KOLAR Document ID: 1573655

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 # 7311
Name: Shakespeare Oil Co., Inc.
Address 1: 202 W MAIN ST
Address 2:
City: SALEM State: IL Zip: 62881 + 1519
Contact Person: Don Williams
Phone: (618) 548-1585
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Kent Matson
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 #:

04/19/2021 Spud Date or Recompletion Date
4/28/2021 Date Reached TD
04/29/2021 Completion Date or Recompletion Date

API No.: 15-109-21614-00-00
Spot Description:
SW - NW - SE - NE Sec. 9 Twp. 14 S. R. 32 ☐ East ☑ West
1940 Feet from ☑ North / ☐ South Line of Section
1220 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Logan
Lease Name: OTTLEY Well #: 2-9
Field Name: Rose Garden West
Producing Formation: NA
Elevation: Ground: 2810 Kelly Bushing: 2819
Total Vertical Depth: 4510 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 263 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: 6500 ppm Fluid volume: 2500 bbls
Dewatering method used: Evaporated
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: 05/19/2021
☐ **Confidential Release Date:** 05/19/2023
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 05/19/2021

Page Two

Operator Name: Shakespeare Oil Co., Inc. Lease Name: OTTLEY Well #: 2-9

Sec. 9 Twp. 14 S. R. 32 ☐ East ☑ West County: Logan

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

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

Drill Stem Tests Taken *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run:

Dual Compensated Porosity
Dual Induction
Microlog

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	263	Class A	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

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

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	OTTLEY 2-9
Doc ID	1573655

Tops

Name	Top	Datum
Base Anhydrite	2301	+518
Heebner	3772	-953
Lansing	3811	-992
Muncie Creek	3975	-1156
Stark Shale	4064	-1245
Hushpuckney	4099	1280
Marmaton	4196	-1377
Pawnee	4266	-1447
L. Cherokee Shale	4346	-1527
Johnson	4391	-1572
Mississippian	4456	-1637

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	OTTLEY 2-9
Doc ID	1573655

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	263	Class A	150	

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

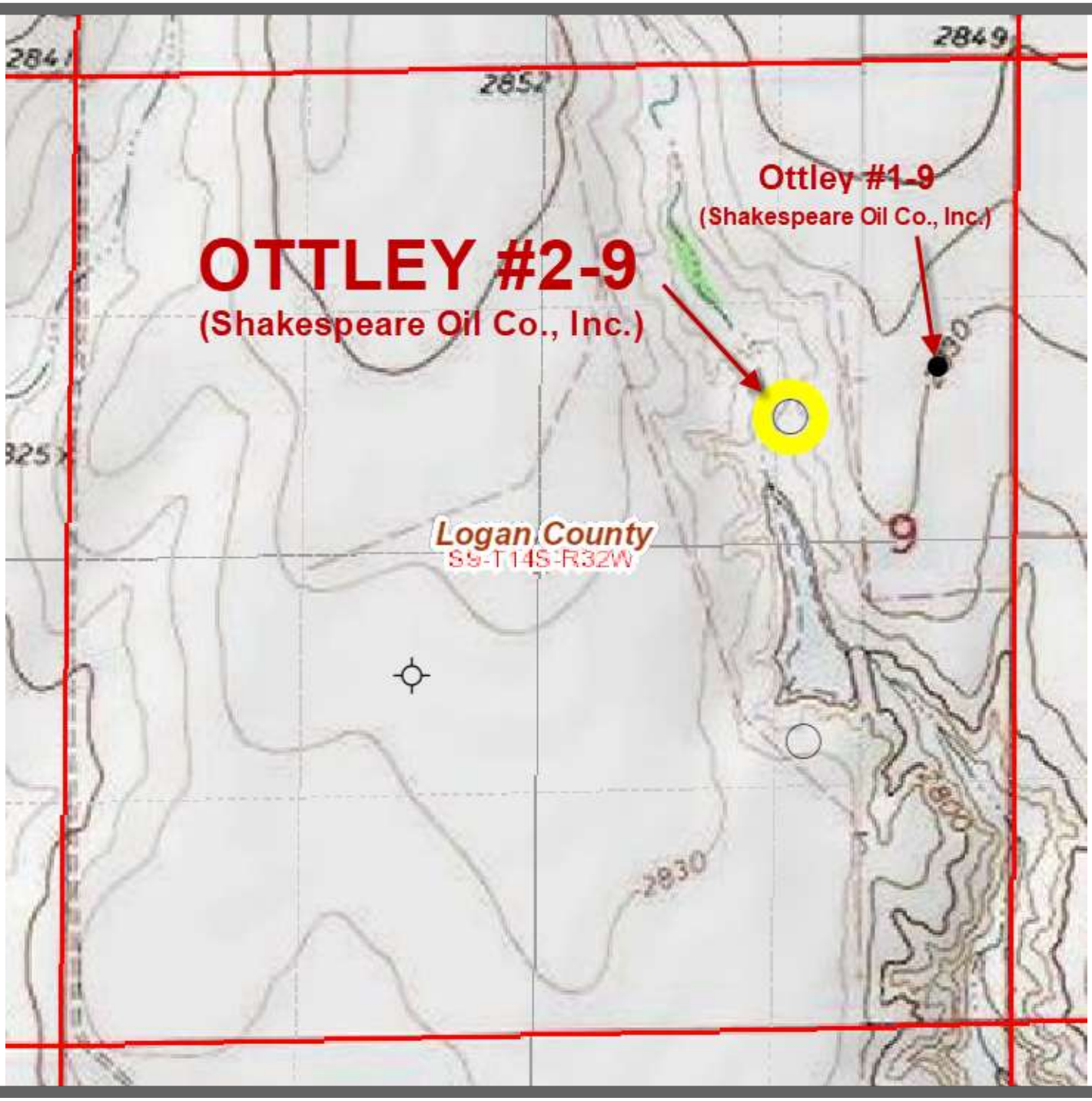
Well Name:	**OTTLEY**		
Well Id:	**#2-9**		
Location:	**1940' FNL, 1220' FEL, NE/4 Sec 09-T14S-R32W, Logan County, Kansas**		
License Number:	**API: 15-109-21614**	**Region:**	**Logan County**
Spud Date:	**04/19/2021**	**Drilling Completed:**	**04/29/2021**
Surface Coordinates:	**Lat: 38.8530858** **Long: -100.8767574**		
Bottom Hole Coordinates:	**Vertical hole**		
Ground Elevation (ft):	**2810'**	**K.B. Elevation (ft):**	**2819'**
Logged Interval (ft):	**3650'** **To: RTD**	**Total Depth (ft):**	**4510'**
Formation:	**Mississippian at RTD**		
Type of Drilling Fluid:	**Chemical**		

OPERATOR

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

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



COMMENTS

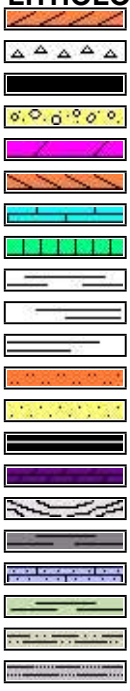
Shakespeare Oil Company, Inc., Geologist: Toby Eck, 316-305-0572 (cell).
Contractor: Duke Drilling Company, Inc.: Rig #4.
Tool Pusher: Emigdio Rojas, 620-655-7138 (cell).
Surface Casing: 8 5/8" set at 263' (KB) w/150sx cement.
Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation, production casing was not installed and the well was plugged.
Mud by: Mud-Co/Service Mud, Inc., Reid Atkins, 785-694-3741 (cell).
DST's by: Trilobite Testing, Martine Salinas, 785-639-2040 (cell).
Logs by: Midwest Wireline (DI w/GR, CND, and Micro), Dan Schmidt, 785-625-3858 (office).
RTD= 4510'
LTD= 4513'

FORMATION TOPS

FORMATION	SAMPLE TOPS Depth	Datum	LOG TOPS Depth	Datum
Heebner Shale	3772'	-953	3774'	-955
Lansing	3815'	-996	3817'	-998
Muncie Creek Shale	3975'	-1156	3977'	-1158
Stark Shale	4064'	-1245	4066'	-1247
Hushpuckney Shale	4099'	-1280	4100'	-1281
Base of KC	4140'	-1321	4142'	-1323
Marmaton	4204'	-1385	4203'	-1384
Pawnee	4268'	-1449	4268'	-1449
Myrick Station	4299'	-1480	4300'	-1481
Fort Scott	4320'	-1501	4322'	-1503
Cherokee Shale	4346'	-1527	4349'	-1530
Johnson	4391'	-1572	4391	-1572
Morrow	4419'	-1600	4422'	-1603
Mississippian	4456'	-1637	4458'	-1639
RTD	4510'	-1691		
LTD			4513'	-1694

ROCK TYPES

LITHOLOGY



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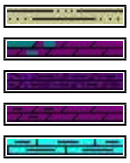

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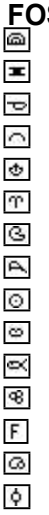
FOSSIL

