

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 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
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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
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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:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	JANTZ 1-22
Doc ID	1706024

Tops

Name	Top	Datum
Andydrite	2471	+733
Heebner	3979	-775
Lansing	4028	-824
Muncie Creek	4196	-992
Stark Shale	4292	-1088
Hushpuckney	4343	-1139
Pawnee	4524	-1320
Johnson	4654	-1450
Mississippian	4770	-1566

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	JANTZ 1-22
Doc ID	1706024

#### Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	4262	4267			
4	4243	4254			
4	4210	4222			250 gal 15% MCA
4	4202	4205			250 gal 15% MCA
4	4192	4195	CIBP Cast Iron Bridge Plug	4241	250 gal 15% MCA, 1 sx cmt on CIBP
4	4124	4127			150 gal 15% MCA
4	4106	4118	CIBP Cast Iron Bridge Plug	4184	250 gal 15% MCA, 500 gal 15% NeFe





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare

**22-16s-35w Wichita, Ks**

202 W Main St  
Salem, IL 62881

**Jantz 1-22**

Job Ticket: 70280

**DST#: 4**

ATTN: Kent Matson

Test Start: 2022.12.20 @ 18:43:38

## GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:05:38

Time Test Ended: 01:15:08

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4444.00 ft (KB) To 4474.00 ft (KB) (TVD)**

Reference Elevations: 3204.00 ft (KB)

Total Depth: 4474.00 ft (KB) (TVD)

3195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 24.81 psig @ 4449.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.12.20

End Date:

2022.12.21

Last Calib.: 2022.12.21

Start Time: 18:43:43

End Time:

01:15:07

Time On Btm: 2022.12.20 @ 21:03:38

Time Off Btm: 2022.12.20 @ 22:54:38

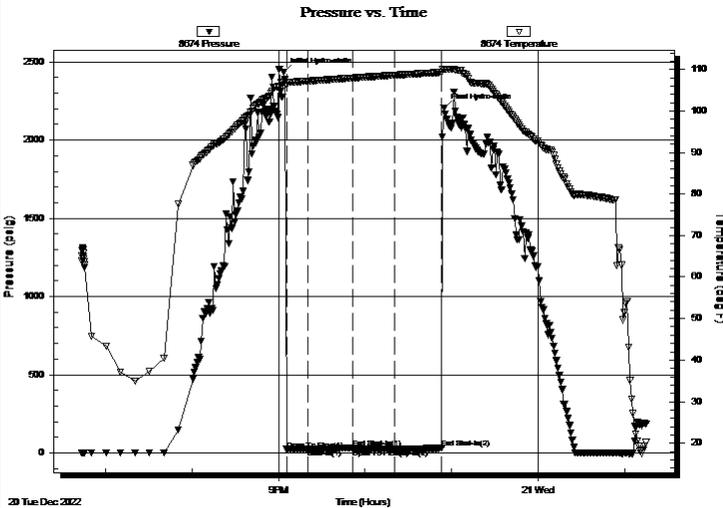
TEST COMMENT: IF: Surface blow built to 1/2.

IS: No return.

FF: No blow.

FS: No return. 15-30-30-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2435.73	106.99	Initial Hydro-static
2	22.75	106.22	Open To Flow (1)
17	24.46	107.18	Shut-In(1)
48	32.94	107.94	End Shut-In(1)
48	22.60	107.95	Open To Flow (2)
77	24.81	108.60	Shut-In(2)
110	30.67	109.29	End Shut-In(2)
111	2207.01	110.08	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare

**22-16s-35w Wichita, Ks**

202 W Main St  
Salem, IL 62881

**Jantz 1-22**

Job Ticket: 70280

**DST#: 4**

ATTN: Kent Matson

Test Start: 2022.12.20 @ 18:43:38

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud 100%m	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

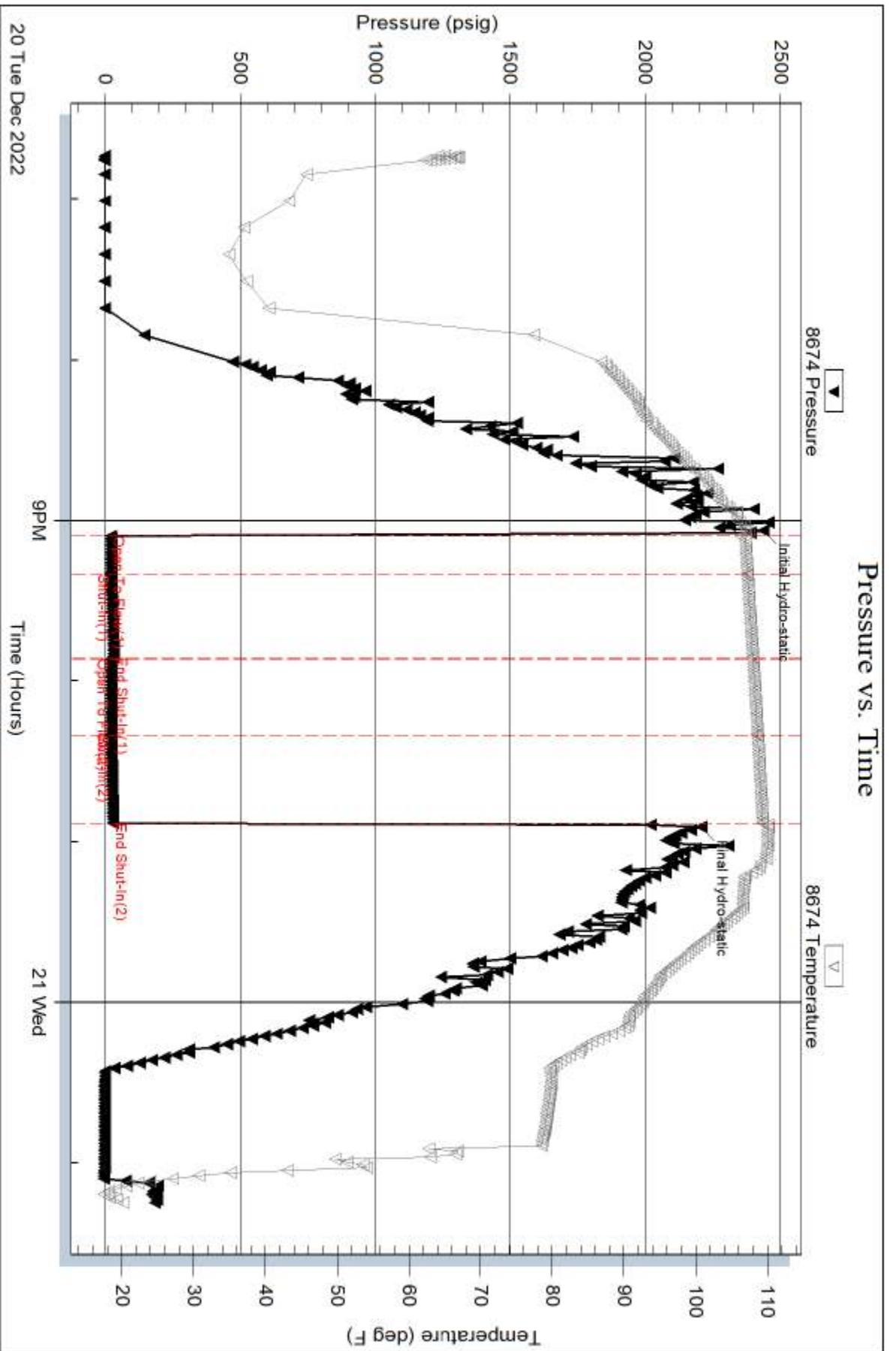
Recovery Comments:

Serial #: 8674

Outside Shakespeare

Jantz 1-22

DST Test Number: 4



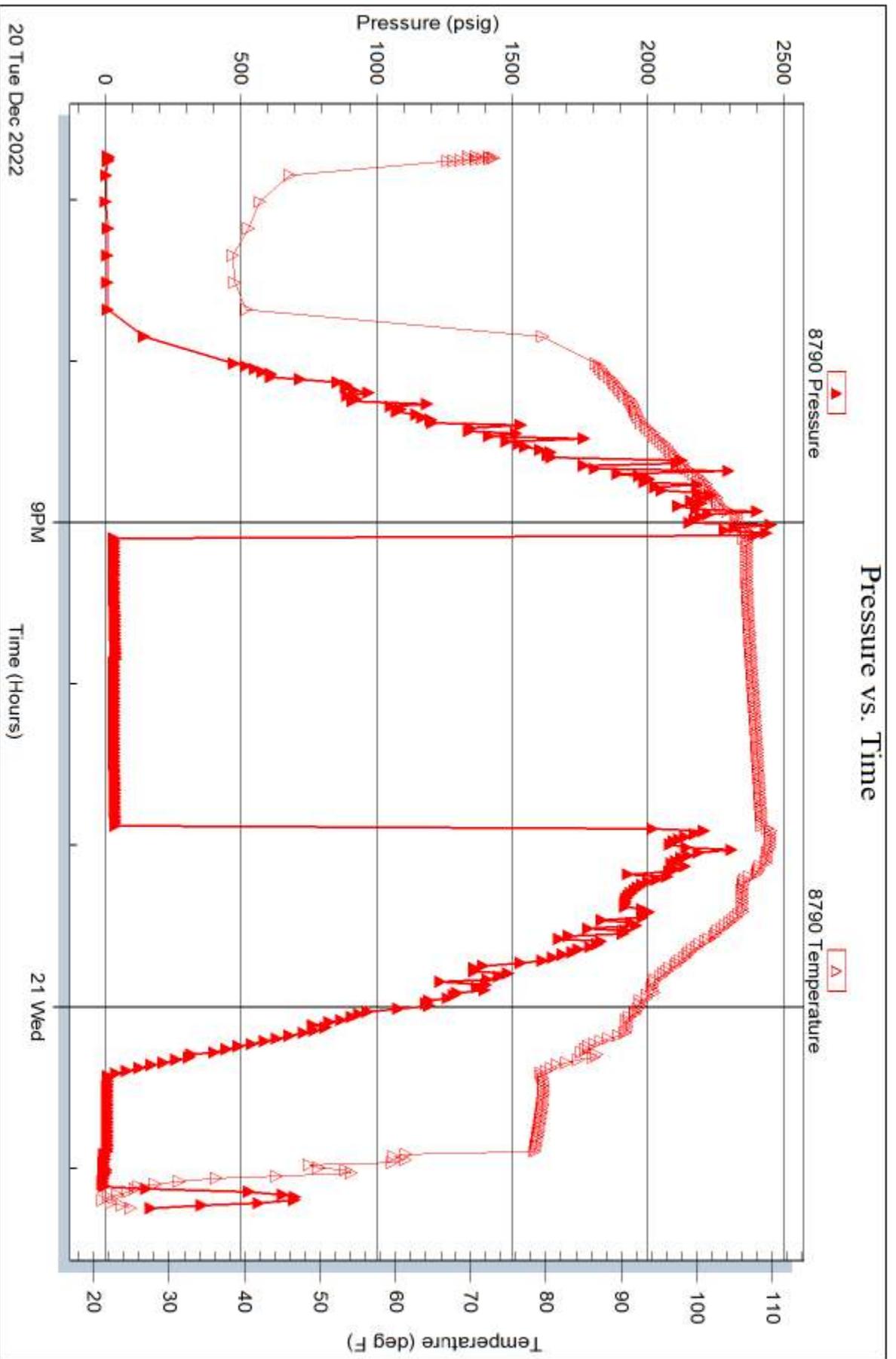
Serial #: 8790

Inside

Shakespeare

Jantz 1-22

DST Test Number: 4



Trioblate Testing, Inc

Ref. No: 70280

Printed: 2022.12.21 @ 07:48:05



Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: JANTZ  
Well Id: #1-22  
Location: 730' FSL, 1835' FEL, SE/4 Sec 22-T16S-R35W, Wichita County, Kansas  
License Number: API: 15-203-20378 Region: Wichita County  
Spud Date: 12/13/2022 Drilling Completed: 12/29/2022  
Surface Coordinates: NAD83  
Lat: 38.6437812; Long: -101.1715763  
Bottom Hole Vertical hole  
Coordinates:  
Ground Elevation (ft): 3193' K.B. Elevation (ft): 3204'  
Logged Interval (ft): 3700' To: RTD Total Depth (ft): 4830'  
Formation: Mississippian at RTD  
Type of Drilling Fluid: Chemical

