton Jones

Mishler Maslo Unit 1

10-17-2S Ness,KS

Start Date: 2022.01.15 @ 17:30:00

End Date: 2022.01.16 @ 00:58:02

Job Ticket #: 68454 DST #: 2

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

Printed: 2022.01.17 @ 12:06:38



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 New ton, KS 67114-5827
 ATTN: Keaton Jones

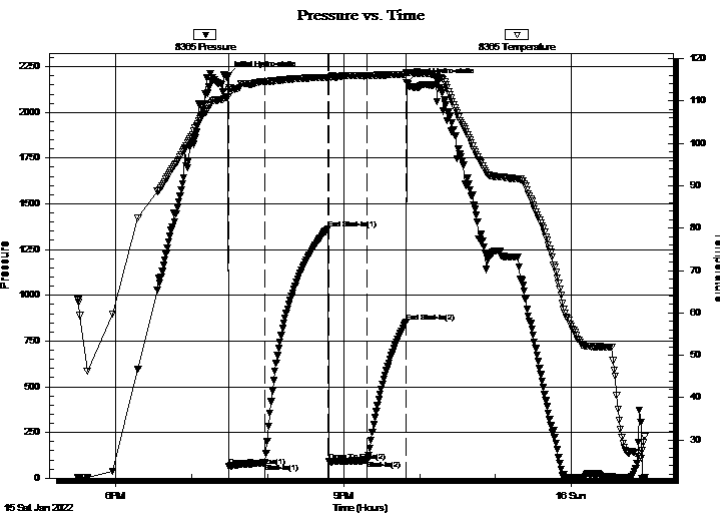
10-17-2S Ness, KS
Mishler Maslo Unit 1
 Job Ticket: 68454 **DST#: 2**
 Test Start: 2022.01.15 @ 17:30:00

GENERAL INFORMATION:

Formation: **Fort Scott**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 19:29:32 Tester: Kevin Webster
 Time Test Ended: 00:58:02 Unit No: 72
Interval: 4320.00 ft (KB) To 4386.00 ft (KB) (TVD) Reference Elevations: 2477.00 ft (KB)
 Total Depth: 4549.00 ft (KB) (TVD) 2467.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8365 Outside
 Press@RunDepth: 95.82 psig @ 4366.00 ft (KB) Capacity: psig
 Start Date: 2022.01.15 End Date: 2022.01.16 Last Calib.: 1899.12.30
 Start Time: 17:30:01 End Time: 00:58:02 Time On Btm: 2022.01.15 @ 19:28:47
 Time Off Btm: 2022.01.15 @ 21:49:47

TEST COMMENT: IF-Strong blow , built to 7" 30 min
 IS- No returns 50 min Draw works broke down
 FF- Wsb built to 1/2" 30 min
 FS- No returns 30 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.85	110.96	Initial Hydro-static
1	64.30	112.63	Open To Flow (1)
29	83.14	114.61	Shut-In(1)
79	1364.43	115.58	End Shut-In(1)
80	89.68	115.25	Open To Flow (2)
110	95.82	115.93	Shut-In(2)
141	853.85	116.31	End Shut-In(2)
142	2163.43	116.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	1% Oil 99% Mud	1.74

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St
New ton, KS 67114-5827
ATTN: Keaton Jones

10-17-2S Ness, KS
Mishler Maslo Unit 1
Job Ticket: 68454 **DST#: 2**
Test Start: 2022.01.15 @ 17:30:00

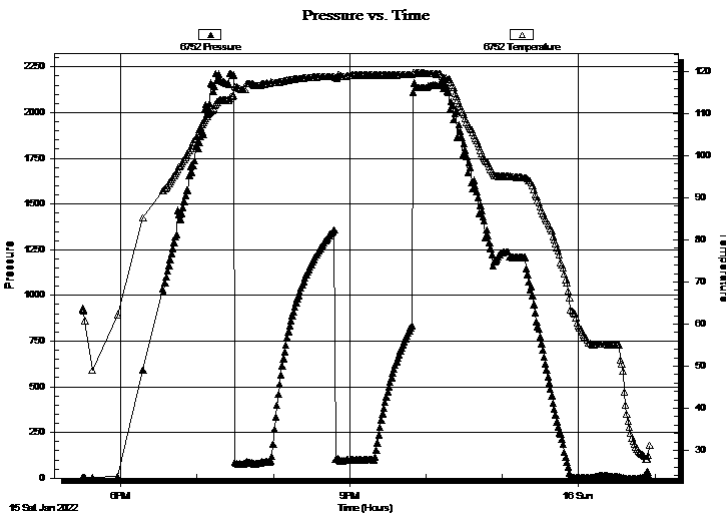
GENERAL INFORMATION:

Formation: **Fort Scott**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
Time Tool Opened: 19:29:32 Tester: Kevin Webster
Time Test Ended: 00:58:02 Unit No: 72
Interval: **4320.00 ft (KB) To 4386.00 ft (KB) (TVD)** Reference Elevations: 2477.00 ft (KB)
Total Depth: 4549.00 ft (KB) (TVD) 2467.00 ft (CF)
Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 6752 Outside

Press@RunDepth: psig @ 4366.00 ft (KB) Capacity: psig
Start Date: 2022.01.15 End Date: 2022.01.16 Last Calib.: 1899.12.30
Start Time: 17:30:01 End Time: 00:56:02 Time On Btm:
Time Off Btm:

TEST COMMENT: IF-Strong blow , built to 7" 30 min
IS- No returns 50 min Draw works broke down
FF- Wsb built to 1/2" 30 min
FS- No returns 30 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	1% Oil 99% Mud	1.74

Gas Rates

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

* Recovery from multiple tests



DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 Newton, KS 67114-5827
 ATTN: Keaton Jones