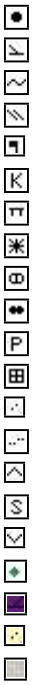


Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite

Ostra
Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomold

MINERAL

Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar



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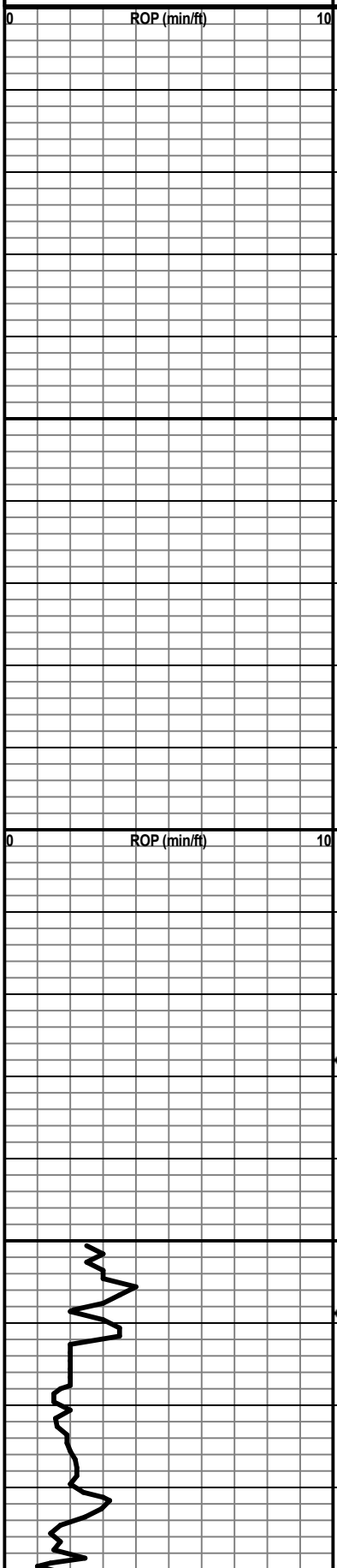
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff
Chlorite
Dol
Sand
Slty



DEPTH | Lithology | CFS Point | Oil Shows

Geological Descriptions

Morning Report Depth/Activity (7:00 am)

04/19/2021, Finish MIRU, Spud; set surface casing @263'KB.
04/20, WOC @265'.
04/21, drilling @1980'.
04/22, drilling @3560'.
04/23, DST #1 @3860'.
04/24, DST #2 @3914'.
04/25, drilling @4153'.
04/26, TIH after DST#3 @4260'.
04/27, drilling @4356'.
04/28, CFS @4440'.
04/29, TD @4510'; Electric logged.

Anhydrite: Top @2280' (+539), Base @2301' (+518) (based on drill time).

<<<<~~~~ 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.

Geologist on location @3637, 04/22/2021.

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

ROP Data begins @3650' on 04/22/2021. Recorded from drillers record and auto-reader switch on geolograph.

Drill cutting samples at 10' intervals start at 3650'.

LS: crm/lt-m brn/some dk gry mottling, micro-med xtal, silty/sndy, chalky, foss frags, some ppt-vf in-xtal por, no odor, ns. SH: lt-m gry/brn, vry silty/sndy, soft-firm.

LS: crm/lt brn, micro-med xtal, vry silty/sndy, some chalky, foss frags/fusln, no vis por, no odor, ns.

SH: lt-dk gry, vry silty/sndy, slt carb, firm, fissile, no odor, ns.

LS: crm/lt brn, micro-m xtal, vry silty/sndy, min chalky, abund foss frags/grainy, no vis por, no odor, ns.

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

LS: wht/crm/lt brn, micro-med xtal, vry silty/sndy, some chalky, foss frags/grainy, no vis por, no odor, ns.

Remarks

Mud-Co/Service Mud Inc. Check #1 @0' 04/16/21, predrilling instructions.

Mud-Co/Service Mud Inc. Check #2 @2141' 04/21/21 07:30am
wt vis pH chl
9.5 33 7 120
Filt LCM
n/c 2

Displaced drilling mud @3436'; 600 bbls.

Mud-Co/Service Mud Inc. Check #3 @3628' 04/22/21 08:30am
wt vis pH chl
8.8 55 11.5 1200
Filt LCM
7.2 3

Bit Trip @3628': Replaced PDC bit w/tricone bit.

Pipe strap TOH for bit trip at 3628' was 3.56' long to the board.

Mud-Co/Service Mud Inc. Check #4 @3860' 04/23/21 10:00am
wt vis pH chl
9.1 49 10.5 1500
Filt LCM
8.0 2

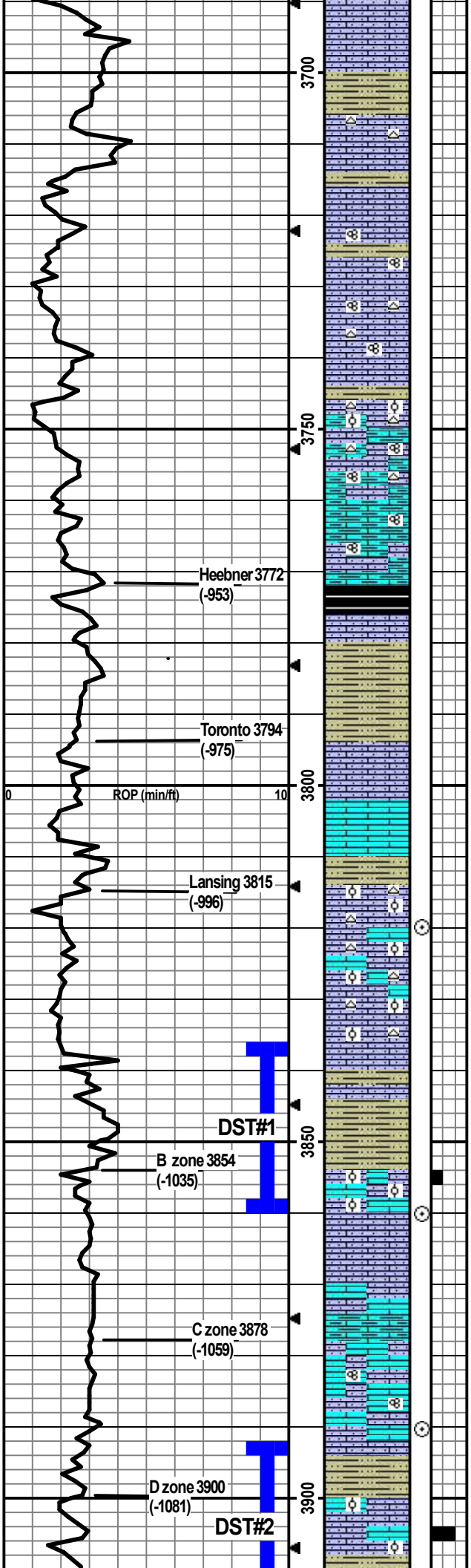
Mud-Co/Service Mud Inc. Check #5 @3931' 04/24/21 09:00am
wt vis pH chl
9.1 61 10.5 2400
Filt LCM
8.8 2

Mud-Co/Service Mud Inc. Check #6 @4185' 04/25/21 09:45am
wt vis pH chl
9.4 69 11.5 2400
Filt LCM
8.0 1

Mud-Co/Service Mud Inc. Check #7 @4275' 04/26/21 09:30am
wt vis pH chl
9.5 67 10.5 3000
Filt LCM
8.8 2

Mud-Co/Service Mud Inc. Check #8 @4378' 04/27/21 10:00am
wt vis pH chl
9.2 56 11 3100
Filt LCM
7.2 2

Mud-Co/Service Mud Inc. Check #9 @4470' 04/28/21 09:40am
wt vis pH chl
9.0 48 10.5 3000
Filt LCM
8.8 2



LS: wht/crm/lt brn/lt gry, micro-m xtal, vry silty/sndy, foss frags/grainy, no vis por, no odor, ns.

SH: lt-m gry, vry silty/sndy, carb, soft-firm, no odor, ns.

LS: crm/lt brn/lt gry-brn, micro-m xtal, vry silty/sndy, some chalky, min wht chert, foss frags, no vis por, no odor, ns.

LS: crm/lt-m gry-brn/lt gry, micro-m xtal, vry silty/sndy, some chalky, foss frags/grainy, no vis por, no odor, ns.

LS: crm/lt-m brn, micro-m xtal, silty/sndy, some chalky, foss frags/fusln, no vis por, no odor, ns.

LS: wht/crm/lt gm/lt brn, micro-m xtal, some vry silty/sndy, wht chert, foss frags/grainy/fusln, no vis por, no odor, ns.

LS: crm/lt-m brn, micro-m xtal, some silty/sndy, crm chert, foss frags/grainy/fn ool, no vis por, no odor, ns.