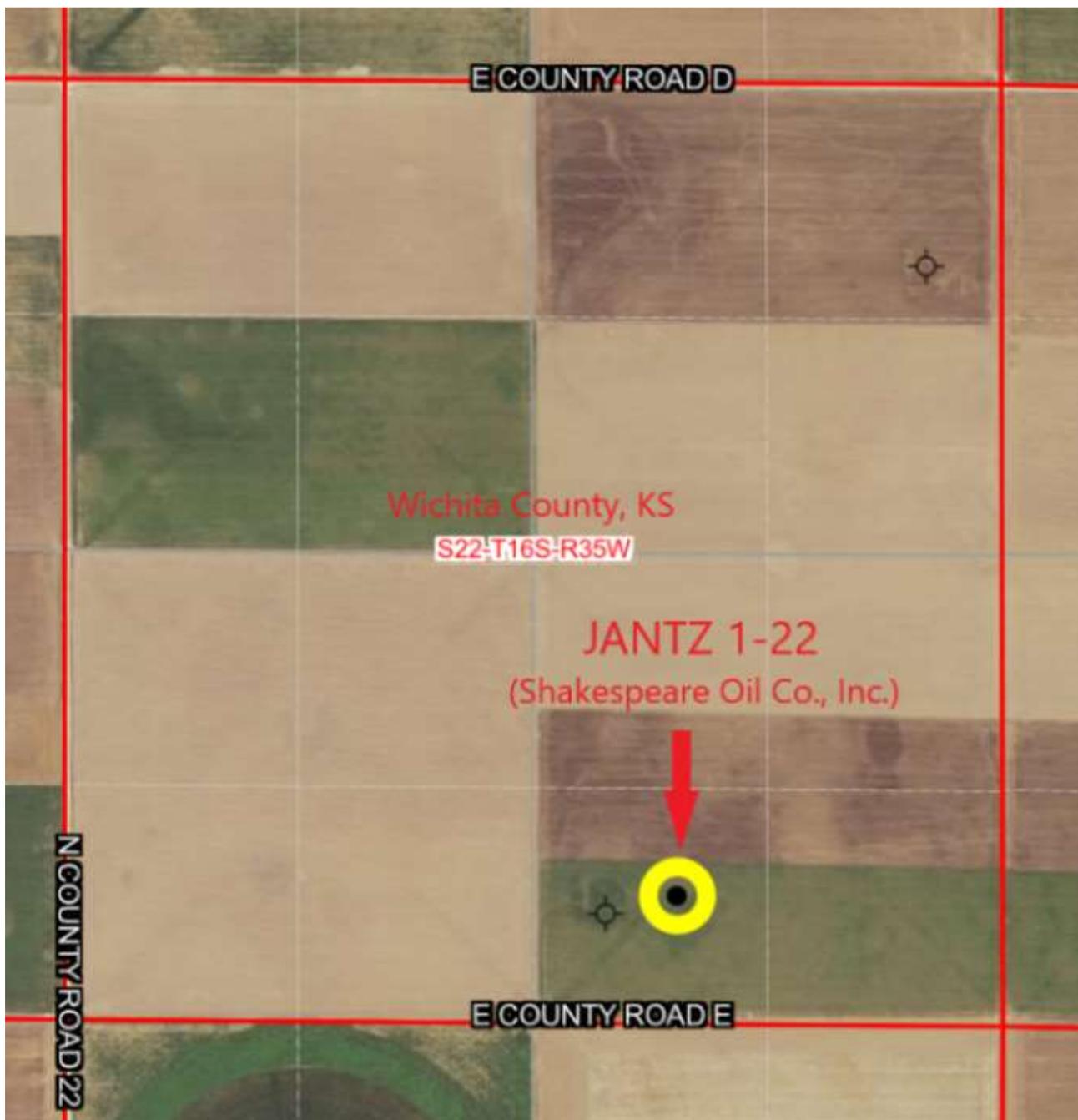
Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

**OPERATOR**

Company: SHAKESPEARE OIL COMPANY, INC.  
Address: 202 West Main Street  
Salem, IL 62881  
618-548-1585

**WELLSITE GEOLOGIST**

Name: Kent R. Matson  
Company: Matson Geological Services, LLC  
Address: 33300 W. 15th Street S.  
Garden Plain, Kansas 67050  
316-644-1975; [kent4m@hotmail.com](mailto:kent4m@hotmail.com)



#### COMMENTS

Shakespeare Oil Company, Inc., Geologist: Toby Eck, 316-305-0572 (cell).

Contractor: Duke Drilling Company, Inc.: Rig #4.

Tool Pusher: Hector Torres, 620-682-3927 (cell).

Surface Casing: 8 5/8" set at 226' (KB) w/160sx cement.

Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation, 5.5" production casing was installed.

Mud by: Mud-Co/Service Mud, Inc.; Tony Maestas, 316-772-6679 (cell).

DST's by: Trilobite Testing, Brandon Turley, 785-650-8399 (cell).

Logs by: ELI Wireline (DI w/GR, CND, Micro), Jeff Luebbers, 785-735-7112 (office).

RTD= 4830'

LTD= 4830'

## FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Heebner Shale	3979'	-775	3975'	-771
Lansing	4022'	-818	4020'	-816
Muncie Creek Shale	4196'	-992	4192'	-988
Stark Shale	4292'	-1088	4288'	-1084
Hushpuckney Shale	4342'	-1138	4338'	-1134
Base of KC	4384'	-1180	4381'	-1177
Marmaton	4440'	-1236	4438'	-1234
Pawnee	4524'	-1320	4521'	-1317
Myrick Station	4550'	-1346	4548'	-1344
Fort Scott	4566'	-1362	4564'	-1360
Cherokee Shale	4592'	-1388	4589'	-1385
Johnson	4654'	-1450	4653	-1449
Morrow	4724'	-1520	4724'	-1520
Mississippian	4770'	-1566	4767'	-1563
RTD	4830'	-1626		
LTD			4830'	-1626

## ROCK TYPES

### LITHOLOGY

	Anhy
	Cht
	Coal
	Congl
	Dol
	Gyp
	Lmst
	Salt
	Shale
	Shcol
	Shgy
	Sltst
	Ss
	Carb sh
	Dol
	Dtd
	Gry sh
	Sandy lms
	Shale
	Sltstn
	Shlyslts

	Sitysh
	Sdy dolo
	Silty dolo
	Shy dolo
	Shaly ls

### FOSSIL

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

### MINERAL

	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom
	Fuss
	Oomold
	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlit
	Dol
	Feldspar

	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Chlorite
	Dol
	Sand
	Sly

Rate of Penetration (ROP) ROP (min/ft)	DEPTH	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
	<p>34</p> <p>3500</p> <p>3550</p> <p>3600</p>				<p><b>Morning Report Depth/Activity (7:00 am)</b>  12/13/2022: MIRU, spud @7pm.  12/14: Set surface casing @226' KB.  12/15: Drilling @1930'.  12/16: Drilling @3274'.  12/17: Short trip for DST #1 @4040'.  12/18: Drilling @4180'.  12/19: CTCH after DST #2 @4280'.  12/20: Working on mud pump @4401'.  12/21-12/26: After DST #4 @4474', Shut down for bad weather and Christmas break.  12/27: Starting up rig after Christmas break. Resumed drilling @approx 1pm.  12/28: Drilling @4640'.  12/29: Electric logging @4830'; reached TD @12:38am.</p> <p><b>Anhydrite:</b>  Drill Time (ROP) Top @2474' (+730), Base @2493' (+711).  E-Log Top @2471' (+733), Base @2490' (+714).</p> <p><b>ROP Data begins @3500'</b> on 12/16/2022. Recorded from drillers geolograph record, and geologist's auto-reader switch on geolograph.</p>	<p>Mud-Co/Service Mud Inc. Check #1 @0' 12/13/22, predrilling instructions.</p> <p>Mud-Co/Service Mud Inc. Check #2 @226' 12/14/22 07:00am Cont w/predrilling instructions.</p> <p>Mud-Co/Service Mud Inc. Check #3 @2120' 12/15/22 09:10am  wt vis pH chl  9.6 32 7 61000  Filt LCM  n/c 1</p> <p><b>Displaced drilling mud @3491'-3515'.</b></p> <p>Mud-Co/Service Mud Inc. Check #4 @3510' 12/16/22 12:45pm  wt vis pH chl  8.6 56 11.5 2500  Filt LCM  6.4 2</p> <p>Mud-Co/Service Mud Inc. Check #5 @4040' 12/17/22 12:50pm  wt vis pH chl  9.1 51 10.5 3000  Filt LCM  7.2 2</p> <p>Mud-Co/Service Mud Inc. Check #6 @4214' 12/18/22 09:00am  wt vis pH chl  9.3 50 10.5 3500  Filt LCM  8.0 2</p> <p>Mud-Co/Service Mud Inc. Check #7 @4372' 12/19/22 01:30pm  wt vis pH chl  9.4 56 10.0 4100  Filt LCM  8.8 2</p> <p>Mud-Co/Service Mud Inc. Check #8 @4459' 12/20/22 01:10pm  wt vis pH chl  9.5 54 10.0 4400  Filt LCM  8.8 2</p> <p><b>Shut down 12/21 - 12/26.</b></p> <p>Mud-Co/Service Mud Inc. Check #9 @4476' 12/27/22 01:00pm  wt vis pH chl  8.6 63 11.0 3000  Filt LCM  6.4 5</p> <p>Mud-Co/Service Mud Inc. Check #10 @4656' 12/28/22 09:45am  wt vis pH chl  9.3 60 10.5 9200  Filt LCM  11.2 3</p> <p>Mud-Co/Service Mud Inc. Check #11 @4830' 12/29/22 09:00am  wt vis pH chl  9.4 60 10.0 9500  Filt LCM</p>

Geologist on location @ 3659', 12/16/2022.

Formation tops and lithologies have been adjusted to correlate to the electric log.

Oil Shows indicator: Left Block 0-10 tray pcs w/show, Middle Block 10-20 tray pcs w/show, Right Block 20+ tray pcs w/show.

NOTE: RED TEXT INDICATES THE PRESENCE OF OIL.

Drill cutting samples at 20' intervals start at 3700' -3920', (using PDC bit).

LS: cm/lt bm/min lt gry, vf-m xtal, silty/sndy/arg, chalky, foss frags, no vis por, no odor, ns.

LS: as above, smpl vry chalky, no odor, ns.

SH: lt-dk gry, some vry silty, carb, soft-firm.

SH: lt-dk gry/lt-m bm, some vry silty/sndy, carb, soft-firm.

LS: cm/lt gry-bm/lt gry, vf-m xtal, vry silty/sndy, smpl vry chalky, foss frags, no vis por, no odor, ns.

SH: lt-dk gry/bm/red-bm, some vry silty/sndy, carb, soft-firm; some SS: lt gry/lt red-bm, vf-m, sr-wr, slit arg, friable, no odor, ns.

LS: cm/lt-m bm, vf-m xtal, some vry silty/sndy, chalky, foss frags/some ool w/red-bm matrix, no vis por, no odor, ns.

SH: lt-dk gry, some silty/sndy, carb, some carb ool, soft-firm. Min SS: red-bm, vf-m, sr-wr, arg, friable, no odor, ns.

LS: cm/lt gry-bm, vf-m xtal, chalky, vry silty/sndy/arg, foss frags, no vis por, no odor, ns.

LS: cm/lt bm/lt gry, vf-m xtal, some vry silty/sndy, chalky, some cmn dolo, foss frags, no vis por, no odor, ns.

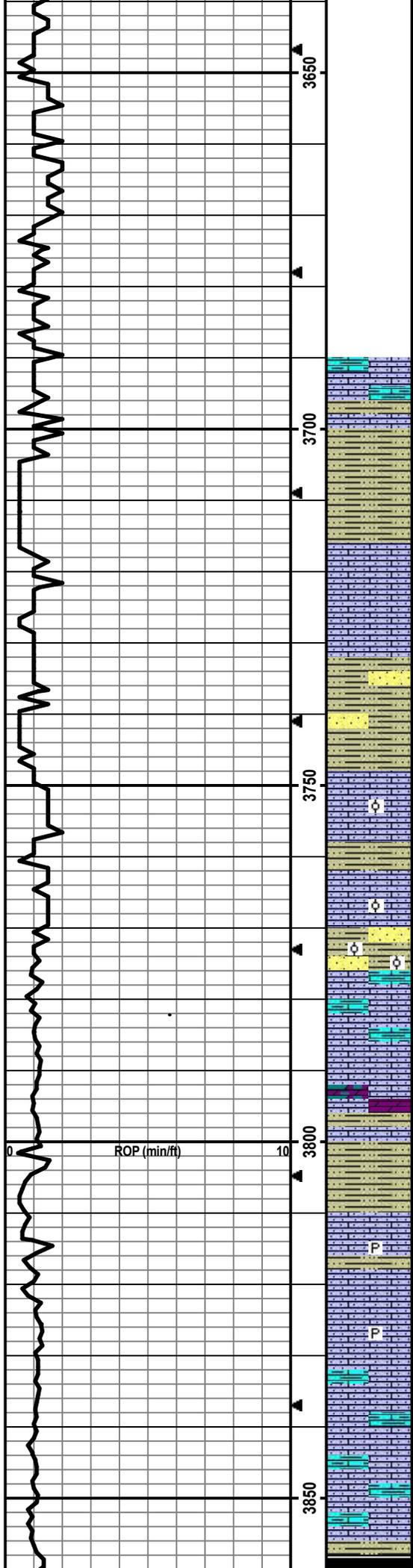
SH: lt-m gry/lt bm, some vry silty/sndy, carb, soft-firm.