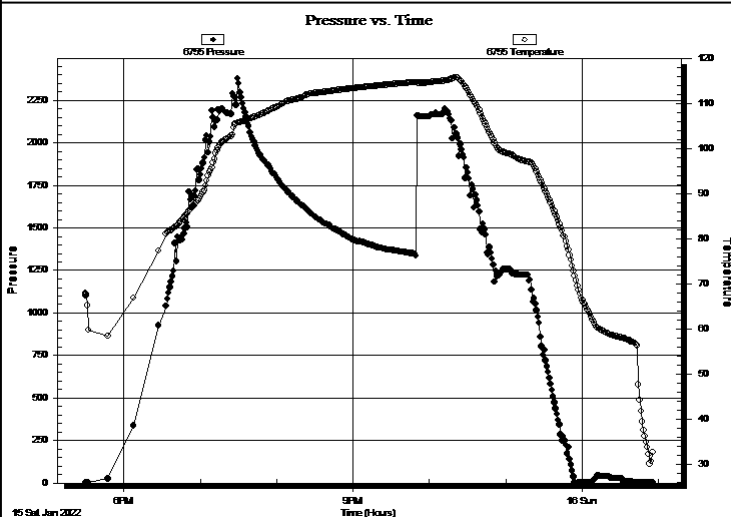
10-17-2S Ness, KS
Mishler Maslo Unit 1
 Job Ticket: 68454 **DST#: 2**
 Test Start: 2022.01.15 @ 17:30:00

GENERAL INFORMATION:

Formation:	Fort Scott		Test Type:	Conventional Straddle (Reset)
Deviated:	No Whipstock:	ft (KB)	Tester:	Kevin Webster
Time Tool Opened:	19:29:32		Unit No:	72
Time Test Ended:	00:58:02		Reference Elevations:	2477.00 ft (KB) 2467.00 ft (CF)
Interval:	4320.00 ft (KB) To 4386.00 ft (KB) (TVD)		KB to GR/CF:	10.00 ft
Total Depth:	4549.00 ft (KB) (TVD)			
Hole Diameter:	7.78 inches	Hole Condition: Poor		

Serial #: 6755	Below (Straddle)				
Press@RunDepth:	psig @ 4547.00 ft (KB)	Capacity:		psig	
Start Date:	2022.01.15	End Date:	2022.01.16	Last Calib.:	1899.12.30
Start Time:	17:30:01	End Time:	00:56:02	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IF-Strong blow , built to 7" 30 min
 IS- No returns 50 min Draw works broke down
 FF- Wsb built to 1/2" 30 min
 FS- No returns 30 min



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

Recovery		
Length (ft)	Description	Volume (bbl)
124.00	1% Oil 99% Mud	1.74

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
4924 SE 84th St
New ton, KS 67114-5827
ATTN: Keaton Jones

10-17-2S Ness,KS
Mishler Maslo Unit 1
Job Ticket: 68454 **DST#: 2**
Test Start: 2022.01.15 @ 17:30:00

Tool Information

Drill Pipe:	Length: 4320.00 ft	Diameter: 3.80 inches	Volume: 60.60 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.60 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4320.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	4386.00 ft			
Interval between Packers:	66.00 ft			
Tool Length:	257.00 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			4298.00	
Hydraulic tool	5.00			4303.00	
Jars	5.00			4308.00	
Safety Joint	3.00			4311.00	
Packer	5.00			4316.00	27.00 Bottom Of Top Packer
Packer	4.00			4320.00	
Stubb	1.00			4321.00	
Change Over Sub	1.00			4322.00	
Drill Pipe	31.00			4353.00	
Change Over Sub	1.00			4354.00	
Perforations	12.00			4366.00	
Recorder	0.00	6752	Outside	4366.00	
Recorder	0.00	8365	Outside	4366.00	
Perforations	19.00			4385.00	
Blank Spacing	1.00			4386.00	66.00 Tool Interval
Packer	4.00			4390.00	
Stubb	1.00			4391.00	
Change Over Sub	1.00			4392.00	
Drill Pipe	154.00			4546.00	
Change Over Sub	1.00			4547.00	
Recorder	0.00	6755	Below	4547.00	
Bullnose	3.00			4550.00	164.00 Bottom Packers & Anchor

Total Tool Length: 257.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum
4924 SE 84th St
New ton, KS 67114-5827
ATTN: Keaton Jones

10-17-2S Ness, KS
Mishler Maslo Unit 1
Job Ticket: 68454 **DST#: 2**
Test Start: 2022.01.15 @ 17:30:00