LS: wht/crm, micro-m xtal, vry silty/sndy, chalky/arg, crm/lt gry chert w/fusln, abund foss frags/grainy/fusln, ppt-f in-xtal por, no odor, ns.

LS: lt gry/lt brn, micro-med xtal, vry silty/sndy, chalky, arg, abund foss frags/some grainy/fusln, some ppt-vf in-xtal por, no odor, ns

SH: dk gry/blk, slt carb, firm, no odor, ns.
LS: crm/lt brn, micro-med xtal, some vry silty, min chalky, wht chert, foss frags, min ppt-f in-xtal por, no odor, ns.

SH: lt gry/lt gm-gry, vry silty, slt carb, vry soft-soft, no odor, ns.

LS: crm/lt brn, micro-med xtal, some vry silty/sndy, some chalky, wht chert, foss frags, no vis por, no odor, ns.

LS: crm, micro-fn xtal, dense w/no vis por, no odor, ns.

SH: lt-m gry, vry silty, carb, soft-firm, no odor, ns.

LS: crm/lt brn, micro-m xtal, silty/sndy, min chalky, min wht chert, foss frags/ool, some ppt-f in-ool por w/m-crs oo-castic por, no odor, ns.

LS: crm/lt brn, micro-m xtal, some silty, chalky, min wht chert, foss frags/dense ool, min ppt-f in-xtal por, no odor, ns.

LS: crm/min lt gry, micro-m xtal, silty/sndy/chalky, wht chert, foss frags/ool, some ppt-f in-xtal por, some m-crs oo-castic por, no odor, ns.

SH: lt-m gry/brn, vry silty/sndy, carb, soft-firm, no odor, ns.

LS: crm/lt brn, micro-med xtal, some silty/sndy, chalky foss frags/dense ool, 9 pcs w/f-m/some crs in-xtal por w/sfo, yel fluor, no odor, sfo.

SH: lt-m gry/green-gry/brn, vry silty/sndy, carb, soft-firm, no odor, ns.

LS: wht/crm/lt gry-brn, micro-f xtal, some silty/sndy, chalky, foss frags/some grainy, no vis por, no odor, ns.

LS: wht/crm, micro-f xtal, some silty, chalky, foss frags/fusln, no vis por, no odor, ns.

SH: lt-m gry/lt gm-gry, vry silty, soft-firm.

LS: crm/lt brn, micro-m xtal, some silty/sndy, some chalky, foss frags/ool, 19 pcs w/mostly fn-med/min crs in-xtal por w/sfo, good odor, yel fluor, gsfo. 11 pcs in 20min smpl.

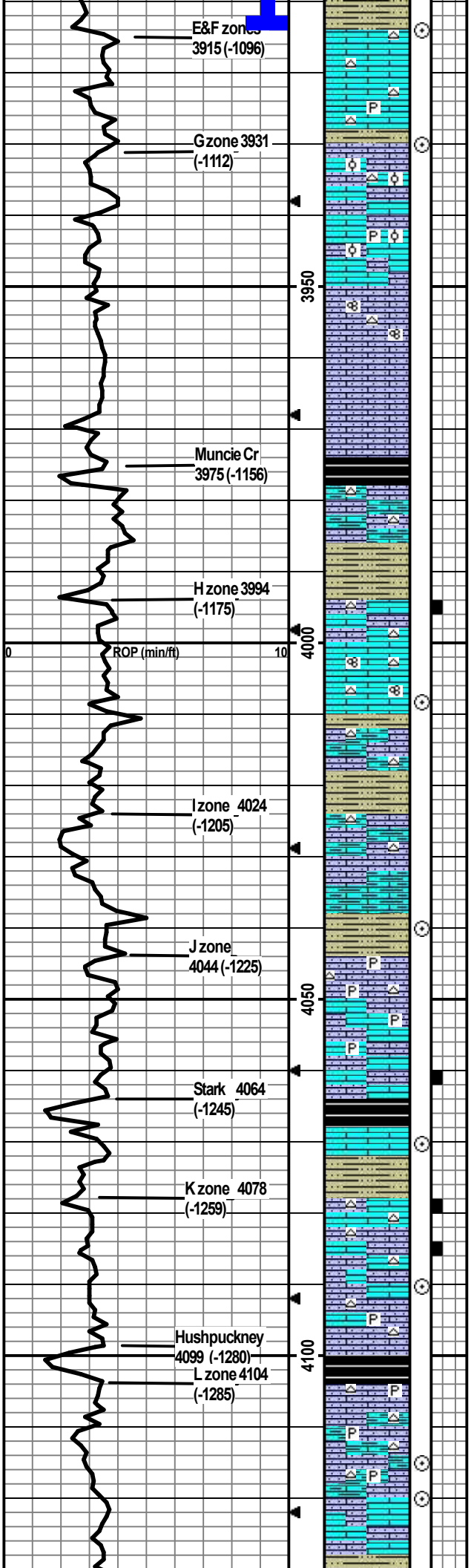
Survey Record
Deg @ Ft
0.5 @ 265'
1.0 @ 1273'
0.5 @ 2262'
0.5 @ 3283'
0.5 @ 3628'
0.75 @ 4260'
1.0 @ 4510'

CFS @ 3820'
Stop/20"/40"

DST1) 3836-3860
Lansing B-zone
15/30/30/30
1st) surface blow built to 3/4"; no BB.
2nd) surface blow at 17min built to 1/4"; no BB.
IFP 27-32#
ISIP 769#
FFP 31-39#
FSIP 722#
HP 1880-1863#
Recvd: 10' Mud w/oil spots.

CFS @ 3860'
Stop/20"/40"

CFS @ 3890'
Stop/20"/40"



SH: lt-m gry/gm-gry/brn, slt carb, soft.

LS: crm, micro-f xtal, some chalky, wht/orange chert, foss frags, some frac por, no odor, ns.

CFS @3914'
Stop/20"/40"

LS: crm, micro-f xtal w/some 2ndary xtals, chalky, wht/orange chert, min pyritic, some frac por, no odor, ns.

SH: m-dk gry/gm-gry/brn, slt carb, silty, soft-firm.

LS: crm/lt brn, micro-m xtal, some silty/sndy, min crm chert, some chalky, foss frags/grainy/ool, min crs oo-castic por, no odor, ns.

CFS @3930'
Stop/20"/40"

DST2) 3892-3914 Lansing D-zone

15/30/45/60
1st) 1/2" blow built to 10 3/4"; no BB.
2nd) surface blow built to BOB in 26min; no BB.
IFP 35-117#
ISIP 519#
FFP 121-206#
FSIP 512#
HP 1924-1885#
Recvd: 10' CGO (12%G, 88%O), 390' OSMW (3%O, 5%M, 92%W).

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

LS: crm/lt brn/lt gry, micro-f xtal w/some 2ndary xtals, silty/sndy, chalky, min wht/orange foss frags/fusln, no vis por, no odor, ns.

LS: crm/lt brn/lt gry, micro-f xtal, chalky, silty, min foss frags, no vis por, no odor, ns.

SH: dk gry/blk, silty, slt carb, soft-firm, no odor, ns.

LS: crm/lt brn/lt gry, micro-f xtal, some silty, crm/lt brn chert, min foss frags, no vis por, no odor, ns.

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

LS: wht/crm/lt brn/min lt gry, micro-m xtal, some silty/sndy, some chalky, wht/lt brn/lt gry chert, min foss frags, mostly dense w/1 pce w/f-m in-xtal por w/sfo, dull yel fluor, no odor, ssfo.

LS: wht/crm/lt brn/lt gry, micro-f xtal w/some 2ndary xtals, chalky, wht/lt brn chert, foss frags/fusln, no vis por, no odor, ns.
SH: lt-m gry/green-gry/brn/maroon, some vry silty/sndy, slt carb, soft-firm, no odor, ns.

CFS @4008'
Stop/30"/60"

LS: crm/lt-m brn/lt gry, micro-m xtal, some silty/sndy, chalky, arg, crm/orange chert, min foss frags, no vis por, no odor, ns.

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

LS: wht/crm/lt gry, micro-med xtal, some vry silty/sandy, some chalky, some arg, min crm chert, foss frags, no vis por, no odor, ns.

LS: crm/lt brn/lt gry-brn/lt gry, micro-m xtal, some vry silty/sndy, some vry chalky/arg, foss frags, min ppt-f in-xtal por, no odor, ns.

SH: lt-m gry, silty, slt carb, pyritic, soft-firm, no odor, ns.

CFS @4040'
Stop/30"/60"

LS: crm/lt gry, micro-f xtal, some silty, some chalky, some pyritic, min crm/lt brn chert, foss frags, no vis por, no odor, ns.

LS: crm/lt brn/lt gry, micro-f xtal, some silty, some chalky, some pyritic, foss frags, no vis por, no odor, ns.

LS: crm/lt-m brn, micro-med xtal, some silty, some chalky, foss frags, no vis por, strong odor in 30min smpl, sltly less odor in 60min, no vis oil show.