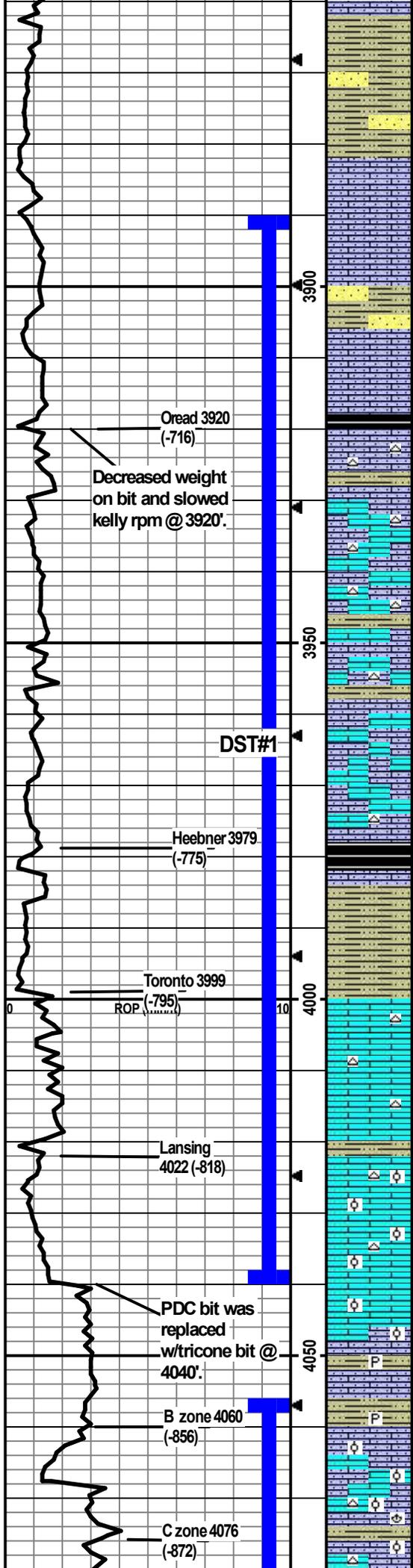
LS: cm/lt bm, vf-m xtal, vry silty/sndy, chalky, pyritic, foss frags, no vis por, no odor, ns.

LS: wht/cm/lt bm/lt gry, vf-m xtal, vry silty/sndy/arg, smpl vry chalky, foss frags, no vis por, no odor, ns.

LS: cm/lt-m bm/gry, vf-m xtal, vry silty/sndy/arg, chalky, foss frags, no vis por, no odor, ns.

Survey Record  
Deg @ Ft  
0.50 @ 226'  
0.50 @ 2088'  
0.75 @ 4040'  
0.50 @ 4830'





SH: lt-dk gry/med bm, some vry silty/sndy, carb, soft-firm.

SH: lt-dk gry/blk/dk bm, some vry silty, carb, soft-firm. Some SS: lt gry, vf-f, sr-wr, min arg, friable, no odor, ns.

LS: cm/lt gry/lt bm, vf-m xtal, chalky, some vry silty/sndy, foss frags/grainy, some vf-f in-xtal por, no odor, ns.

LS: cm/lt bm/min lt gry, vf-m, some silty/sndy, some vry chalky, foss frags/grainy, 11 pcs w/sfo w/vf-f in-xtal por; brit yel fluor, gd odor, sfo.

SH: lt-dk gry/dk bm, vry silty/sndy, carb, soft-firm. Some SS, lt gry, vf-f, sr-wr, carb, friable, no odor, ns.

LS: cm/lt bm/lt gry, vf-m xtal, vry silty/sndy, chalky, wht chert, foss frags, 13 pcs w/sfo w/vf-f in-xtal por, dul-brite yel fluor, slit odor, sfo.

LS: cm/lt bm, vf-m, silty/sndy, chalky, wht chert, foss frags, 22 pcs w/sfo w/vf-m in-xtal por, dul yel fluor, gd odor, sfo.

LS: cm/lt bm, vf-crs xtal, some silty/sndy, chalky, wht chert, foss frags, 29 pcs w/sfo w/mostly vf-m in-xtal por w/some crs por, dul yel fluor, gd odor, sfo.

LS: wht/cm/lt bm/lt-m gry, vf-m xtal w/some crs, some silty/sndy, smpl vry chalky, min wht/cm chert, foss frags, 26 pcs w/sfo w/f-crs/vug in-xtal por, dul yel fluor, gd odor, sfo.

SH: lt-dk gry/dk bm/blk/gry-green, some silty, slit carb, soft-firm.

LS: cm/lt-m bm, vf-m xtal, some silty/sndy, smpl vry chalky, min wht/cm chert, foss frags, 11 pcs w/sfo w/vf-crs/vug in-xtal por, gd odor, sfo.

LS: cm/lt bm/lt-m gry, vf-m xtal, smpl vry chalky, some silty/sndy, foss frags, 9 pcs w/sfo w/ppt-crs in-xtal por, dul yel fluor, slit odor, sfo.

LS: cm/lt-m bm/lt gry, vf-m xtal, smpl vry chalky, some silty/sndy, min cm chert, foss frags, 6 pcs w/sfo w/vf-m in-xtal por, dul yel fluor, slit odor, sfo.

SH: m-dk gry/blk/red-bm, some silty, carb, firm, soft-firm, fissile.

SH: lt-dk gry/blk/dk bm, some vry silty, carb, soft-firm.

LS: wht/cm/lt bm/lt-m gry, micro-m xtal, smpl vry chalky, wht chert, foss frags, approx 5-10% of smpl w/sfo, min blk tar, ppt-crs in-xtal por, dul-brite yel fluor, slit odor, sfo.

LS: wht/cm/lt bm, micro-m xtal, smpl vry chalky, min wht chert, foss frags, 27 pcs w/sfo w/vf-m in-xtal por, dul yel fluor, slit odor, sfo.

LS: cm/lt bm, micro-crs xtal, min chalky, min cm chert, foss frags/abund ool, approx 10-15% of smpl w/sfo, vf-crs/vug in-xtal/in-ool por, stg odor, gd sfo.

LS: wht/cm/lt bm/min gry, micro-m xtal, chalky, some silty/sndy, foss frags/ool, 22 pcs w/sfo, f-crs/vug in-xtal/in-ool por, dul yel fluor, gd odor, sfo.

SH: lt-dk gry/blk/red-bm, some vry silty, some pyritic, carb, soft-firm. Some LS show assume from above.

LS: wht/cm/some lt gry, micro-m xtal, min chalk, some silty/sndy, frags/abund ool, approx 25% of smpl w/sfo, f-crs/vug in-xtal/in-ool por, dul yel fluor, stg odor, gd sfo.

LS: cm/lt bm, micro-m xtal, some sndy, wht chert, foss frags/brac/ool, approx 5-10% of smpl w/sfo, min tk tar, dul yel fluor, f-crs/vug in-xtal/in-ool por, stg odor, gd sfo.

Drill cutting samples at 10' intervals start at 3920'.

Pipe strap TOH for DST #1 @ 4040' was 0.73' long to the board.

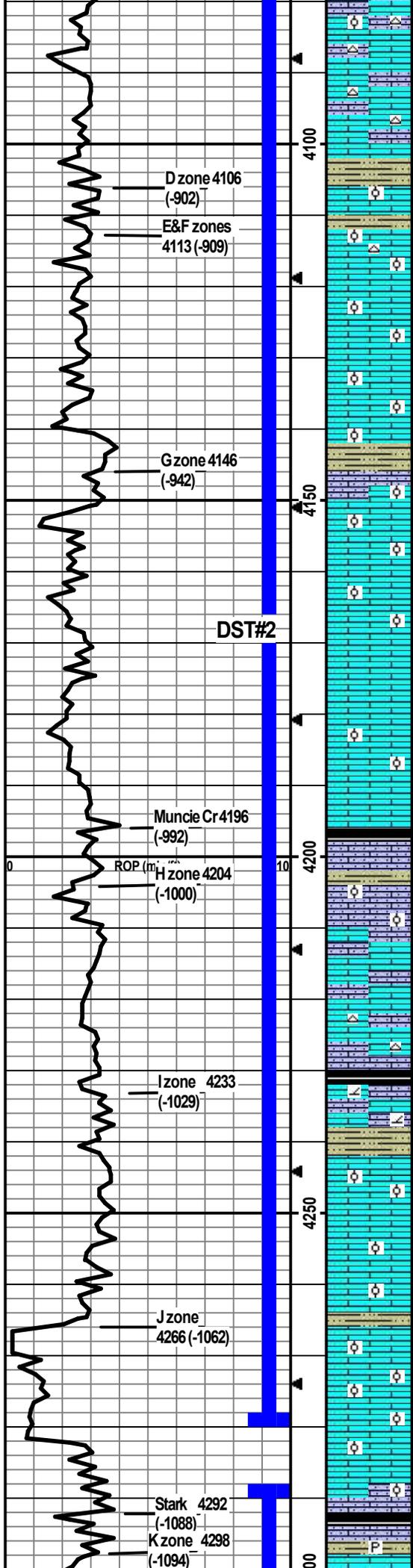
DST1) 3890-4040 Oread, Toronto, Lansing A-zone

10/30/15/30  
1st BOB blow in 3min; No BB.  
2nd BOB blow in 4min; No BB.  
IFP 67-178#  
ISIP 1099#  
FFP 195-338#  
FSIP 1080#  
HP 1984-1878#  
Recvd: 124' GOCMM (20%G, 10%O, 20%W, 50%M), 186' GOCMM (5%G, 5%O, 30%M, 60%W), 186' OCMM (5%O, 5%W, 90%M), 164' Mud (100% M).

CFS @ 4040'  
Stop/30'/60"

After DST #1 @ 4040', the PDC bit was replaced with a tricone bit.

CFS @ 4072'  
Stop/30'/60"



LS: cm/lt bm, micro-f xtal, some sndy, wht chert, foss frags/ool, approx 5% of smpl w/sfo, dul yel fluor, stg odor, gd sfo.

LS: cm/lt bm, micro-f xtal, min chalky, some sndy, wht foss chert, 22 pcs w/sfo, vf-m in-xtal por, dul yel fluor, gd odor, sfo.

LS: cm/lt-m bm, micro-m xtal, some chalky, min foss/ool frags, 31 pcs w/sfo, vf-m in-xtal por, gd odor, sfo.

LS: cm/lt bm/min lt gry, micro-m xtal, some chalky, min wht chert, foss frags/ool, approx 5-10% of smpl w/sfo, vf-m in-xtal/in-ool por, dul yel fluor, gd odor, sfo.

LS: cm/lt-m bm, micro-m xtal, some chalky, min foss frags/ool, 38 pcs w/sfo, f-m w/some crs in-xtal/in-ool por, gd odor, gd sfo.

LS: wht/cm/lt bm, micro-m, some chalky, foss frags/ool, 40 pcs w/sfo, f-crs/vug in-xtal/in-ool por, dul fluor, gd odor, gd sfo.

LS: wht/cm/lt-m bm, micro-m xtal, some silty/sndy, some chalky, foss frags/ool, min crs oo-castic por, gd amt of show and odor assume from above.

LS: cm/lt-m bm/min lt gry, micro-m xtal, some chalky, foss frags/ool, some vf-m in-xtal por w/min m-crs oo-castic por, some show and odor assume from EF.

LS: wht/cm/lt-m bm/min lt gry, micro-m xtal, some chalky, foss frags/ool, vf-m in-xtal por, cont slit odor and few pcs of show from above.