Mud and Cushion Information

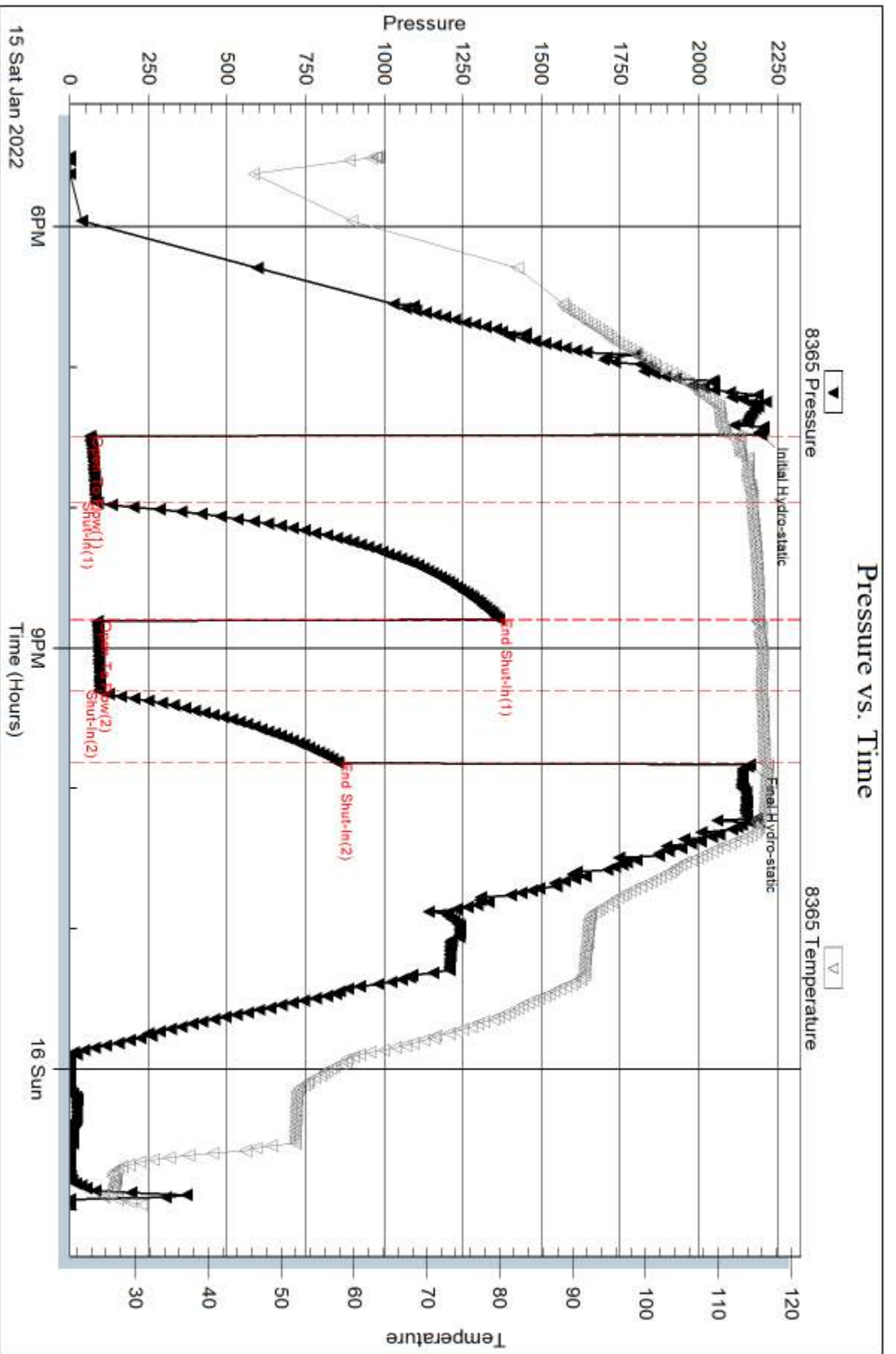
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	1% Oil 99% Mud	1.739

Total Length: 124.00 ft Total Volume: 1.739 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .5#LCM