SH: m-dk gry/blk/dk brn, silty, carb, soft-firm.

SH: lt-m gry, vry silty/sndy, carb, soft, (gd odor assumed from above).

CFS @4070'
Stop/30"/60"

LS: crm/lt-m brn, micro-med xtal, some vry sndy, some chalky, abund wht/crm/lt brn/orange chert, min foss frags, 3 pcs chert w/sfo in f-crs frac/in-xtal por, dull yel fluor, gd odor, sfo.

LS: crm/lt gry/lt brn, micro-m xtal, some silty/sndy, some chalky, wht/lt gry chert, min foss frags, 2 pcs w/sfo w/f-crs in-xtal por, dul yel fluor, gd odor, sfo.

LS: crm/lt-m brn, micro-m xtal, silty, some chalky, wht chert, min pyritic, foss frags, no vis por, no odor, ns.

CFS @4090'
Stop/30"/60"

SH: dk gry/blk, silty, slt carb, soft-firm, fissile.

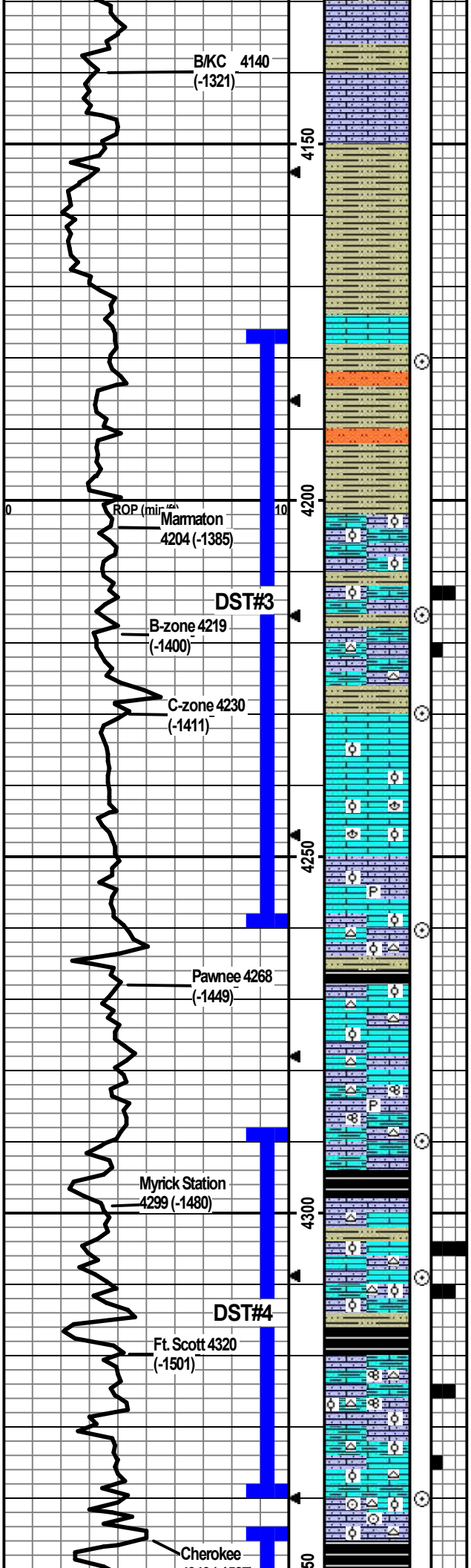
LS: crm/lt-m brn/lt gry-brn/gry mottling, micro-m xtal, some silty, some chalky, min wht chert, some pyritic, foss frags, no vis por, no odor, ns. SH: lt-dk gry/blk, some vry silty, carb, soft-firm.

LS: crm/lt-m brn/lt gry/gry mottling, micro-m xtal, some silty/sndy, some chalky, some arg, wht/lt gry chert, min pyritic, foss frags, no vis por, no odor, ns.

CFS @4115'
Stop/30"/60"

CFS @4120'
Stop/30"/60"

LS: crm/lt brn/lt gry, micro-m xtal w/2dary xtal, min silty, some chalky, foss frags, no vis por, no odor, ns.



LS: wht/crm/lt gry/lt brn, micro-m xtal w/min 2ndary xtal, some silty/sndy, some chalky, min foss frags, no vis por, no odor, ns. SH: lt-dk gry/red-brn, silty, carb, soft-firm.

LS: wht/crm/lt brn, micro-f xtal, silty/sndy, chalky, min foss frags, no vis por, no odor, ns.

SH: lt-m gry/lt-m red-brn/min mustard yel, vry silty/sndy, carb, soft-firm, no odor, ns.

LS: crm/lt brn/lt gry-brn, micro-f xtal w/some 2ndary xtal, some glassy, some chalky, min foss frags, some frac por, no odor, ns.

CFS @ 4180'
Stop/30"/60"

DST3) 4176-4260 Marmaton A, B and C - zones

15/30/30/30
1st) surface blow built to 1"; no BB.
2nd) surface blow built to 1/2"; no BB.
IFP 29-33#
ISIP 798#
FFP 36-40#
FSIP 429#
HP 2094-2087#
Recvd: 15' OCM (25%O, 75%M).

SH: lt-dk gry/gm-gry/lt-m red-brn, vry silty/sndy, carb, soft-hard, no odor, ns (Some Siltstn).

LS: crm/lt brn, micro-m xtal w/min crs w/some 2ndary xtals, vry silty/sndy, vry arg, chalky, foss frags/dense ool, no vis por, no odor, ns. SH: lt-dk gry/red-brn, vry silty.

LS: crm/lt brn/lt gry/mustard yel mottling, micro-med xtal, silty/sndy, arg, chalky, foss frags/dense ool, 8 pcs in 30min and 17 pcs in 60min w/sfo w/f-crs in-xtal por, dul yel fluor, no odor, sfo.

LS: crm/lt brn/lt gry, micro-med xtal, some silty/sndy, some chalky, some arg, some wht/lt orange chert, foss frags, 2 pcs w/sfo w/f-m in-xtal por, no odor, dull yel fluor, sfo.

CFS @ 4216'
Stop/30"/60"

SH: lt-dk gry/lt green-gry/red-brn, vry silty/sndy, slt carb, soft-firm, no odor, ns.

CFS @ 4230'
Stop/30"/60"

LS: crm/lt brn, micro-m xtal, some chalky, foss frags/dense ool/grainy, some frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-m xtal, some chalky, foss frags/dense ool/grainy/brac, min frac por, no odor, ns.

LS: crm/lt-m brn/lt gry-brn, micro-m xtal, some chalky, some ool pcs sandy, min pyritc, foss frags/dense ool/grainy, min ppt-f in-xtal por, no odor, ns.

CFS @ 4260'
Stop/30"/60"

LS: crm/, micro-med xtal, some silty/sndy, some chalky, gd amt wht/lt gry chert, foss frags/dense ool, no odor, ns.

SH: m-dk gry/blk/green-gry, vry silty/sndy, slt carb, soft-firm.

LS: crm/lt brn, micro-med xtal, some silty/sndy, chalky, gd amt wht/lt gry chert, foss frag/grainy/min dense ool, no vis por, no odor, ns.

LS: crm/lt-m brn, micro-m xtal, some silty/sndy/arg, some chalky, min pyritic, some lt gry/lt brn chert, foss frags/fusln, no vis por, no odor, ns.

CFS @ 4290'
Stop/30"/60

SH: m-dk gry/blk/brn/gry-green, some vry silty, soft-firm, fissle, no odor, ns.

LS: crm/lt-dk brn, micro-med xtal, some silty/sndy/arg, some chalky, wht/lt-dk gry chert, foss frags/min ool, 28 pcs w/sfo w/mostly ppt-f in-xtal por w/some m-crs por, yel fluor, gd odor, gd sfo.

CFS @ 4309'
Stop/30"/60"

DST4) 4288-4340 Myrick Station & Ft Scott

15/30/45/60
1st) SB built to 1 1/4"; no BB.
2nd) SB built to 4"; no BB.
IFP 28-35#
ISIP 400#
FFP 35-46#
FSIP 797#
HP 2150-2098#
Recvd: 60' GHOCM (17%G, 28%O, 55%M).

LS: crm/lt-m brn/lt gry, micro-med xtal, some vry chalky/arg, silty/sndy, foss frags/abund ool, wht/gry chert, 13 pcs w/sfo w/f-m in-ool por, dull yel fluor, gd odor, gd sfo.

SH: dk gry/blk/min med-gry/lt gry-gry, silty, slt carb, soft-firm, fissile.