LS: wht/cm/lt bm/min lt gry, micro-f xtal, some chalky, min foss frags, min vf-f in-xtal por, cont slit odor few pcs show from above.

LS: wht/cm/lt bm/lt gry, micro-m xtal w/some crs 2ndry xtals, some chalky, foss frags/ool, min vf-m in-xtal por, cont slit odor w/few pcs show from above.

LS: cm/lt-m bm/lt gry, micro-m xtal, some chalky, min foss frags, no vis por, cont slit odor w/fewer pcs show from above.

SH: med gry-green/blk, some silty, carb, soft-firm.

LS: wht/cm/lt-m bm/lt gry/gry mottling, micro-m xtal, silty/sndy, min foss frags/in ool, 20 pcs w/sfo, mostly ppt-m w/some crs in-xtal-in-ool por, gd odor, sfo.

LS: cm/lt-m bm/lt gry, micro-m xtal, some silty/larg, some chalky, foss frags, 26 pcs w/sfo, ppt-m in-xtal por, dul yel fluor, gd odor, sfo.

LS: cm/lt bm/lt gry, micro-m xtal, chalky, some silty/sndy, wht chert, min foss frags, 26 pcs w/sfo, vf-crs in-xtal por, dul yel fluor, gd odor, gd sfo.

SH: lt-dk gry/blk/dk brn, some vry silty, carb, soft-firm.

LS: cm/lt-m bm/lt-m gry, micro-m xtal, chalky, some silty, some dolomitic, foss frags, 13 pcs w/sfo, ppt-m in-xtal por, no fluor, gd odor, sfo.

LS: wht/cm/lt-m bm/lt gry, micro-m xtal, some chalky, foss frags/ool, 21 pcs w/sfo, vf-m in-xtal/in-ool por, dul yel fluor, gd odor, sfo.

LS: cm/lt-m bm/lt-m gry, micro-m xtal, some chalky, foss frags/min ool, 23 pcs w/sfo, ppt-m in-xtal/in-ool por, no-dul yel fluor, gd odor, sfo.

LS: as above, 13 pcs w/sfo, some crs oo-castic por w/sfo, gd odor, sfo

LS: cm/lt bm, micro-m xtal, min chalky, foss frags/abund ool, approx 10-15% of smpl w/sfo, vf-m in-xtal por, crs-vug oo-castic por, no fluor, gd odor, gd sfo.

LS: cm/lt gry, micro-m xtal, some silty/sndy, some chalky, foss frags/ool, approx 5-10% of smpl w/sfo, f-m in-xtal/crs-vug oo-castic por, no fluor, gd odor, gd sfo.

SH: lt-dk gry/dk bm/blk, some vry silty, some pyritic, carb, soft-firm.

**DST2) 4056-4280**  
**Lansing B thru**  
**J-zones**

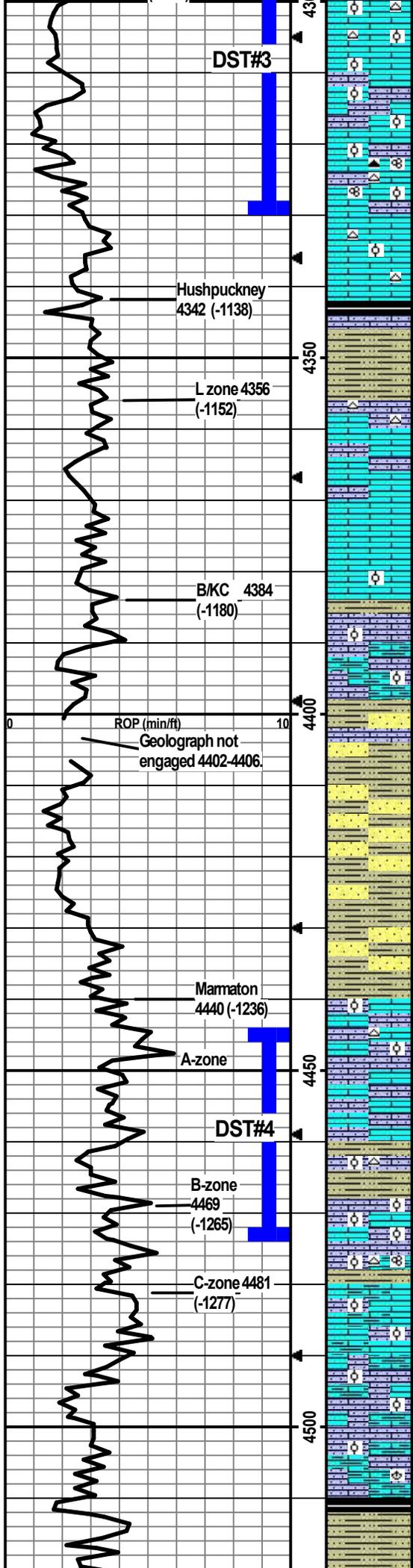
10/20/30/40  
1st BOB blow in 1min; No BB.  
2nd BOB blow in 1min; No BB.  
IFP 435-674#  
ISIP 1103#  
FFP 745-1050#  
FSIP 1108#  
HP 2051-2053#  
Recvd: 248' OCM (10%O, 90%M),  
558' OCMM (10%O, 20%W,  
70%M), 620' GOCMM (10%G,  
10%O, 40%W, 40%M), 558'  
OCMM (10%O, 20%M, 70%W),  
248' Mud (100% M).

CFS @ 4221'  
Stop/30"/60"

CFS @ 4280'  
Stop/30"/60"

**DST3) 4288-4330**  
**Lansing K-zone**

10/20/20/30  
1st BOB blow at 1min; No BB.  
2nd BOB blow at 1min; No BB.  
IFP 311-550#



LS: cm/lt-dk bm/lt gry, micro-m xtal w/crs 2ndry xtais, some chalky, min wht/cm chert, foss frags/ool, 28 pcs w/sfo, f-m in-xtal por/crs oo-castic por, yel fluor, gd odor, gd sfo.

LS: cm/lt-m bm/lt gry, micro-m xtal, some silty/sndy, smpl vry chalky, foss frags/ool, 21 pcs w/sfo w/f-crs in-xtal/crs oo-castic por, dul yel fluor, gd odor, sfo.

LS: cm/lt-m bm/lt gry, micro-m xtal, some silty, min cm/dk gry chert, smpl vry chalky, foss frags/fusin/ool, 22 pcs w/sfo, f-crs in-xtal por, crs oo-castic por, dul yel fluor, slt odor, sfo.

LS: cm/lt bm/min lt gry, micro-m xtal, some chalky, wht/cm/lt bm chert, min foss frags/ool, no vis por, coupl pcs of show w/slt odor from above, ns.

SH: lt-dk gry/blk/red-bm, some silty, carb, soft-firm.

SH: as above w/lt gry-green.

LS: cm/lt-m bm, micro-m xtal, some silty, chalky, wht/gry/dk bm foss chert, foss frags/min ool, no vis por, slt odor from above, ns.

LS: wht/cm/lt-m bm/lt gry, micro-m xtal w/some crs, some silty, smpl vry chalky, foss frags/some grainy, min ppt-f in-xtal por, no odor, ns.

LS: wht/cm/lt-m bm/lt gry/gry mottling, micro-m xtal, some chalky, foss frags, no vis por, no odor, ns.

LS: cm/lt gry-bm/lt-m bm, micro-m xtal, some silty/sndy, some chalky, foss frags/min dense ool, no vis por, no odor, ns.

LS: cm/lt-m bm/lt gry/gry mottling, vf-m xtal, some vry silty/arg, chalky, foss frags/dense ool, no vis por, no odor, ns.

SH: lt-dk gry/blk/dk bm, silty, carb, soft-firm. Min SS: lt-m gry, pred qtz, arg, vf-f, sr-wr, friable, no odor, ns.

SH/SS: as above w/increase in SS, no odor, ns.

SH: lt-dk gry/blk/min dk bm, some vry silty, carb, soft-firm. Decrease in SS: lt gry, vf-f, sr-wr, pred qtz, arg, friable, no odor, ns.

SH: lt-dk gry/blk/dk bm/red-bm/lt gry-green, some silty, carb, soft-firm, no odor, ns. SS: lt gry, vf-f, sr-wr, pred qtz, some arg, friable, no odor, ns.

LS: cm/lt-m bm, micro-m xtal, some chalky, some silty/sndy, min wht/lt gry chert, foss frags/min dense ool, no vis por, no odor, ns.

LS: cm/lt-m bm/lt gry-bm, micro-m xtal, chalky, some silty/sndy, foss frags, 31 pcs w/sfo, some staining and sml droplets w/fo on break, ppt-f in-xtal, no fluor, no odor, sfo.

LS: cm/lt-m bm/some gry-bm, micro-m xtal, chalky, silty/sndy, min lt gry/bm chert, foss frags/ool, 4 pcs w/sfo w/vf-m in-xtal/in-ool por, dul yel fluor, slt odor, sfo.

SH: lt-dk gry/blk/dk bm, some vry silty, carb, soft-firm.

LS: cm/lt-m bm/lt gry, micro-m xtal, some silty/sndy, some chalky, foss frags/ool, 7 pcs w/ppt-m in-xtal por w/crs oo-castic por, dul yel fluor, slt odor, sfo.

LS: wht/cm/lt bm/lt gry, micro-m xtal, some silty/arg, min chalky, min wht chert, min foss frags/fusin/ool, no vis por, no odor, ns.

LS: cm/lt-m bm, micro-m xtal, some silty/sndy/arg, min chalky, foss frags/ool, 3 pcs w/sfo, 1 w/ppt-f in-xtal por, 2 w/ool-castic por, no fluor, no odor, slt sfo.

LS: cm/lt gry/lt-m bm, micro-m xtal, some vry silty/sndy/arg, chalky, foss frags/ool, no vis por, no odor, ns.

LS: cm/lt bm/lt-m gry-bm, micro-m xtal, some vry silty/sndy/arg, chalky, foss frags/brac/ool, no vis por, no odor, ns.

SH: lt-dk gry/blk/bm/red-bm/min mustard yel, some vry silty/sndy, carb, soft-firm. Few LS pcs w/show assume from above.

ISIP 1207#  
FFP 607-927#  
FSIP 1203#  
HP 2252-2147#  
Recvd: 236' WCM w/oil spots (40%W, 60%M), 310' MCW (10%M, 90%W), 1426' Water (100%W).  
NOTE: detected 6 PPM of H2S, dropped the bar.

CFS @ 4330'  
Stop/30'/60"

CFS @ 4380'  
Stop/30'/60"

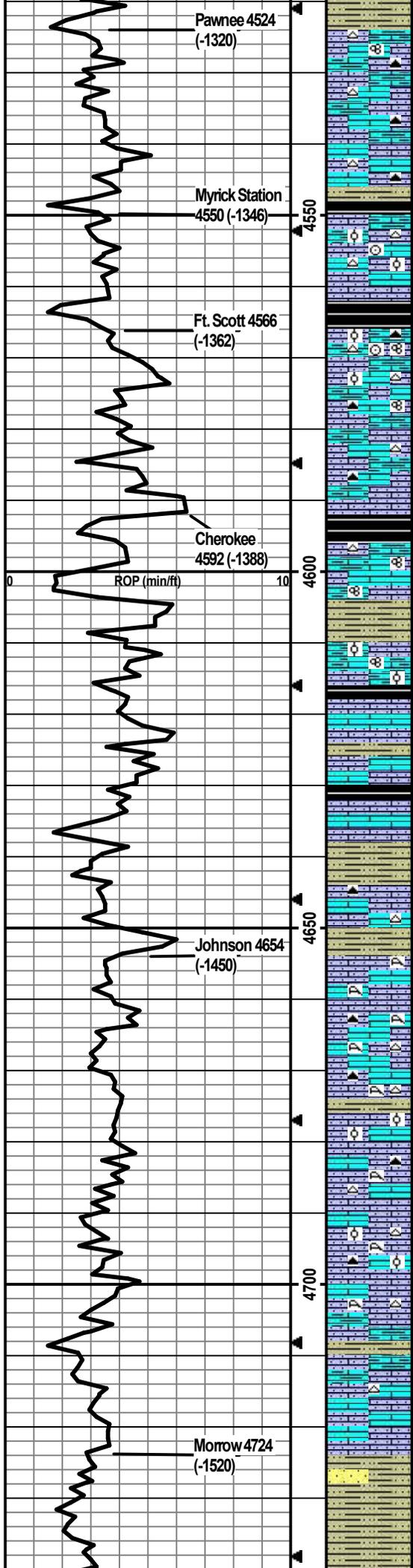
**DST4) 4444-4474**  
**Marmaton A & B-zones**  
15/30/30/30  
1st) Surface blow built to 1/2"; No BB.  
2nd) No blow; No BB.  
IFP 23-24#  
ISIP 33#  
FFP 23-25#  
FSIP 31#  
HP 2436-2207#  
Recvd: 5' Mud (100%M).