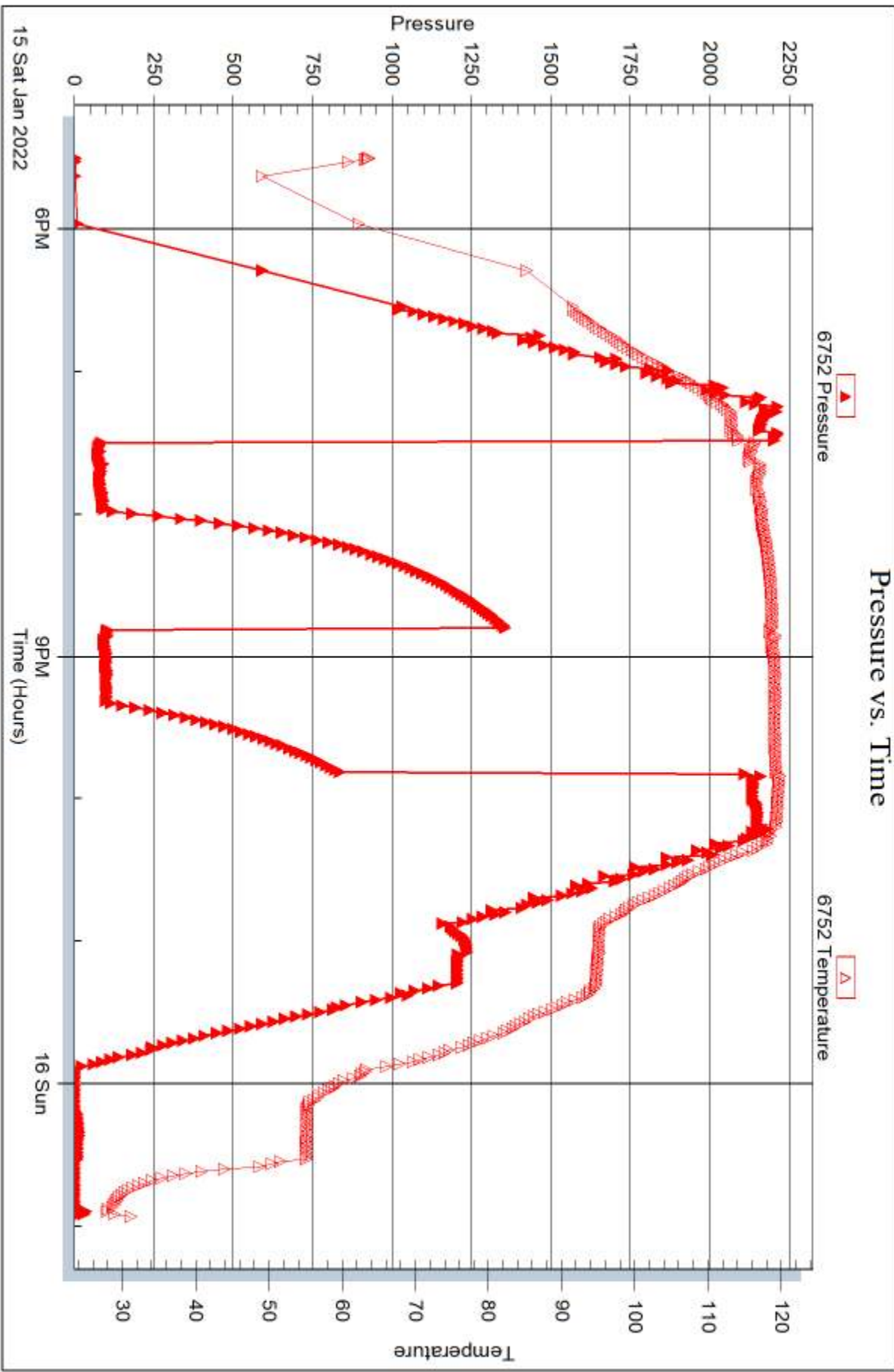
Serial #: 6752

Outside

Palomino Petroleum

Wahler Maslo Unit 1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68454

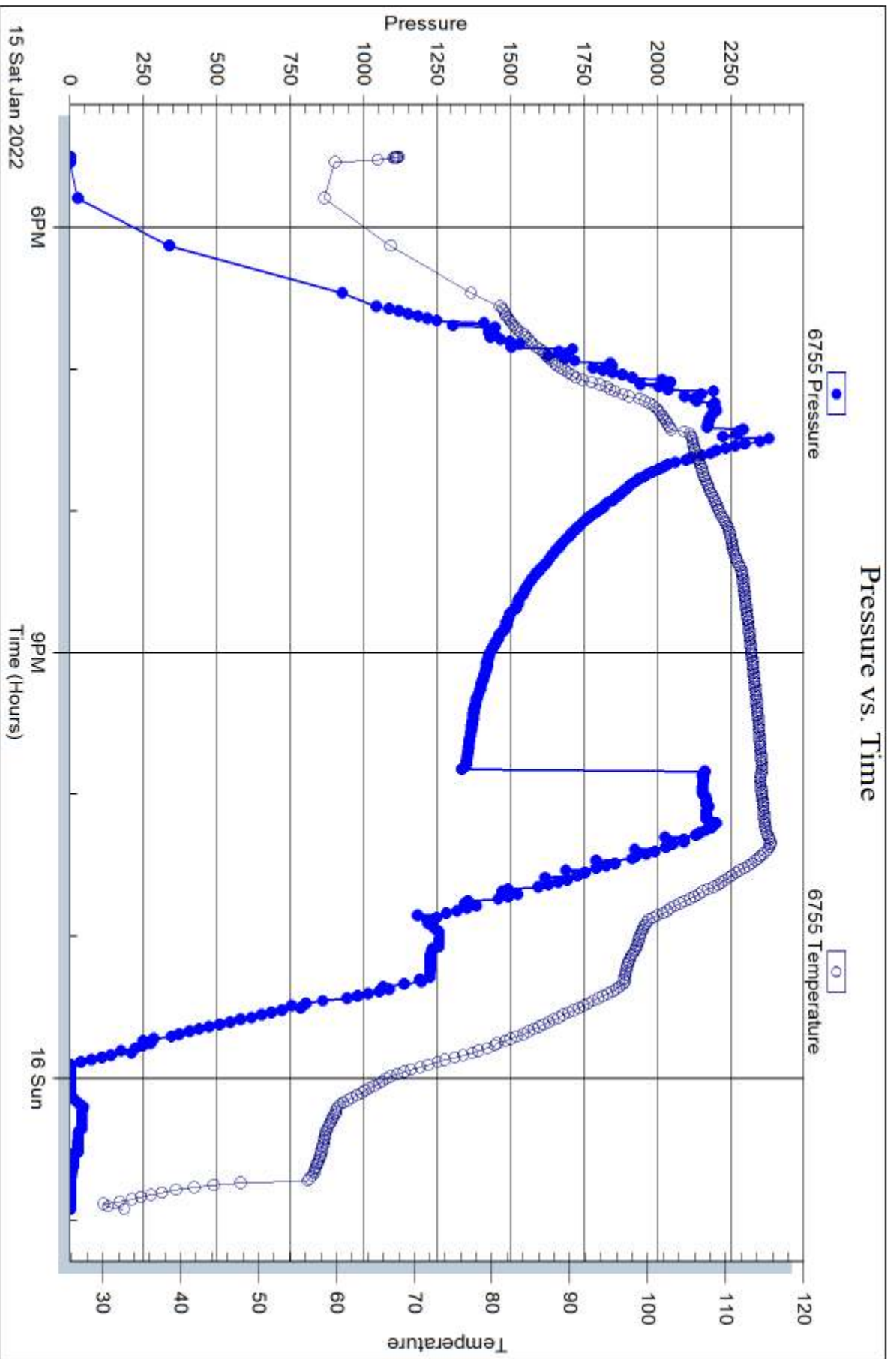
Printed: 2022.01.17 @ 12:06:40

Serial #: 6755

Below (Str Rattenho Petroleum

Wahler Maslo Unit 1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68454

Printed: 2022.01.17 @ 12:06:40



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114-5827

ATTN: Keaton Jones

Mishler Maslo Unit 1

10-17-2S Ness,KS

Start Date: 2022.01.15 @ 01:20:00

End Date: 2022.01.15 @ 10:04:02

Job Ticket #: 68455 DST #: 3

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

Printed: 2022.01.17 @ 12:04:46



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 New ton, KS 67114-5827
 ATTN: Keaton Jones

10-17-2S Ness, KS
Mishler Maslo Unit 1
 Job Ticket: 68455 **DST#: 3**
 Test Start: 2022.01.15 @ 01:20:00

GENERAL INFORMATION:

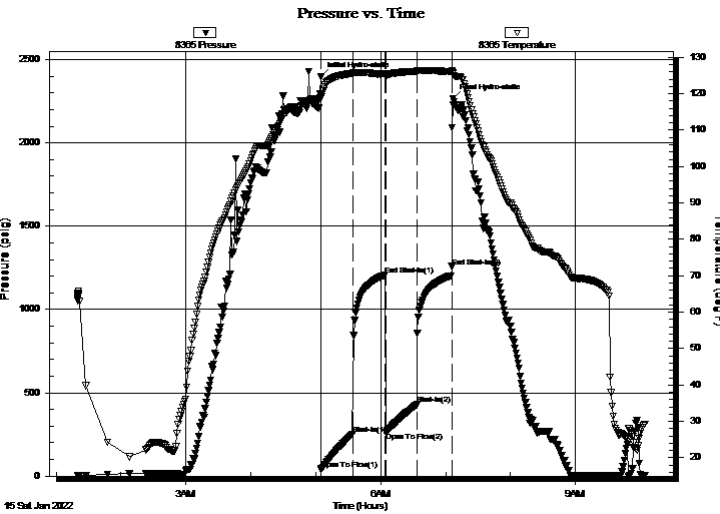
Formation: **Lower Miss.**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Initial)
 Time Tool Opened: 05:05:02 Tester: Kevin Webster
 Time Test Ended: 10:04:02 Unit No: 72
 Interval: **4461.00 ft (KB) To 4493.00 ft (KB) (TVD)** Reference Elevations: 2477.00 ft (KB)
 Total Depth: 4549.00 ft (KB) (TVD) 2467.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Good KB to GR/CF: 10.00 ft