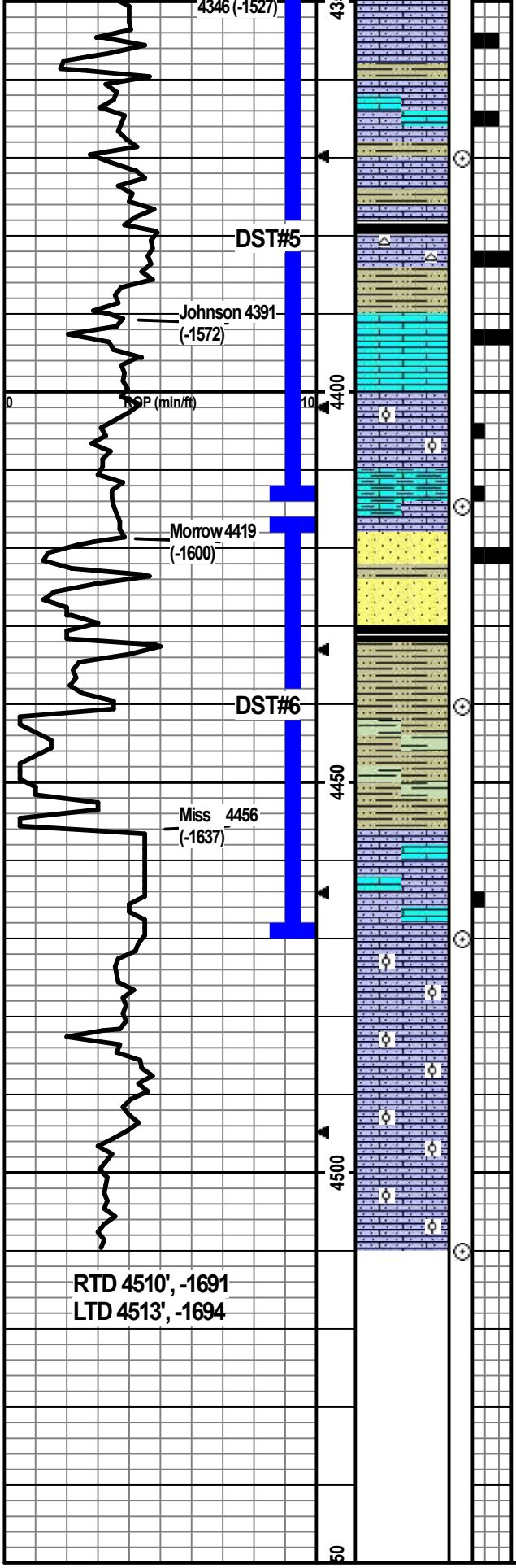
LS: crm/lt-m brn, micro-med xtal, vry silty, some vry chalky/arg, gry/brn chert, foss frags/ool/fusln, 13 pcs w/sfo w/f-m in-xtal/in-ool por, gd odor, dul yel fluor, gd sfo.

LS: crm/lt-m brn/lt gry, micro-m xtal, some silty/sndy, some chalky/arg, some wht chert, foss frags/ool/min fusln, 4 ool pcs w/sfo w/f-m in-ool por, slt odor, sfo.

LS: crm/lt-m brn, micro-med xtal, silty/sndy, some chalky, lt brn chert, foss frags/dense ool/crin, 2 pcs w/sfo w/ppt-f in-xtal por, slt odor, ssfo.

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

CFS @ 4340'
Stop/30"/60"



LS: crm/lt-m brn, micro-m xtal, silty/chalky, foss frags/grainy, 15 pcs w/sfo w/mostly ppt-f in-xtal por w/min m-crs por, ppt-f cuts on break, yel fluor, gd odor, sfo.

LS: crm/lt brn, micro-m xtal, some silty/chalky, foss frags, 14 pcs w/sfo w/ppt-vug in-xtal por, yel fluor, gd odor, sfo.

CFS @ 4370'
Stop/30"/60

SH: lt-dk gry/blk, vry silty/sndy, carb, soft-firm.
LS: crm/lt-m brn/lt gry, micro-med xtal, some vry silty/sndy, some chalky, foss frags, min frac por, no odor, ns.

LS: crm/lt brn, micro-m xtal, some silty/sndy, brn chert, foss frags/min crin, 35 pcs w/sfo w/f-vug in-xtal por, dul yel fluor, stg odor, gd sfo.

DST5) 4344-4415 Cherokee & Johnson

15/30/30/30
1st) SB built to 3/4"; no BB.
2nd) No blow; no BB.
IFP 28-35#
ISIP 1091#
FFP 37-45#
FSIP 996#
HP 2173-2124#
Recvd: 20' OSM (3%O, 97%M).

SH: lt-dk gry/gry-green/maroon/red-brn, vry silty/sndy, carb, some vry sndy is friable.

LS: wht/crm/lt brn, micro-m xtal, some chalky, foss frags, 32 pcs w/sfo w/f-vug in-xtal por, dul yel fluor, gd odor, gd sfo.

LS: crm/lt brn, micro-m xtal, some vry silty/sndy, chalky, foss frags/min dense ool, 4 pcs w/staining and sfo, ppt-f in-xtal por, dul yel fluor, slt odor, sfo.

LS: crm/lt-m brn, micro-m xtal, some vry silty/sndy/chalky/arg, min foss frags, 2 pcs w/sfo w/ppt-vf in-xtal por, slt odor, slt sfo.

CFS @ 4415'
Stop/30"/60"

SS: wht/lt gry, vf-f, sr-wr, pred qtz, min arg, opaque, hard-friable, stg odor, 40-50% of SS has sfo, stream yel cut on break, stg sfo.

SH: lt-dk gry/dk brn/min mustard yel/maroon/gry-green, vry silty/sndy, carb, soft-firm.

SH: lt-dk gry/lt green-gry/brn, vry silty/sndy, carb, soft-firm, fissile. Flood of SS w/sfo from above, stg odor.

CFS @ 4440'
Stop/30"/60"

SH: lt-dk gry/blk/brn/red-brn/green-gry, some vry silty/sndy, carb, some pryitic, firm; Cont SS w/sfo from above, gd odor.

LS: crm/lt brn/lt gry, micro-m xtal, some silty/sndy, some chalky, foss frags, no vis por, ns in LS; cont SS w/sfo and SH from above, gd odor.

LS: crm/lt brn, micro-m xtal w/some 2ndary xtal, some silty/sndy, pyritic, foss frags, 1 pce (poss from above) w/sfo, f-crs por; Cont SS/SH from above, gd odor.

CFS @ 4470'
Stop/30"/60"

LS: wht/crm, f-m xtal, vry sndy, chalky, dense fn ool, min frac por, no odor, ns.

DST6) 4416-4470 Lower Johnson, Morrow, Upper Miss

15/30/45/90
1st) Blow built to BOB in 13min; no BB.
2nd) Surface blow built to BOB in 16min; no BB.
IFP 41-153#
ISIP 1167#
FFP 146-290#
FSIP 1171#
HP 2153-2109#
Recvd: 640' MCW (20%M, 80%W).

LS: wht/crm/lt gry-brn, micro-m xtal, vry sndy, chalky, dense fn ool, no vis por, no odor, ns.

LS: wht/crm/lt brn/min mustard yel, f-m xtal, vry sndy, chalky, dense ool/min foss frags, no vis por, no odor, ns.

LS: wht/crm/lt gry-brn, micro-m xtal, vry sndy, chalky, dense ool, no vis por, no odor, ns.

TD @ 4510'

CFS @ 4510'
Stop/30"/60"
CTCH 1.5 hr, TOH for logging.

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67517 **DST#: 1**

Test Start: 2021.04.23 @ 05:15:00

GENERAL INFORMATION:

Formation: **Lansing " C "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:45:00
Time Test Ended: 11:39:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Martine Salinas
Unit No: 82

Interval: 3836.00 ft (KB) To 3860.00 ft (KB) (TVD)
Total Depth: 3860.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

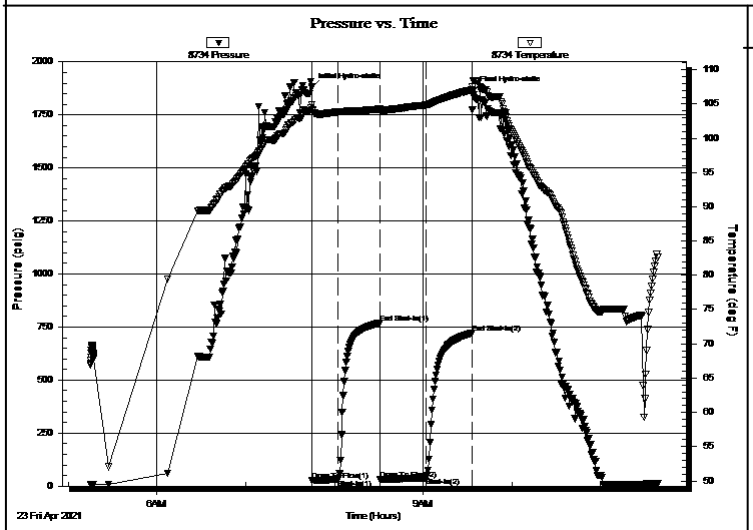
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 39.05 psig @ 3837.00 ft (KB)
Start Date: 2021.04.23 End Date: 2021.04.23
Start Time: 05:15:01 End Time: 11:39:00