CFS @ 4459'  
Stop/30'/60"

CFS @ 4474'  
Stop/30'/60"

**After DST #4 @ 4474',**  
**shut down for bad weather and Christmas break 12/21-12/26. Resumed drilling @ approx 1pm 12/27.**

CFS @ 4500'  
Stop/30'/60"



LS: cm/lt-m bm/min lt gry, micro-m xtal, chalky, some silty/sndy/arg, cm/bm foss chert, foss frags/fusln, 2 pcs w/staining/fo on break, ppt-vf in-xtal por, dul yel fluor, no odor, slit sfo.

LS: cm/lt-m bm/lt-m gry-bm, some vry silty/sndy/arg, some chalky, wht/cm/lt gry/bm chert, foss frags, no vis por, no odor, ns.

CFS @ 4540'  
Stop/30"/60"

LS: cm/lt-dk bm, micro-m xtal, some silty, min chalky, wht/cm/bm chert, foss frags, no vis por, no odor, ns.  
SH: m-dk gry/blk, some silty, slit carb, firm.

LS: cm/lt-m bm/gry mottling, micro-m xtal, some silty/sndy/arg, chalky, wht/cm/lt bm/lt gry chert/some foss, foss frags/crin/ool, no vis por, no odor, ns.

CFS @ 4560'  
Stop/30"/60"

SH: m-dk gry/blk, some silty, slit carb, soft-firm.  
LS: cm/lt-m bm, micro-m xtal, some silty/sndy/arg, min chalky, wht/lt-dk bm foss chert, foss frags/fusln/crin/ool, no vis por, no odor, ns.

LS: cm/lt-m bm/lt-m gry, micro-m xtal, some silty/sndy/arg, chalky, lesser amt wht/cm/bm foss chert, foss frags/fusln/min ool, no vis por, no odor, ns.

LS: cm/lt-m bm/lt-m gry, micro-m xtal, some silty/sndy/arg, chalky, wht/lt gry/lt-m bm foss chert, foss frags, no vis por, no odor, ns.

CFS @ 4590'  
Stop/30"/60"

SH: dk gry/blk/some bm mottling, silty, slit carb, soft-firm, fissile.  
LS: cm/lt-m bm, micro-m xtal, some chalky, some silty/sndy/arg, wht/lt bm foss chert, foss frags/fusln, no vis por, no odor, ns.

LS: cm/lt-m bm/lt-m gry-bm, micro-m xtal, min chalky, some silty/arg, foss frags/fusln, no vis por, no odor, ns.  
SH: lt-dk gry/blk/red-bm/some bm mottling, silty, slit carb, soft-firm.

LS: cm/lt-dk bm, micro-m xtal, some vry silty/sndy/arg, chalky, foss frags/fusln/ool, no vis por, no odor, ns.  
SH: lt-dk gry/blk/dk bm mottling, silty, slit carb, soft-firm.

CFS @ 4620'  
Stop/30"/60"

LS: cm/lt-m bm, micro-m xtal, min chalky, some silty, foss frags, no vis por, no odor, ns.  
SH: lt-dk gry/blk/dk bm, some silty, slit carb, soft-firm.

LS: cm/lt-m bm/lt gry, micro-m xtal, some silty/sndy, min chalky, foss frags, no vis por, no odor, ns.  
SH: lt-dk gry/dk bm/blk, some vry silty, slit carb, soft-firm.

LS: cm/lt-dk bm/lt gry, micro-m xtal, some silty/sndy, chalky, bm chert, foss frags/grainy, no vis por, no odor, ns.  
SH: m-dk gry/blk, some vry silty, carb, soft-firm.

CFS @ 4650'  
Stop/30"/60"

LS: cm/lt-m bm/lt-dk gry, micro-m xtal, some vry silty/sndy, foss frags/coral, no vis por, no odor, ns.

LS: cm/lt-m bm/lt-dk gry, micro-m xtal, some silty/sndy, chalky, bm chert, foss frags/coral, no vis por, no odor, ns.

LS: cm/lt-m bm/lt-m gry, micro-m xtal, some chalky, some vry silty/sndy, wht/bm chert, foss frags/fn ool/min coral/grainy, no vis por, no odor, ns.

CFS @ 4680'  
Stop/30"/60"

LS: cm/lt-m bm/lt gry, micro-m xtal, min chalky, some silty/sndy, lt bm chert, foss frags/coral, no vis por, no odor, ns.

LS: cm/lt-dk bm/lt-m gry, micro-m xtal, min chalky, some silty/sndy/arg, bm chert, foss frags/min ool/coral, no vis por, no odor, ns.

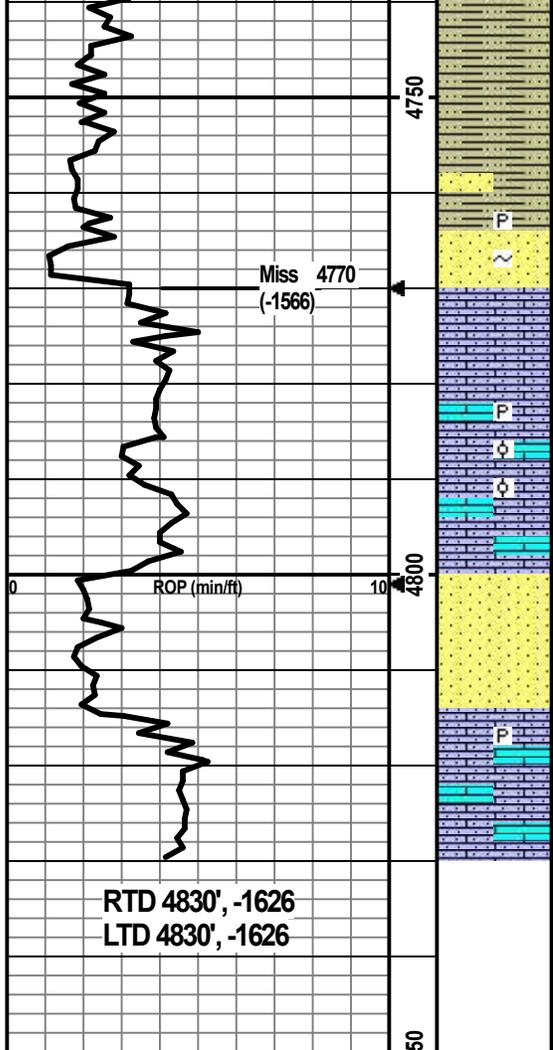
LS: cm/lt-m bm/min lt gry, micro-m xtal, min chalky, some silty/arg, min cm/bm chert, foss frags/min coral, no vis por, no odor, ns.

LS: cm/lt-dk bm/lt-dk gry, micro-m xtal, min chalky, some silty/arg, min cm/bm chert, foss frags, no vis por, 1 pce w/sfo w/vf-f in-xtal por, dul yel fluor, no odor, slit sfo.

CFS @ 4720'  
Stop/30"/60"

LS: as above, no odor, ns.  
SH: lt-dk gry/min dk maroon, some vry silty, soft-firm, few SS clusters, wht, vf-f, hard, slit friable, no odor, ns.

SH: lt-dk gry/lt gry-green/red-bm/lt mustard yel, some vry silty, carb, soft-firm, no odor, ns.



SH: as above, no odor, ns.

SH: as above. Few clusters SS: wht/lt gry, pred qtz, arg, vf-f, friable, no odor, ns.

SH: lt-dk gry/blk/dk bm/lt gry-green/dk maroon, some vry silty, pyritic, carb, soft-hard. SS: wht/lt-m gry/lt bm/lt green, f-m, sr-wr, pred qtz, some arg, min glauc, some carb, some hard, some friable, no odor, ns.

LS: wht/cmlt bm, vf-m xtal, vry sndy, some vry chalky, some hard, some soft/friable, no vis por, no odor, ns.

LS: wht/cmlt bm/min lt gry, micro-m xtal, some vry sndy, some vry chalky, min pyritic, min ool, no vis por, no odor, ns.

LS: wht/cmlt bm, micro-m xtal, some vry sndy, some vry chalky, min ool, no vis por, no odor, ns.

LS: as above. SS: wht/wht-lt gry, opaque, qtz, vf-m, sr-wr, glauc, hard, friable, no odor, ns. Smp is flood of SH: lt-dk gry/blk/lt green/red-bm/lt mustard yel, some silty, soft-firm.

LS: wht/cmlt bm/lt gry, micro-m xtal, some vry sndy, some vry chalky, min pyritic, no vis por, no odor, ns. SS as above. Cont flood of SH.

LS: wht/cmlt-m bm, micro-m xtal, some vry silty/sndy, some vry chalky, no vis por, no odor, ns. Some SS as above; Cont flood of SH.

TD @4830'

CFS @4780'  
Stop/30"/60"

CFS @4830'  
Stop/30"/60"  
Conducted 6 std short trip,  
CTCH 1.5 hrs, TOH for logging.



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
12/14/2022	34854

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

**RECEIVED**

DEC 19 2022

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-22	Jantz	Wichita	Duke Drlg Rig #4	Oil	Development	Surface Pipe	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				85	Miles	7.00	595.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	1,100.00	1,100.00
325	Standard Cement				160	Sacks	15.00	2,400.00T
279	Bentonite Gel				3	Sack(s)	40.00	120.00T
278	Calcium Chloride				7	Sack(s)	40.00	280.00T
276	Flocele				50	Lb(s)	3.00	150.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement				160	Sacks	2.00	320.00
583D	Drayage				669	Ton Miles	1.00	669.00
	Subtotal							5,718.00
	Sales Tax Wichita County						8.50%	257.89

502-5 9

**We Appreciate Your Business!**

**Total**

\$5,975.89

DW

JOB LOG

SWIFT Services, Inc.

DATE 12/13/2022 PAGE NO. 1

CUSTOMER Shakespeare Oil & Gas WELL NO. 1-22 LEASE JANTZ JOB TYPE Surface Pipe TICKET NO. 34854

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
12/13	2330							ON LOCATION 8 5/8" 2316/16 RTD: 226'
12/14	0010							Begin 8 5/8" Csg in Well
	0130							Break Circulation
	0145	3 1/2	5		✓		200	Pump 5 bbl H2O Spacer
	0150	300	39		✓		150	Mix 160 sks of Standard Cement w/ 2% gel, 3% CC, + 1/4 lb Flo @ 14.7ppg
	1405	4	0		✓		100	Begin Displacement
		4	12.5		✓		300	*Circulate Cement to Surface*
	1415	-	13.5		✓		200	KO Pump *Shut in* -Release PSI *Hold*
	1430							Wash up Truck #115
	1500							Job Complete
								160 sks of Standard Cement w/ 2% gel, 3% CC, 1/4 lb/sk Flo used
								* Approx 5 sks to the Pit * "Plug Down" @ 2:15 AM CST
								Thanks!
								Gudeon, Mark John

# SWIFT



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



## Invoice

DATE	INVOICE #
12/29/2022	34863

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

RECEIVED  
JAN 09 2023

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-22	Jantz	Wichita	Duke Drlg Rig #4	Oil	Development	Long String	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				90	Miles	7.00	630.00
578D-L	Pump Charge - Long String				1	Job	1,600.00	1,600.00
281	Mud Flush				500	Gallon(s)	2.00	1,000.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
419-5	5 1/2" Rotating Head Rental				1	Each	250.00	250.00T
325	Standard Cement				175	Sacks	15.00	2,625.00T
284	Calseal				8	Sack(s)	50.00	400.00T
283	Salt				900	Lb(s)	0.25	225.00T
292	Halad 322				150	Lb(s)	9.00	1,350.00T
277	Gilsonite (Coal Seal)				500	Lb(s)	1.25	625.00T
276	Flocele				25	Lb(s)	3.00	75.00T
581D	Service Charge Cement				175	Sacks	2.00	350.00
583D	Drayage				848	Ton Miles	1.00	848.00
	Subtotal							10,112.00
	Sales Tax Wichita County						8.50%	568.14

502-5 9

**We Appreciate Your Business!**

**Total**

\$10,680.14

DW

JOB LOG

SWIFT Services, Inc.