Serial #: 8365

Outside

Press@RunDepth: 429.82 psig @ 4462.00 ft (KB) Capacity: psig
 Start Date: 2022.01.15 End Date: 2022.01.15 Last Calib.: 2022.01.15
 Start Time: 01:20:01 End Time: 10:04:02 Time On Btm: 2022.01.15 @ 05:04:32
 Time Off Btm: 2022.01.15 @ 07:07:02

TEST COMMENT: IF- Strong blow , bob 6 min 30 min
 IS- No returns 30 min
 FF- Strong blow , bob 7 min 30 min
 FS- No returns 30 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2395.70	119.40	Initial Hydro-static
1	39.62	119.09	Open To Flow (1)
30	252.41	125.60	Shut-In(1)
60	1207.43	125.42	End Shut-In(1)
61	260.60	125.16	Open To Flow (2)
89	429.82	126.20	Shut-In(2)
121	1258.07	126.08	End Shut-In(2)
123	2266.43	125.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	5% Gas TR Oil 15% Water 80% Mud	1.74
744.00	5% Gas TR Oil 95% Water	10.44

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Palomino Petroleum
 4924 SE 84th St
 New ton, KS 67114-5827
 ATTN: Keaton Jones

10-17-2S Ness, KS
Mishler Maslo Unit 1
 Job Ticket: 68455 **DST#: 3**
 Test Start: 2022.01.15 @ 01:20:00

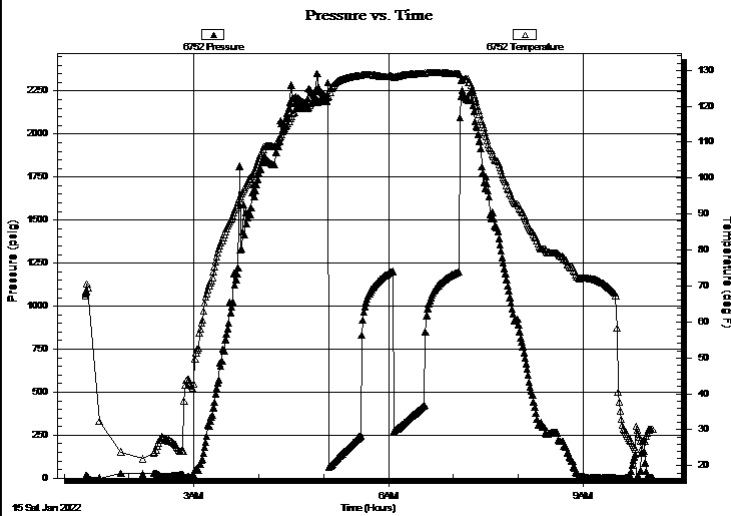
GENERAL INFORMATION:

Formation: **Lower Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:05:02
 Time Test Ended: 10:04:02
 Interval: **4461.00 ft (KB) To 4493.00 ft (KB) (TVD)**
 Total Depth: 4549.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Good
 Test Type: Conventional Straddle (Initial)
 Tester: Kevin Webster
 Unit No: 72
 Reference Elevations: 2477.00 ft (KB)
 2467.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6752 Outside

Press@RunDepth: psig @ 4462.00 ft (KB) Capacity: psig
 Start Date: 2022.01.15 End Date: 2022.01.15 Last Calib.: 2022.01.15
 Start Time: 01:20:01 End Time: 10:04:02 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Strong blow , bob 6 min 30 min
 IS- No returns 30 min
 FF- Strong blow , bob 7 min 30 min
 FS- No returns 30 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	5% Gas TR Oil 15% Water 80% Mud	1.74
744.00	5% Gas TR Oil 95% Water	10.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum
4924 SE 84th St
New ton, KS 67114-5827
ATTN: Keaton Jones

10-17-2S Ness, KS
Mishler Maslo Unit 1
Job Ticket: 68455 **DST#: 3**
Test Start: 2022.01.15 @ 01:20:00

Tool Information

Drill Pipe:	Length: 4447.00 ft	Diameter: 3.80 inches	Volume: 62.38 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.38 bbl</u>	Tool Chased 50.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4461.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	4493.00 ft			
Interval between Packers:	32.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4439.00	
Hydraulic tool	5.00			4444.00	
Jars	5.00			4449.00	
Safety Joint	3.00			4452.00	
Packer	5.00			4457.00	27.00 Bottom Of Top Packer
Packer	4.00			4461.00	
Stubb	1.00			4462.00	
Recorder	0.00	6752	Outside	4462.00	
Recorder	0.00	8365	Outside	4462.00	
Perforations	30.00			4492.00	
Blank Spacing	1.00			4493.00	32.00 Tool Interval
Packer	4.00			4497.00	
Stubb	1.00			4498.00	
Change Over Sub	1.00			4499.00	
Drill Pipe	31.00			4530.00	
Change Over Sub	1.00			4531.00	
Perforations	16.00			4547.00	
Recorder	0.00	6755	Below	4547.00	
Bullnose	3.00			4550.00	57.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum
4924 SE 84th St
New ton, KS 67114-5827
ATTN: Keaton Jones

10-17-2S Ness, KS
Mishler Maslo Unit 1
Job Ticket: 68455 **DST#: 3**
Test Start: 2022.01.15 @ 01:20:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3300.00 ppm			
Filter Cake: inches			