Capacity: 8000.00 psig
Last Calib.: 2021.04.23
Time On Btm: 2021.04.23 @ 07:44:50
Time Off Btm: 2021.04.23 @ 09:33:39

TEST COMMENT: 15-IF-S.blow built to 3/4"
30-ISI-No return
30-FF-S.blow @ 17 mins built to 1/4"
30-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1880.32	104.89	Initial Hydro-static
1	26.59	104.13	Open To Flow (1)
18	31.94	103.83	Shut-In(1)
46	768.96	104.27	End Shut-In(1)
47	31.09	103.95	Open To Flow (2)
78	39.05	104.85	Shut-In(2)
109	722.13	107.03	End Shut-In(2)
109	1862.63	108.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud W/ Oil spots	0.05

Gas Rates

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

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67517 **DST#: 1**

Test Start: 2021.04.23 @ 05:15:00

GENERAL INFORMATION:

Formation: **Lansing " C "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:45:00
Time Test Ended: 11:39:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Martine Salinas
Unit No: 82

Interval: 3836.00 ft (KB) To 3860.00 ft (KB) (TVD)
Total Depth: 3860.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

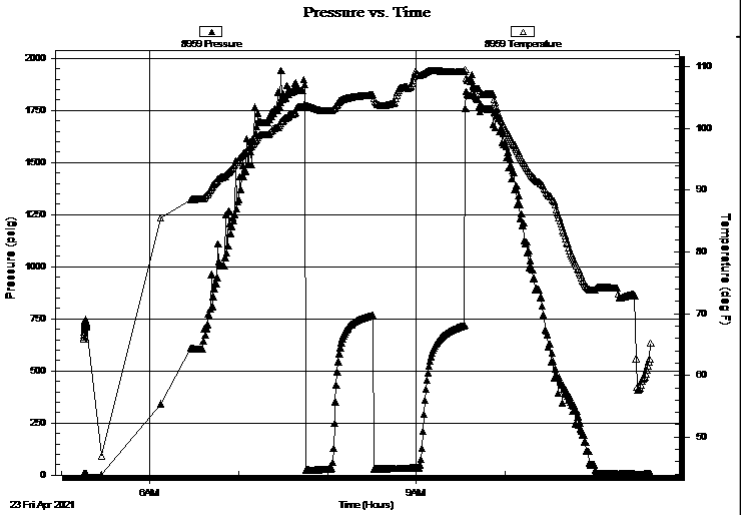
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 3837.00 ft (KB)
Start Date: 2021.04.23 End Date: 2021.04.23
Start Time: 05:15:01 End Time: 11:39:00

Capacity: 8000.00 psig
Last Calib.: 2021.04.23
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF-S.blow built to 3/4"
30-ISI-No return
30-FF-S.blow @ 17 mins built to 1/4"
30-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% Mud W/ Oil spots	0.05

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67517 **DST#: 1**

Test Start: 2021.04.23 @ 05:15:00

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

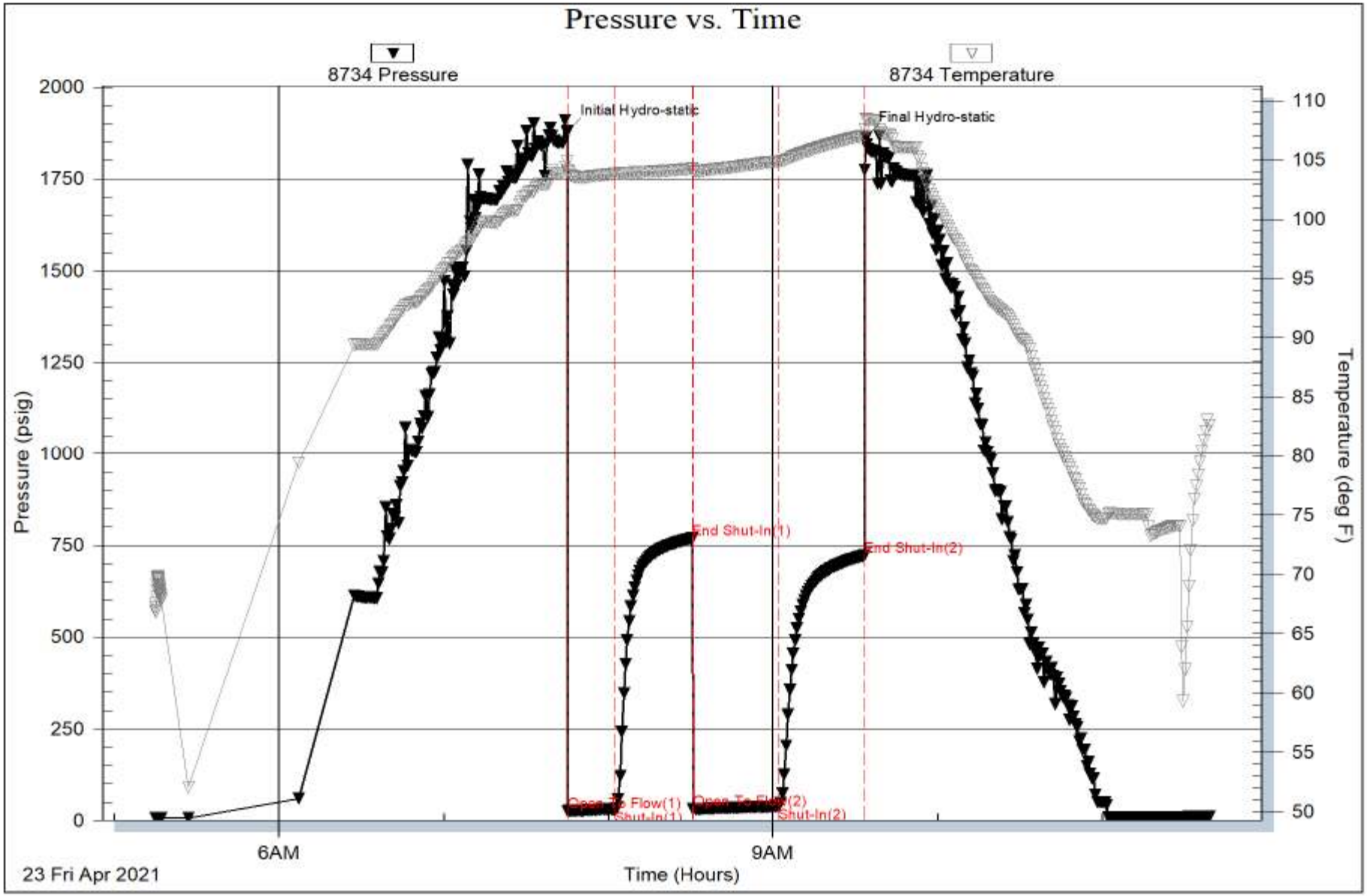
Recovery Table

Length ft	Description	Volume bbl
10.00	100% Mud W/ Oil spots	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

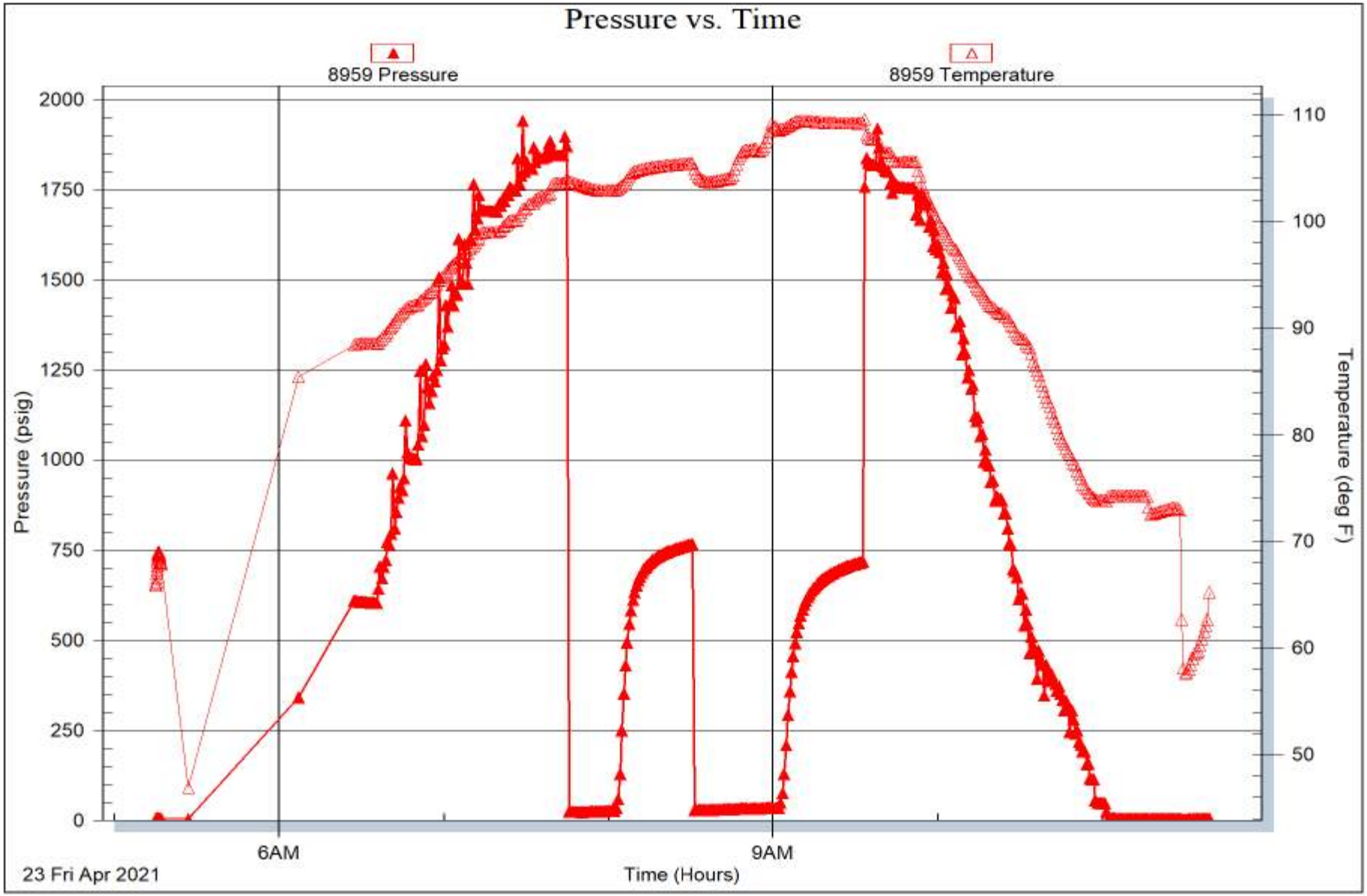
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8734 **Outside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 67517 Printed: 2021.04.23 @ 12:09:21