DATE 12/29/2022 PAGE NO. 1

CUSTOMER Shakespeare Oil & Gas WELL NO. 1-22 LEASE JANTZ JOB TYPE Long String TICKET NO. 34863

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2100							ON LOCATION 5 1/2" <del>15 1/2" 16 1/8"</del> RTD: 4,830' LTD: 4,830' 15 1/2" 16 1/8" TP: 4,368' SJ: 42.08' PC: 2,479'
12/29	2300							Drop Ball- Circulate
12/30	0015	4	12		✓	250		Pump 500 gal Mud Flush
		4	20		✓	250		Pump 20 bbl KCL SPACER
	0030	2	7 1/4			75		Plug RH <del>MA</del> [30, 25]
	<del>0045</del> 0045	3 1/2	11		✓	175		Mix 45 sks of EA-2 @ 15.36 ppg
		3 1/2	24		✓	175		Mix 100 sks of EA-2 w/ 5lb GILSONITE + 1/8lb lsk Floccle @ 15.36 ppg
0106	<del>0055</del> 0055							Wash Pump + Lines Release LATCH DOWN Plug
0110	<del>0100</del> 0100	6 1/2	0		✓	200		Begin Displacement
		6 1/2	80		✓	250		LIFE PSI
		6 1/2	102		✓	800		MAX LIFE PSI
0130	<del>0120</del> 0120	5 1/2	103		✓	1800		LAND LATCH DOWN Plug -Release PSI *Hold*
0140	<del>0130</del> 0130							Wash up Truck # 115
0230	<del>0140</del> 0140							Job Complete
								175 sks of EA-2 used 145 down well, 30 RH
								Thanks!
								Judean, Mack, Tyler, Brett



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
1/9/2023	34868

BILL TO
Shakespeare Oil Company, Inc 202 West Main Street Salem, IL 62881

**RECEIVED**  
 Acidizing  
 Cement  
 Tool Rental  
 JAN 16 2023

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-22	Jantz	Wichita	Cheyenne	Oil	Development	Port Collar	Gideon

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	90	Miles	7.00	630.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars	1	Job	1,600.00	1,600.00
330	Swift Multi-Density Standard (MIDCON II)	245	Sacks	19.50	4,777.50T
276	Flocele	75	Lb(s)	3.00	225.00T
275	Cotton Seed Hulls	1	Sack(s)	35.00	35.00T
290	D-Air	3	Gallon(s)	42.00	126.00T
581D	Service Charge Cement	300	Sacks	2.00	600.00
583D	Drayage	1,348	Ton Miles	1.00	1,348.00
	Subtotal				9,341.50
	Sales Tax Wichita County			8.50%	438.90

502-5 9y

**We Appreciate Your Business!**

**Total**

\$9,780.40

DW

JOB LOG

SWIFT Services, Inc.

DATE 11/9/2022 PAGE NO. 1

CUSTOMER Shakespeare Oil & Gas WELL NO. 1-22 LEASE JANTZ JOB TYPE Port Collar TICKET NO. 34868

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								ON LOCATION 2 3/8" x 5 1/2"
								PC: 2479'
	1100	<del>0</del>					1,200	P Test BS to 1,200 PSI *Hold* -Release PSI
	1110							OPEN PC
	1115	4	3				600	Injection RATE
	1125	3 1/2	135				Avg 460	Mix 245 sks of SMD @ 11.2ppg <sup>1/2" #Flt</sup> [Dump Cotton Seed Halls in first 30 sks. UNTIL Circulation] *Circulate CMT to Surface*
		3 1/2	8.5				650	Displace Cement
	1205							Close PC
	1220							Run 5 JOINTS
	1220	3	25				Avg 350	Reverse Clean
	1230							Wash up Truck #115
	1315							Job Complete
								245 sks of SMD 1/4lb/sk Flt used *Approx 20 sks to the Pit*
								THANKS!
								Sudeon, Mack, Tyler



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare

**22-16s-35w Wichita, Ks**

202 W Main St  
Salem, IL 62881

**Jantz 1-22**

Job Ticket: 70277

**DST#: 1**

ATTN: Kent Matson

Test Start: 2022.12.17 @ 11:44:48

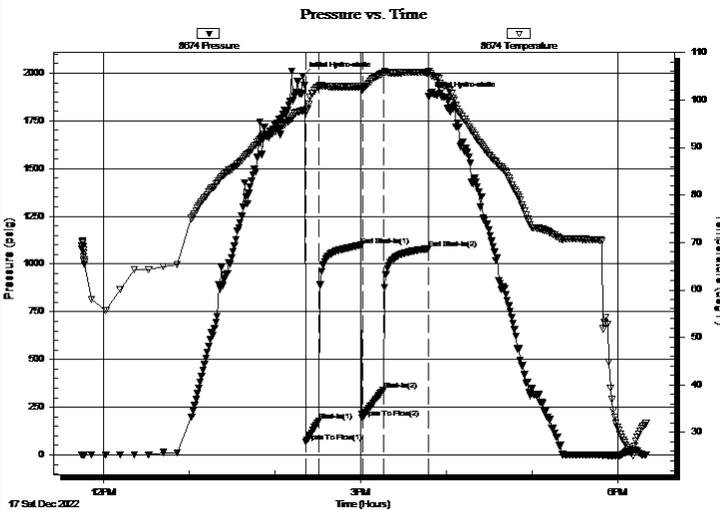
## GENERAL INFORMATION:

Formation: **Oread- Lansing A**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:21:48  
 Time Test Ended: 18:19:48  
 Interval: **3890.00 ft (KB) To 4040.00 ft (KB) (TVD)**  
 Total Depth: 4040.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3204.00 ft (KB)  
 3195.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8674 Outside**  
 Press@RunDepth: 338.43 psig @ 3891.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.12.17 End Date: 2022.12.17 Last Calib.: 2022.12.17  
 Start Time: 11:44:53 End Time: 18:19:47 Time On Btm: 2022.12.17 @ 14:19:48  
 Time Off Btm: 2022.12.17 @ 15:47:48

TEST COMMENT: IF: BOB in 3 mins. 31"  
 IS: No return.  
 FF: BOB in 4 mins. 40"  
 FS: No return. 10-30-15-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1983.84	97.77	Initial Hydro-static
2	66.91	97.23	Open To Flow (1)
11	178.38	102.81	Shut-In(1)
41	1098.90	102.81	End Shut-In(1)
42	195.00	102.36	Open To Flow (2)
56	338.43	105.65	Shut-In(2)
88	1080.00	105.77	End Shut-In(2)
88	1877.84	106.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
186.00	ocmw 5%g 5%o 60%w 30%m	2.61
124.00	gocw m 20%g 10%o 20%w 50%m	1.74
186.00	ocw m 5%o 5%w 90%m	2.61
164.00	mud 100%m	2.30

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare

**22-16s-35w Wichita, Ks**

202 W Main St  
Salem, IL 62881

**Jantz 1-22**

Job Ticket: 70277

**DST#: 1**

ATTN: Kent Matson

Test Start: 2022.12.17 @ 11:44:48

## 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:

37000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
186.00	ocmw 5%g 5%o 60%w 30%m	2.609
124.00	gocw m 20%g 10%o 20%w 50%m	1.739
186.00	ocw m 5%o 5%w 90%m	2.609
164.00	mud 100%m	2.300

Total Length: 660.00 ft

Total Volume: 9.257 bbf

Num Fluid Samples: 0

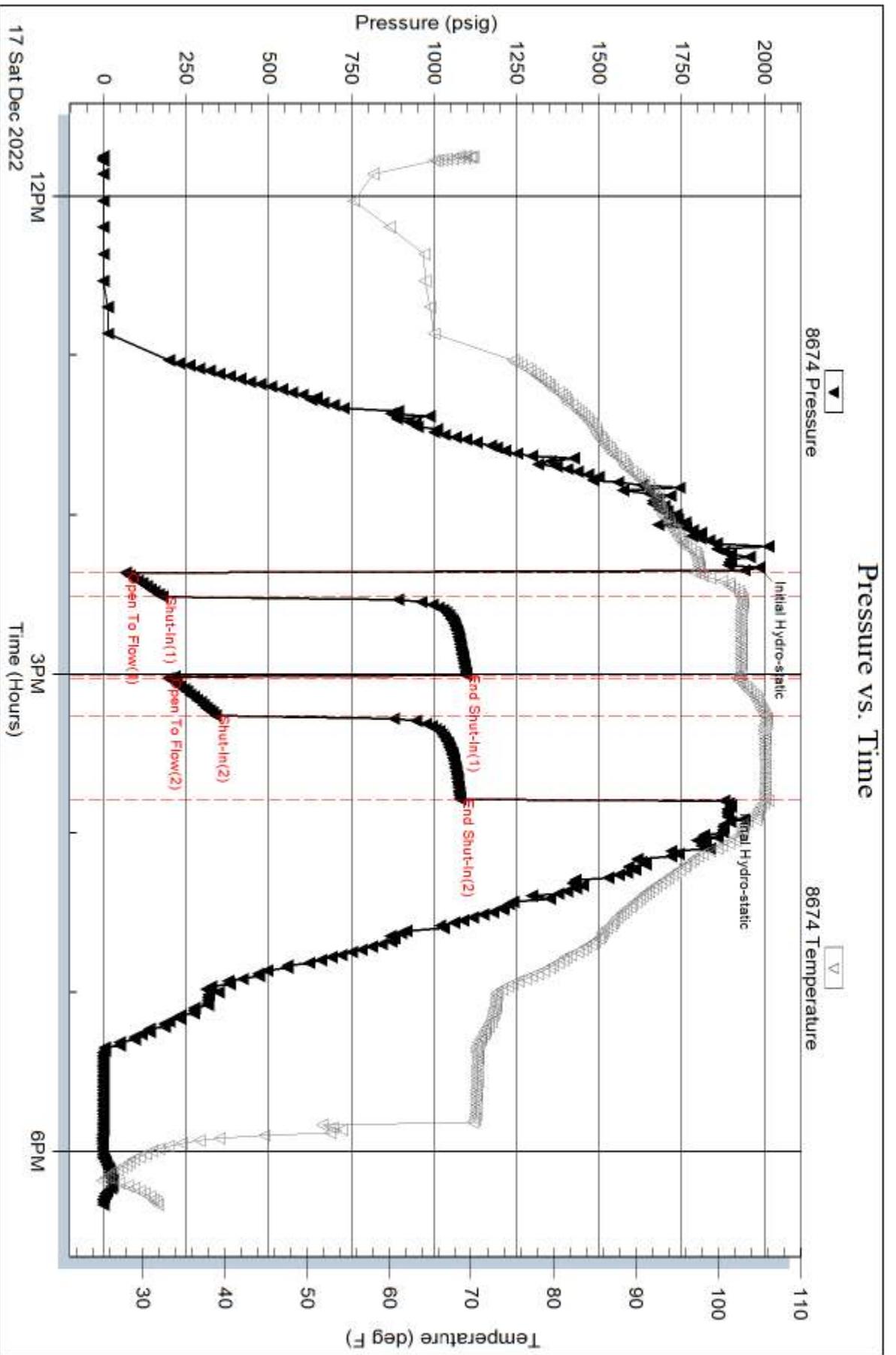
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .38@36=37000