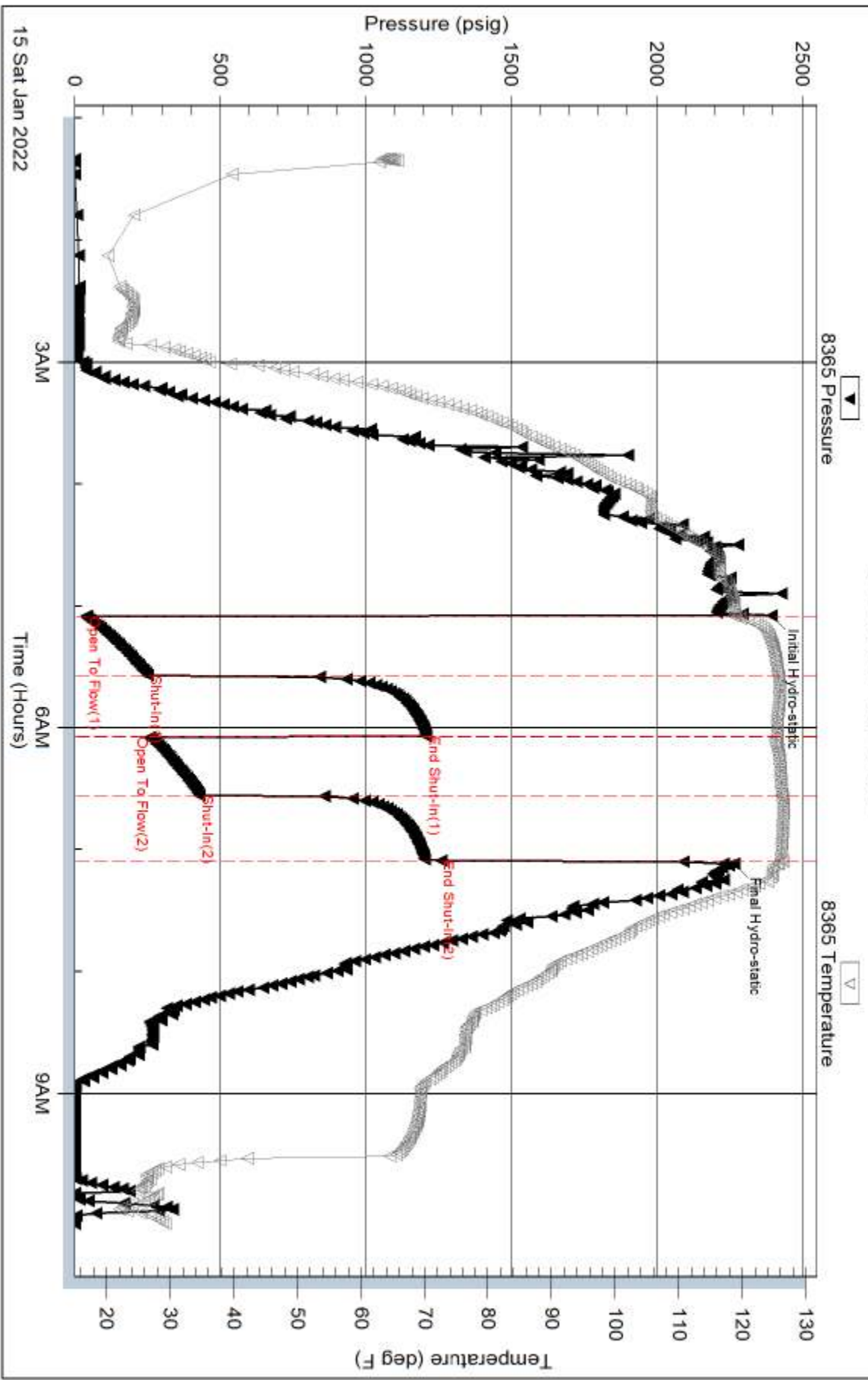
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	5% Gas TR Oil 15%Water 80% Mud	1.739
744.00	5% Gas TR Oil 95% Water	10.436

Total Length: 868.00 ft Total Volume: 12.175 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .5#LCM