Serial #: 8959 **Inside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 1



DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67518 **DST#: 2**

Test Start: 2021.04.23 @ 21:41:00

GENERAL INFORMATION:

Formation: **Lansing " E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:41:40
Time Test Ended: 04:40:20

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 3892.00 ft (KB) To 3914.00 ft (KB) (TVD)
Total Depth: 3914.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

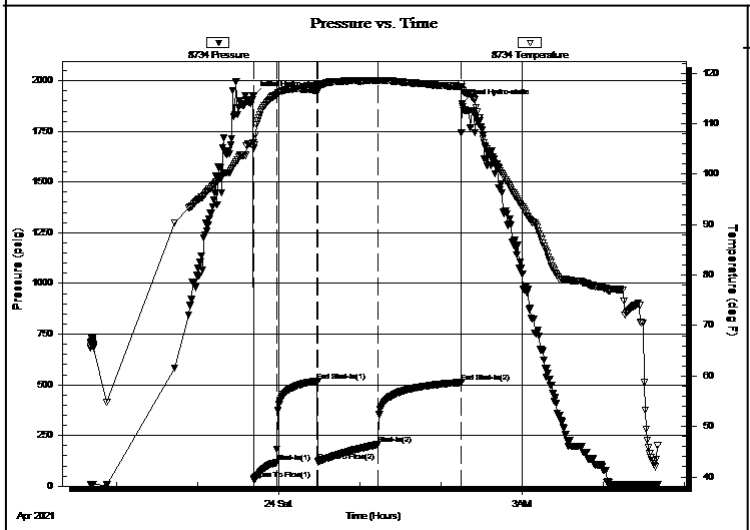
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 205.95 psig @ 3893.00 ft (KB)
Start Date: 2021.04.23 End Date: 2021.04.24
Start Time: 21:41:01 End Time: 04:40:20

Capacity: 8000.00 psig
Last Calib.: 2021.04.24
Time On Btm: 2021.04.23 @ 23:41:30
Time Off Btm: 2021.04.24 @ 02:15:50

TEST COMMENT: 15-IF-1/2" blow built to 10 1/4"
30-ISI-No return
45-FF-S.blow built to B.O.B (11 inches) @ 26 mins (blow increased to 17 1/2"
60-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1924.03	106.12	Initial Hydro-static
1	34.69	105.15	Open To Flow (1)
17	117.00	115.76	Shut-In(1)
47	518.97	116.57	End Shut-In(1)
48	120.58	116.33	Open To Flow (2)
93	205.95	118.53	Shut-In(2)
154	511.71	117.35	End Shut-In(2)
155	1885.16	116.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
390.00	OSMW 3%O, 5%M, 92%W	3.90
10.00	CGO 12%G, 88%O	0.14

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67518 **DST#: 2**

Test Start: 2021.04.23 @ 21:41:00

GENERAL INFORMATION:

Formation: **Lansing " E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:41:40
Time Test Ended: 04:40:20

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 3892.00 ft (KB) To 3914.00 ft (KB) (TVD)
Total Depth: 3914.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

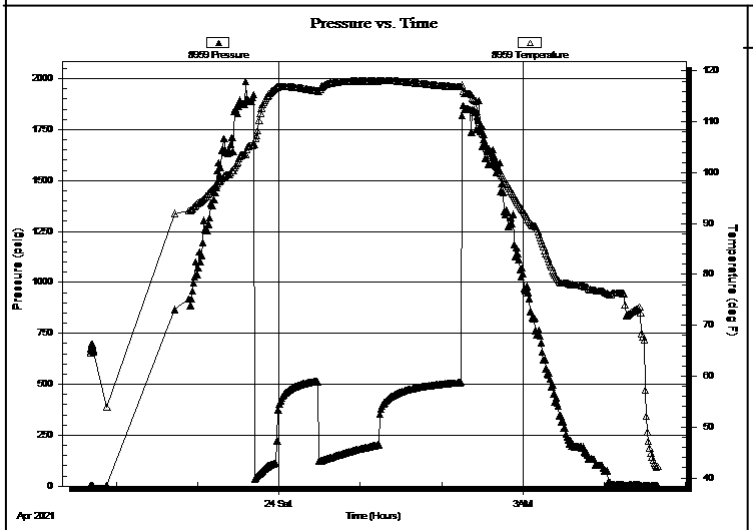
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 3893.00 ft (KB)
Start Date: 2021.04.23 End Date: 2021.04.24
Start Time: 21:41:01 End Time: 04:40:10

Capacity: 8000.00 psig
Last Calib.: 2021.04.24
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF-1/2" blow built to 10 1/4"
30-ISI-No return
45-FF-S.blow built to B.O.B (11 inches) @ 26 mins (blow increased to 17 1/2"
60-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
390.00	OSMW 3%O, 5%M, 92%W	3.90
10.00	CGO 12%G, 88%O	0.14

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67518 **DST#: 2**

Test Start: 2021.04.23 @ 21:41:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	34 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	30000 ppm
Viscosity:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1500.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
390.00	OSMW 3%O, 5%M, 92%W	3.904
10.00	CGO 12%G, 88%O	0.140