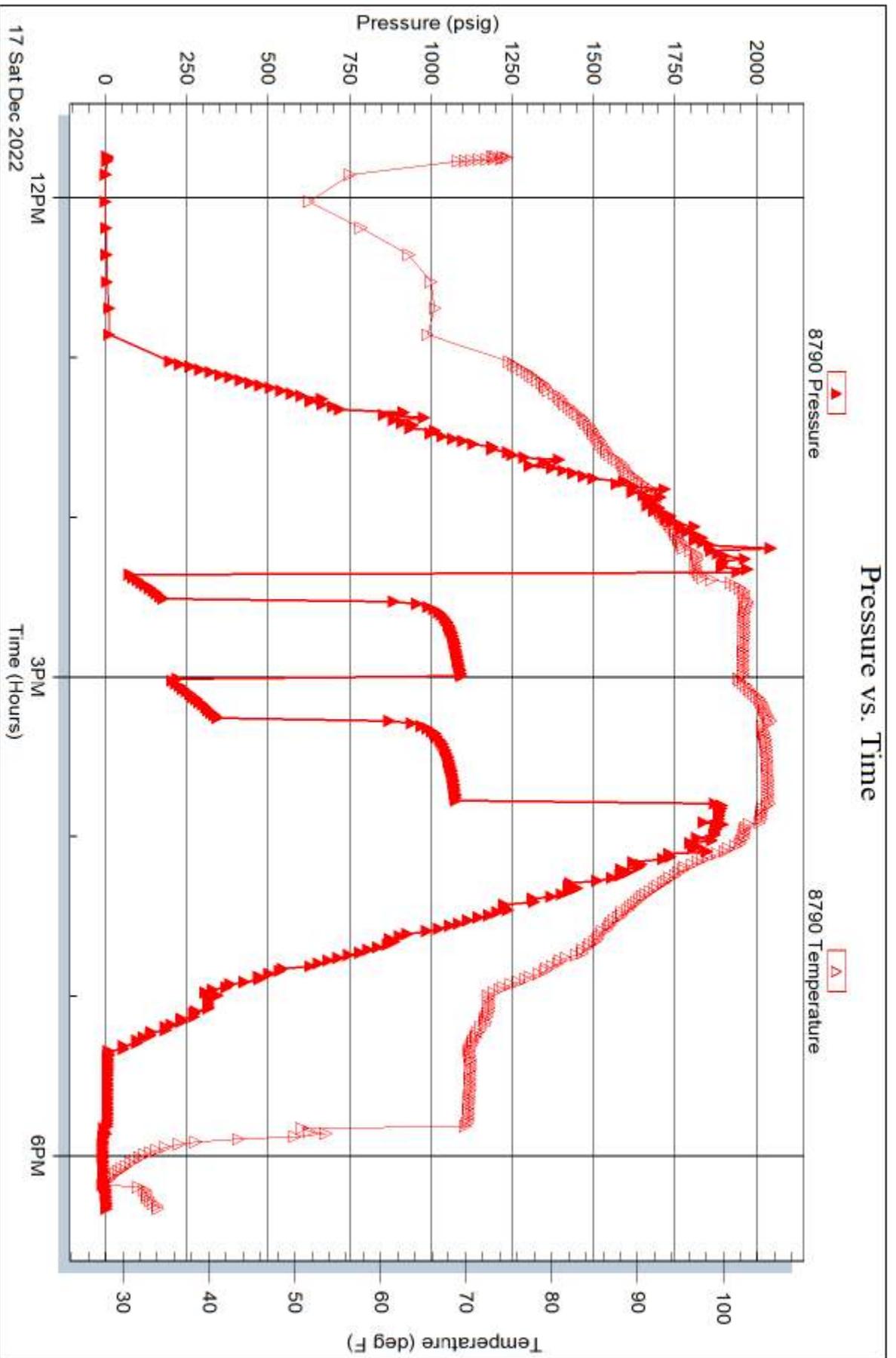
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Inside

Shakespeare

Jantz 1-22

DST Test Number: 1





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare

**22-16s-35w Wichita, Ks**

202 W Main St  
Salem, IL 62881

**Jantz 1-22**

Job Ticket: 70278

**DST#: 2**

ATTN: Kent Matson

Test Start: 2022.12.18 @ 20:15:31

## GENERAL INFORMATION:

Formation: **Lansing B-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:50:01

Time Test Ended: 03:45:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4056.00 ft (KB) To 4280.00 ft (KB) (TVD)**

Reference Elevations: 3204.00 ft (KB)

Total Depth: 4280.00 ft (KB) (TVD)

3195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 1049.82 psig @ 4057.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.12.18

End Date:

2022.12.19

Last Calib.:

2022.12.19

Start Time: 20:15:36

End Time:

03:45:30

Time On Btm:

2022.12.18 @ 22:48:31

Time Off Btm:

2022.12.19 @ 00:30:31

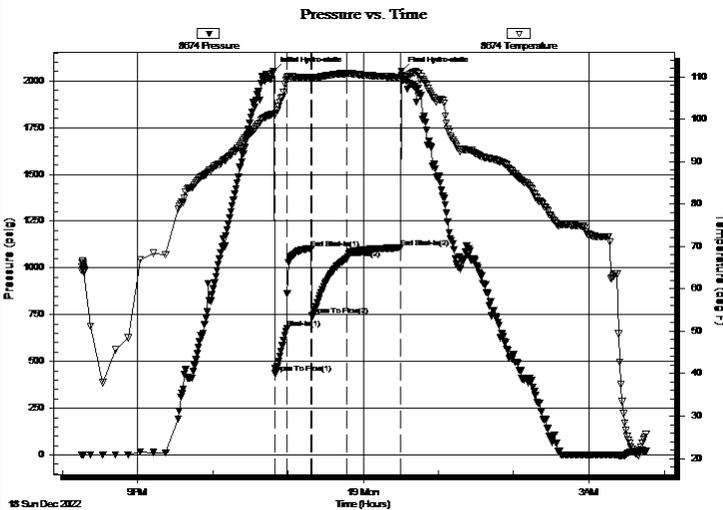
TEST COMMENT: IF: BOB 148"

IS: No return.

FF: BOB in 1 min. 193"

FS: No return. 10-20-30-40

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2051.49	101.24	Initial Hydro-static
2	434.72	101.25	Open To Flow (1)
11	674.43	109.48	Shut-In(1)
30	1103.20	109.89	End Shut-In(1)
31	744.81	109.73	Open To Flow (2)
59	1049.82	110.76	Shut-In(2)
101	1108.11	109.95	End Shut-In(2)
102	2052.86	110.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
558.00	ocmw 10%o 70%w 20%m	7.83
620.00	gocmw 10%g 10%o 40%w 40%m	8.70
558.00	ocw m 10%o 20%w 70%m	7.83
248.00	ocm 10%o 90%m	3.48
248.00	mud 100%m	3.48

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare

**22-16s-35w Wichita, Ks**

202 W Main St  
Salem, IL 62881

**Jantz 1-22**

Job Ticket: 70278

**DST#: 2**

ATTN: Kent Matson

Test Start: 2022.12.18 @ 20:15:31

### 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:

40000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
558.00	ocmw 10%o 70%w 20%m	7.827
620.00	gocmw 10%g 10%o 40%w 40%m	8.697
558.00	ocw m 10%o 20%w 70%m	7.827
248.00	ocm 10%o 90%m	3.479
248.00	mud 100%m	3.479

Total Length: 2232.00 ft      Total Volume: 31.309 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

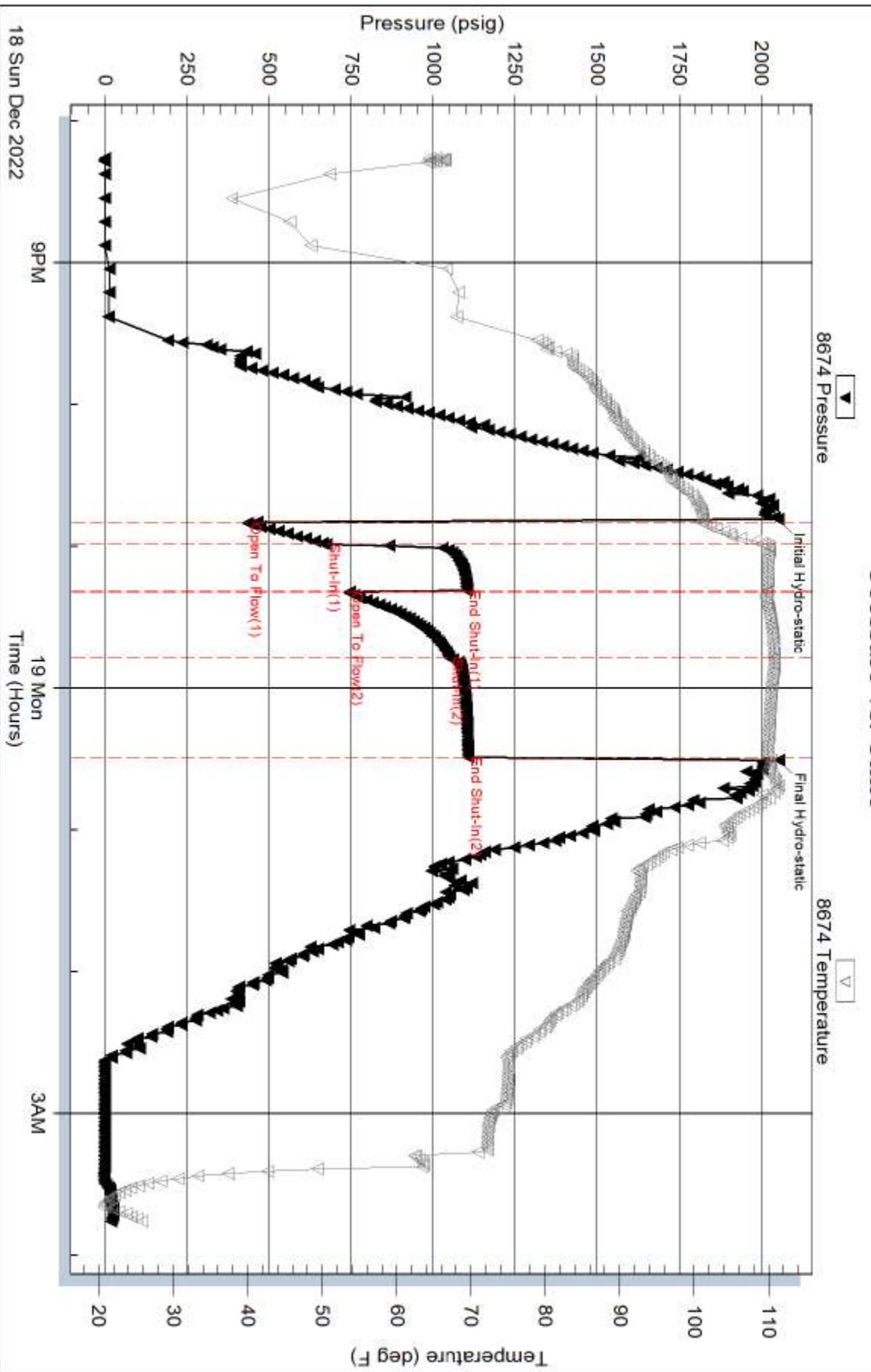
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .53@24=40000

### Pressure vs. Time



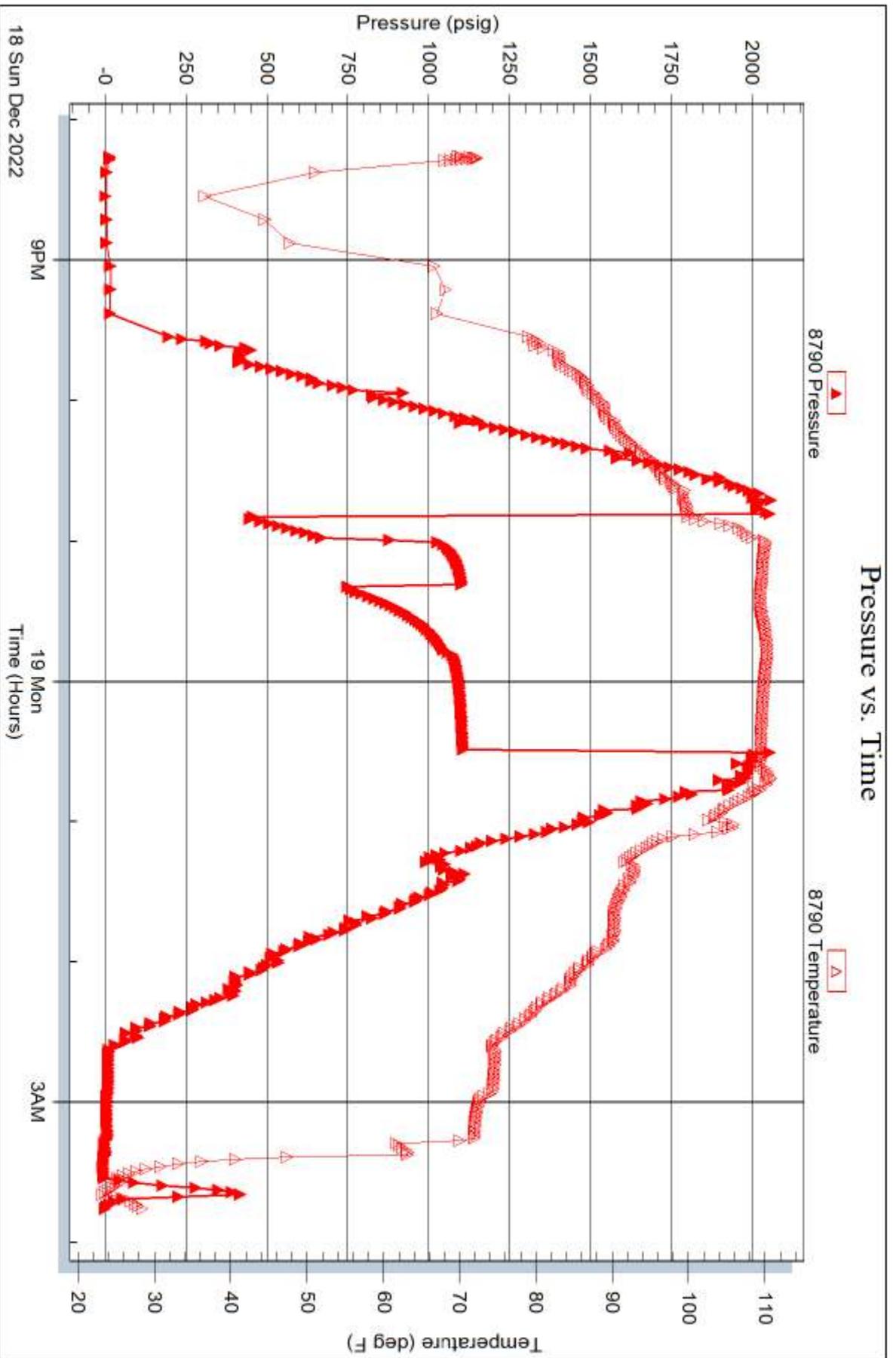
Serial #: 8790

Inside

Shakespeare

Jantz 1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 70278

Printed: 2022.12.19 @ 07:17:40



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare

**22-16s-35w Wichita, Ks**

202 W Main St  
Salem, IL 62881

**Jantz 1-22**

Job Ticket: 70279

**DST#: 3**

ATTN: Kent Matson

Test Start: 2022.12.19 @ 13:05:30

## GENERAL INFORMATION:

Formation: **Lansing K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:33:00