Pressure vs. Time

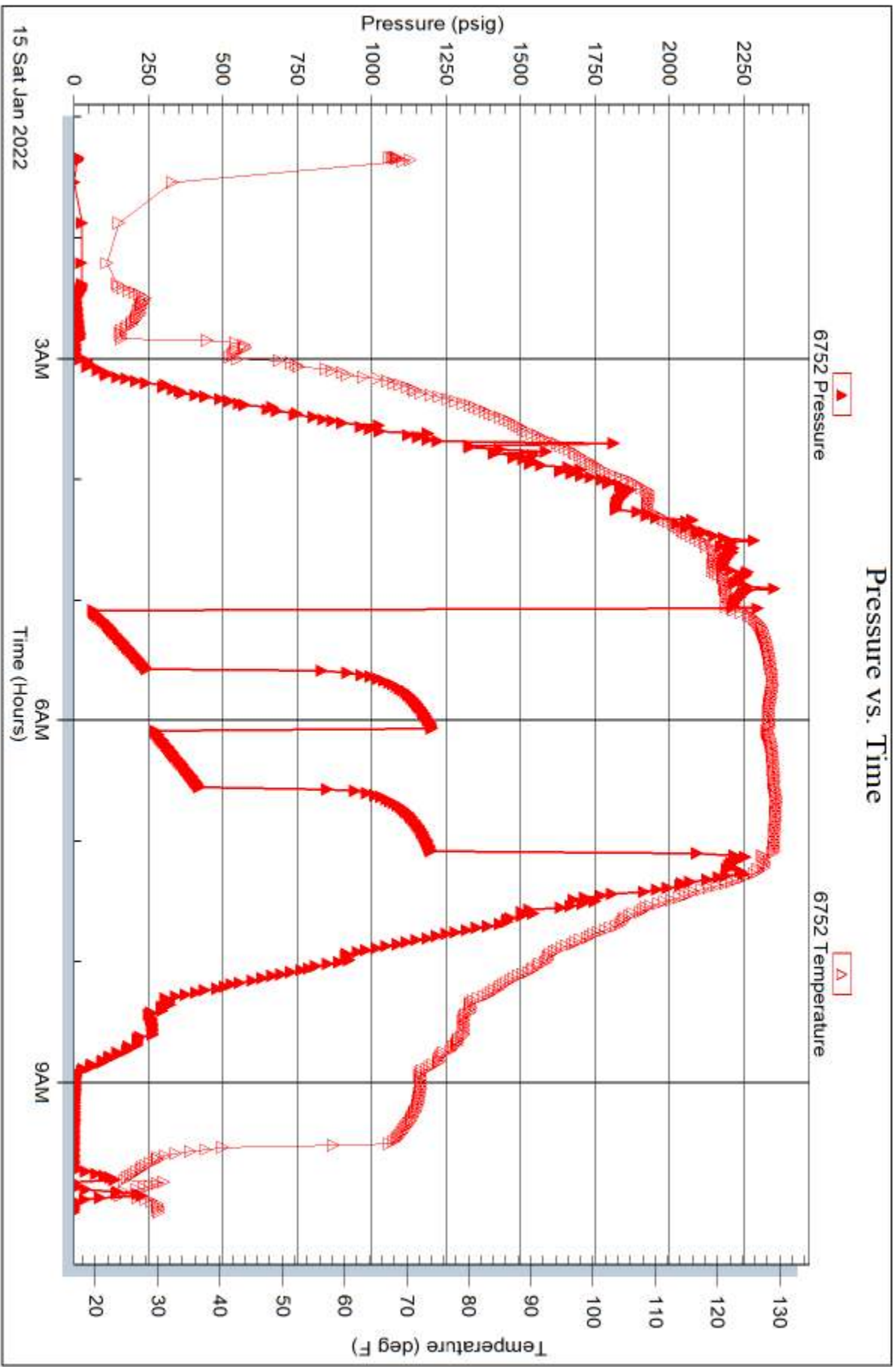


Serial #: 6752

Outside Palomino Petroleum

Wahler Maslo Unit 1

DST Test Number: 3

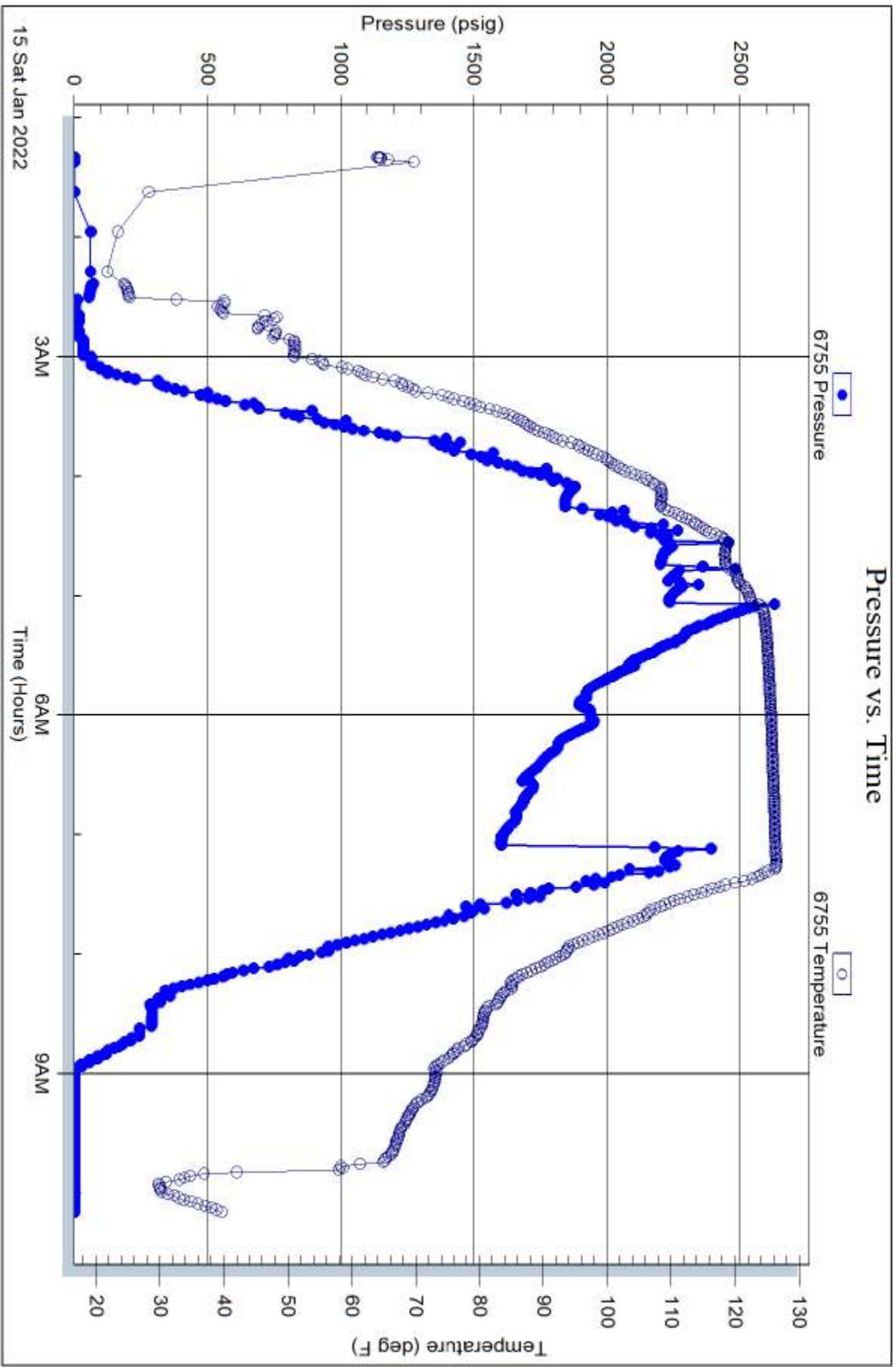


Serial #: 6755

Below (Str Rattenho Petroleum

Wahler Maslo Unit 1

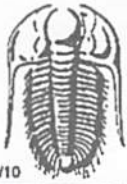
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68455

Printed: 2022.01.17 @ 12:04:48



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 68453

Well Name & No. Mishler Maslow #1 Test No. 1 Date 1/13/27
 Company Palamino Petroleum Elevation 2477 KB 2467 GL
 Address 4424 SE 84th ST Newton, KS 67114-5827
 Co. Rep / Geo. KEATON JAMES Rig DUKE #2
 Location: Sec. 10 Twp 17 Rge. 2S Co. NESS State KS

Interval Tested 4386 - 4467 Zone Tested MISS
 Anchor Length 81 Drill Pipe Run 4379 Mud Wt. 9.1
 Top Packer Depth 4381 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 4386 Wt. Pipe Run 0 WL 5.8
 Total Depth 4467 Chlorides 910 ppm System LCM 1#

Blow Description IF - Fair blow, built to 20"
ISF - No returns
EF - w/sp built to 9"
FIF - No returns

Rec	Feet of	%gas	%oil	%water	%mud
<u>149</u>		<u>50</u>		<u>50</u>	
<u>100 86</u>		<u>15</u>		<u>85</u>	

Rec Total 399 BHT 125 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

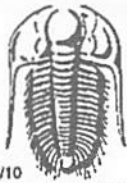
(A) Initial Hydrostatic <u>2264</u>	<input checked="" type="checkbox"/> Test 1450	T-On Location <u>16:15</u>
(B) First Initial Flow <u>64</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>17:45</u>
(C) First Final Flow <u>166</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>20:55</u>
(D) Initial Shut-In <u>996</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>22:55</u>
(E) Second Initial Flow <u>164</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>01:45</u>
(F) Second Final Flow <u>218</u>	<input checked="" type="checkbox"/> Mileage <u>48 Mi RT</u> 100	Comments _____
(G) Final Shut-In <u>586</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2206</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> EM Tool

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

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1875 MP/DST Disc't _____

Approved By _____ Our Representative Kevin Webster
 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. 68454

Well Name & No. Mishler No 50 unit 1 Test No. 2 Date 1/14/22
 Company Palomino Petroleum Elevation 2477 KB 2467 GL
 Address 4924 SE 84th St Newton, KS 67114-5827
 Co. Rep / Geo. Heaton Jones Rig Duke #2
 Location: Sec. 10 Twp 17 Rge. 29 Co. Neos State KS

Interval Tested 4320 - 4386 Zone Tested FORT SCOTT
 Anchor Length 66' Drill Pipe Run 4320 Mud Wt. 9.5
 Top Packer Depth 4320 Drill Collars Run 0 Vis 65
 Bottom Packer Depth 4386 Wt. Pipe Run 0 WL 7.2
 Total Depth 4549 Chlorides 3300 ppm System LCM .5 #

Blow Description IF - strong blow built to 2"
ISF - No returns draws blow filling couldn't turn tool
FF - WSB built to 2"
FST - No returns

Rec	Feet of	%gas	%oil	%water	%mud
124	OCM		1		99

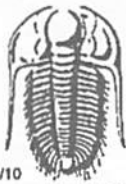
Rec Total 124 BHT 116 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2198 Test 1450 T-On Location 16:00
 (B) First Initial Flow 64 Jars 250 T-Started 17:30
 (C) First Final Flow 83 Safety Joint 75 T-Open 19:28
 (D) Initial Shut-In 1364 Circ Sub _____ T-Pulled 21:00 49
 (E) Second Initial Flow 89 Hourly Standby _____ T-Out 0:00
 (F) Second Final Flow 95 Mileage 80 mi RT 100 Comments _____
 (G) Final Shut-In 853 Sampler _____
 (H) Final Hydrostatic 2163 Straddle 600 EM Tool _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 50 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 30 Day Standby _____ Sub Total 0
 Sub Total 2475 Accessibility _____ Total 2475
 Sub Total 2475 MP/DST Disc't _____

Approved By _____ Our Representative Kevin Webster

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. 68455

Well Name & No. Mishler Masla unit 1 Test No. 3 Date 1/15/22
 Company Palomina Petroleum Elevation 2477 KB 2467 GL
 Address 49249E 84th ST Newton, KS 67114-5827
 Co. Rep / Geo. Heaton Jones Rig Dulke #2
 Location: Sec. 10 Twp 17 Rge. 25 Co. NESS State KS

Interval Tested 4461 - 4493 Zone Tested Lower Miss.
 Anchor Length 32' Drill Pipe Run 4447 Mud Wt. 01.5
 Top Packer Depth 4461 Drill Collars Run 0 Vis 65
 Bottom Packer Depth 4493 Wt. Pipe Run 0 WL 7.2
 Total Depth 4549 Chlorides 3300 ppm System LCM 1.5 #

Blow Description IF - Strong blow bob 6 min
ISI - No Returns
FE - Strong blow bob 7 min
FST - No Returns

Rec	Feet of	%gas	tr%oil	%water	%mud
<u>124</u>		<u>5</u>	<u>tr</u>	<u>15</u>	<u>80</u>
<u>744</u>		<u>5</u>	<u>tr</u>	<u>95</u>	<u>%mud</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 868 BHT 126 Gravity _____ API RW 888 @ 30° F Chlorides _____ ppm

(A) Initial Hydrostatic _____	<input checked="" type="checkbox"/> Test 1450 _____	T-On Location <u>01:00</u>
(B) First Initial Flow _____	<input checked="" type="checkbox"/> Jars 250 _____	T-Started <u>01:20</u>
(C) First Final Flow _____	<input checked="" type="checkbox"/> Safety Joint 75 _____	T-Open <u>05:06</u>
(D) Initial Shut-In _____	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>07:06</u>
(E) Second Initial Flow _____	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow _____	<input checked="" type="checkbox"/> Mileage <u>80 Mi RT</u>	Comments _____
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic _____	<input checked="" type="checkbox"/> Straddle 600 _____	<input type="checkbox"/> EM Tool _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input checked="" type="checkbox"/> Ruined Packer 335
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>70</u>	<input type="checkbox"/> Day Standby _____	Sub Total 335
	<input type="checkbox"/> Accessibility _____	Total 2710
	Sub Total 2375	MP/DST Disc't _____

Approved By _____ Our Representative Kevin Webb STC

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.