Time Test Ended: 19:49:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4288.00 ft (KB) To 4330.00 ft (KB) (TVD)**

Reference Elevations: 3204.00 ft (KB)

Total Depth: 4330.00 ft (KB) (TVD)

3195.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 9.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 927.06 psig @ 4289.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.12.19

End Date:

2022.12.19

Last Calib.:

2022.12.19

Start Time: 13:05:35

End Time:

19:48:59

Time On Btm:

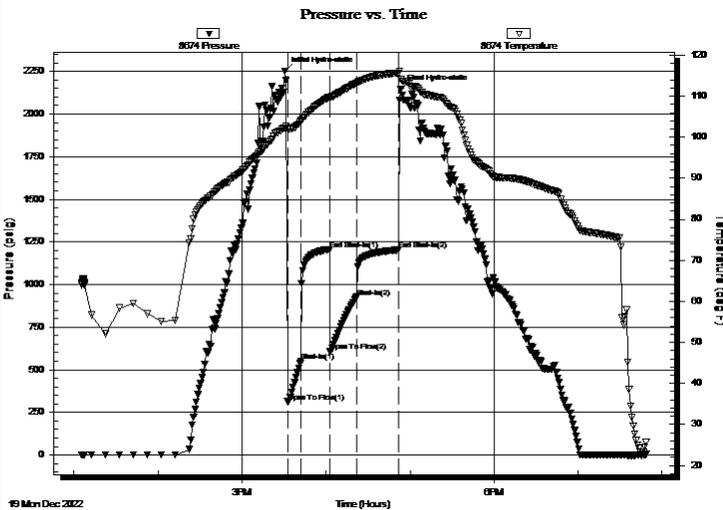
2022.12.19 @ 15:30:30

Time Off Btm:

2022.12.19 @ 16:53:30

**TEST COMMENT:** IF: BOB in 1 min. 111"  
IS: No return.  
FF: BOB in 1 min. 149"  
FS: No return. 10-20-20-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.71	102.16	Initial Hydro-static
3	311.30	102.12	Open To Flow (1)
12	550.13	103.80	Shut-In(1)
32	1206.72	109.82	End Shut-In(1)
33	607.00	109.65	Open To Flow (2)
52	927.06	113.20	Shut-In(2)
81	1202.75	115.67	End Shut-In(2)
83	2147.41	114.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1426.00	water 100%w	20.00
310.00	mcw 90%w 10%m	4.35
236.00	w cm Oil spots 40%w 60%m	3.31
0.00	6 PPM H2S dropped the bar	0.00

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shakespeare

**22-16s-35w Wichita, Ks**

202 W Main St  
Salem, IL 62881

**Jantz 1-22**

Job Ticket: 70279

**DST#: 3**

ATTN: Kent Matson

Test Start: 2022.12.19 @ 13:05:30

### 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:

23000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1426.00	water 100%w	20.003
310.00	mcw 90%w 10%m	4.348
236.00	w cm Oil spots 40%w 60%m	3.310
0.00	6 PPM H2S dropped the bar	0.000

Total Length: 1972.00 ft

Total Volume: 27.661 bbl

Num Fluid Samples: 0

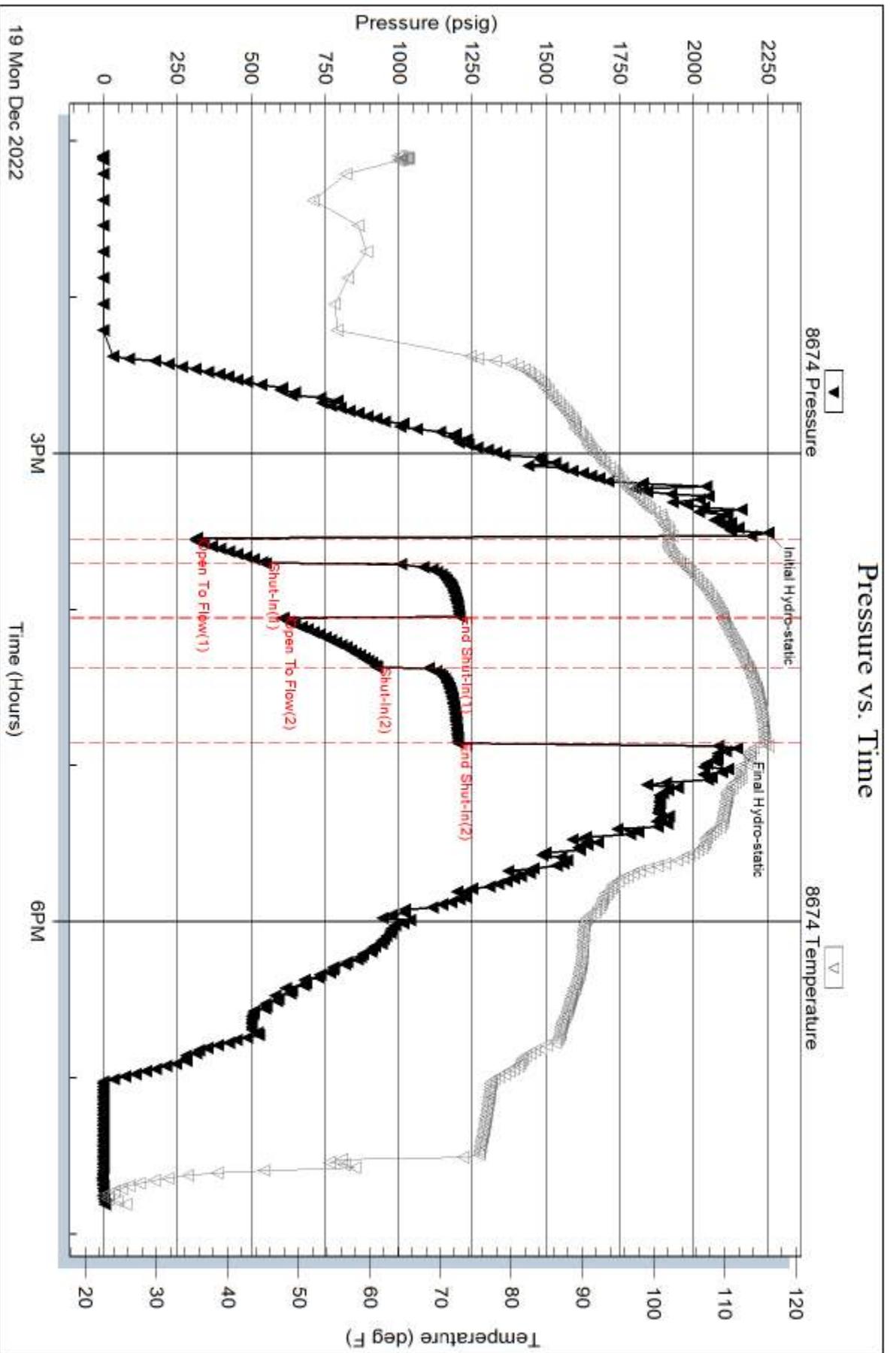
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .47@44=23000



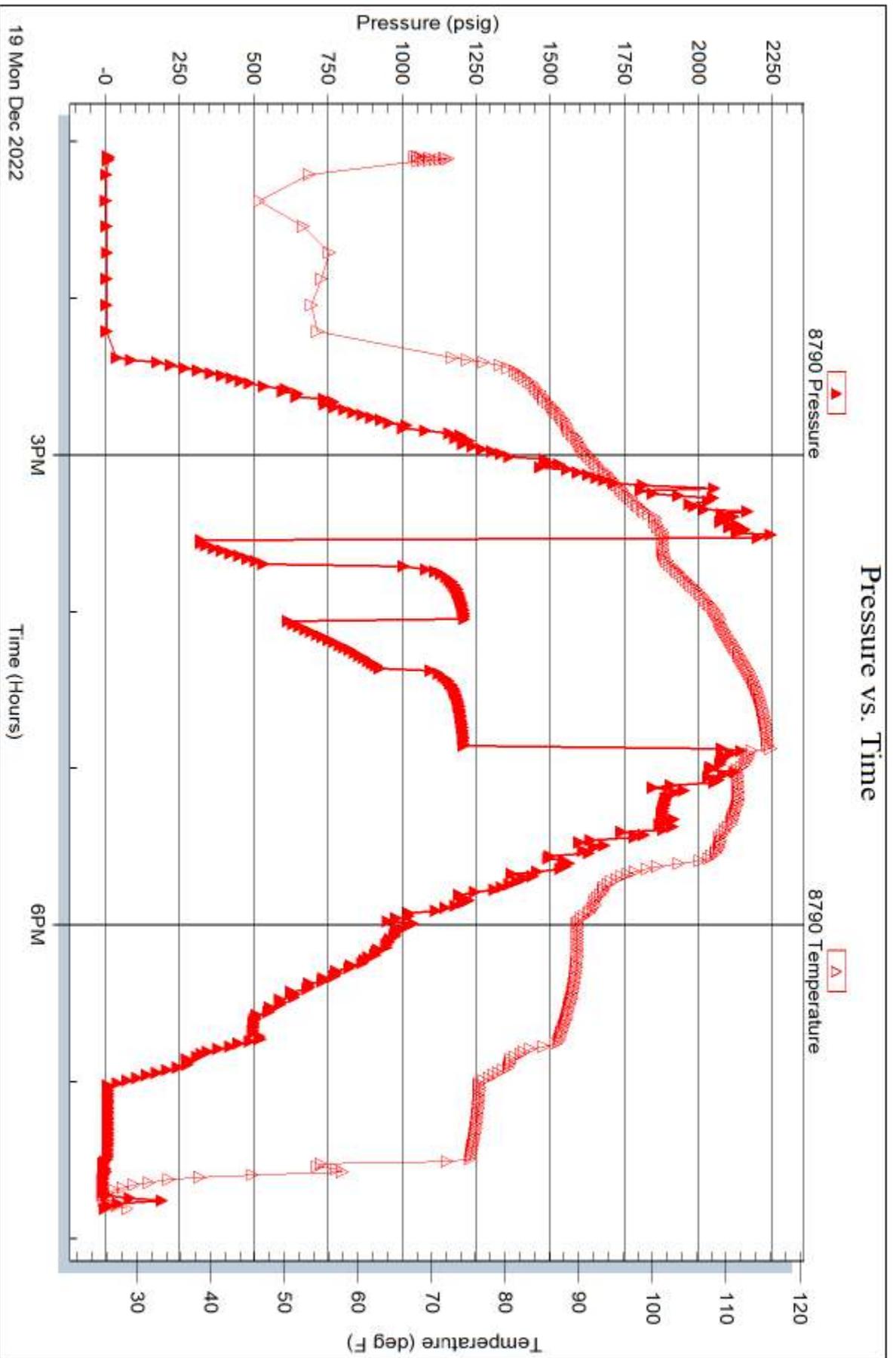
Serial #: 8790

Inside

Shakespeare

Jantz 1-22

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 70279

Printed: 2022.12.19 @ 22:36:19