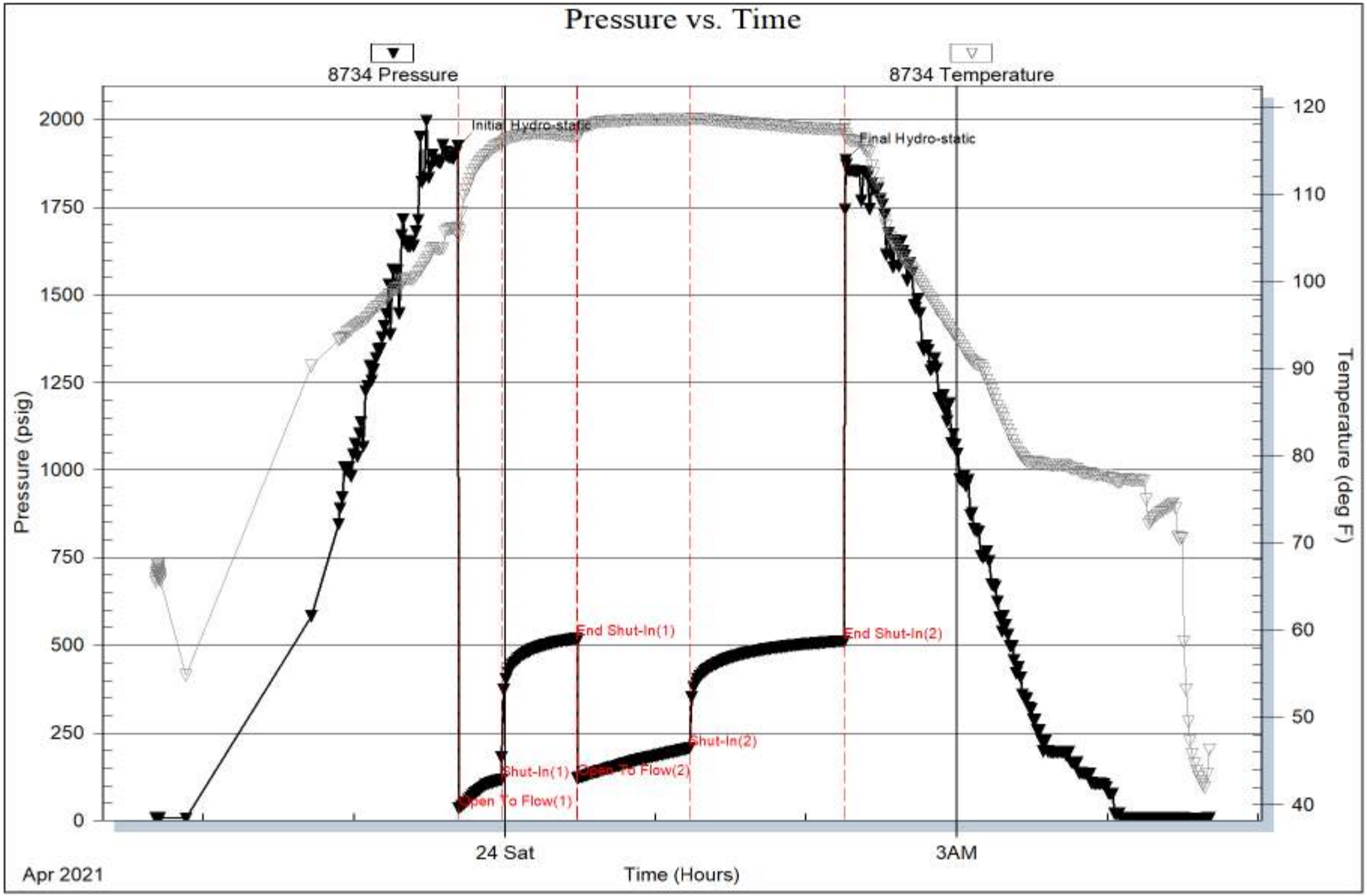
Total Length: 400.00 ft Total Volume: 4.044 bbl

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

Laboratory Name: Laboratory Location:

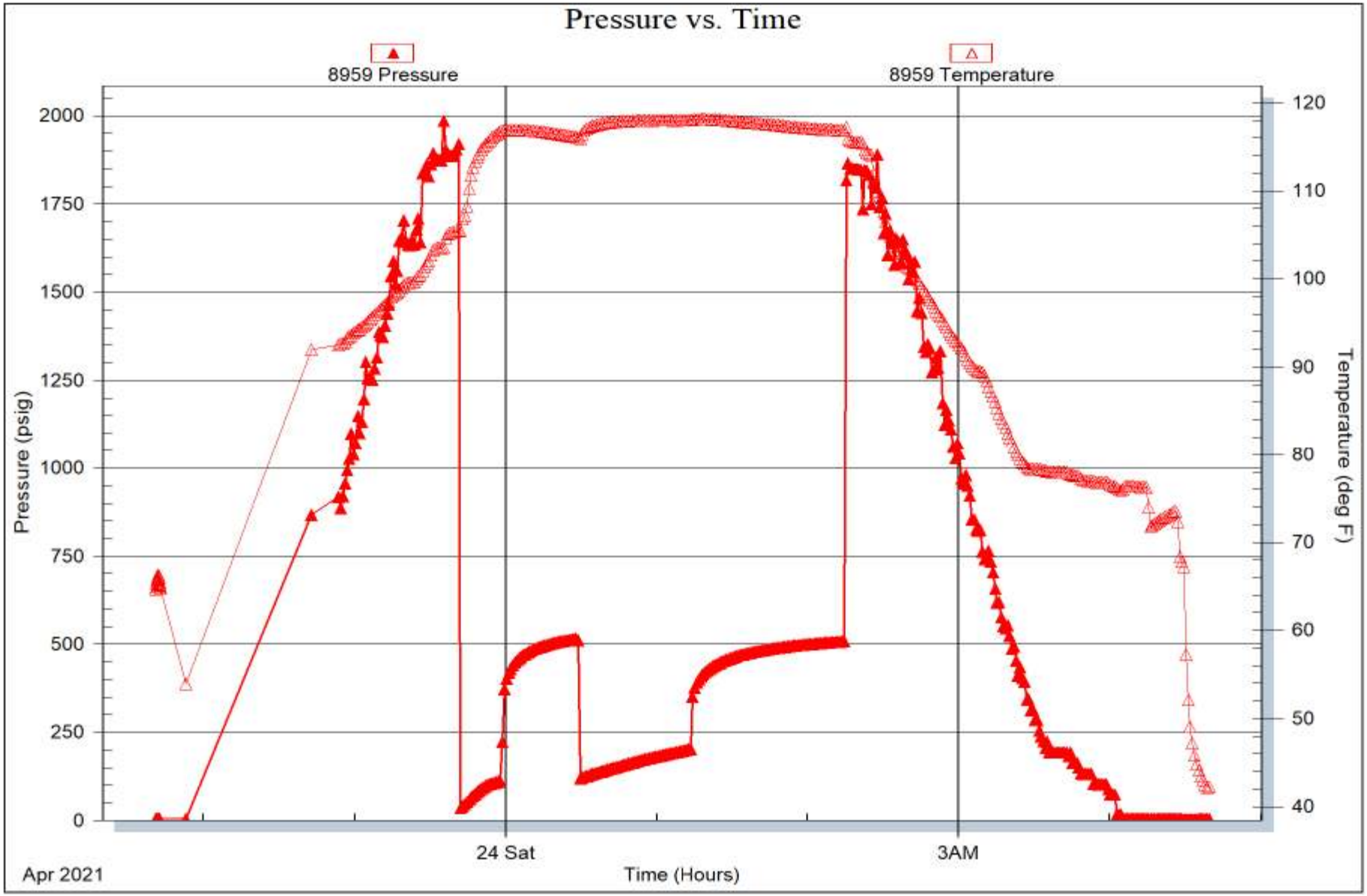
Recovery Comments: Gravity of oil = 34.0 @ 60 degs
RW= .365 @45.1 degs = 30,000 PPM

Serial #: 8734 **Outside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 67518 Printed: 2021.04.24 @ 07:26:17

Serial #: 8959 **Inside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 67518 Printed: 2021.04.24 @ 07:26:17

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67519 **DST#: 3**

Test Start: 2021.04.25 @ 22:35:00

GENERAL INFORMATION:

Formation: **Marmaton " A - C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:54:10
Time Test Ended: 05:19:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4176.00 ft (KB) To 4260.00 ft (KB) (TVD)
Total Depth: 4260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

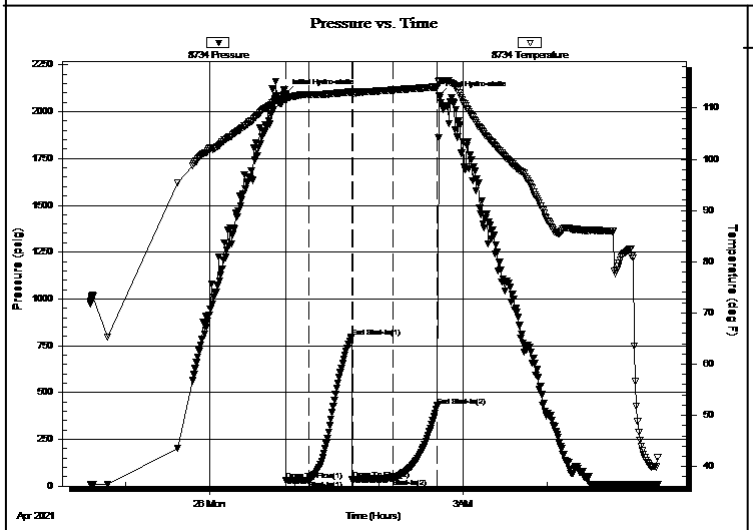
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 40.16 psig @ 4177.00 ft (KB)
Start Date: 2021.04.25 End Date: 2021.04.26
Start Time: 22:35:01 End Time: 05:19:10

Capacity: 8000.00 psig
Last Calib.: 2021.04.26
Time On Btm: 2021.04.26 @ 00:54:00
Time Off Btm: 2021.04.26 @ 02:43:10

TEST COMMENT: 15-IF- S.blow built to 1"
30-ISI-No return
30-FF-S.blow built to 1/2"
30-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.48	112.36	Initial Hydro-static
1	29.41	111.45	Open To Flow (1)
17	33.36	112.66	Shut-In(1)
47	797.79	113.12	End Shut-In(1)
48	35.93	112.78	Open To Flow (2)
76	40.16	113.49	Shut-In(2)
108	429.27	114.12	End Shut-In(2)
110	2087.33	115.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 25%O, 75%M	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67519 **DST#: 3**

Test Start: 2021.04.25 @ 22:35:00

GENERAL INFORMATION:

Formation: **Marmaton " A - C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:54:10
Time Test Ended: 05:19:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4176.00 ft (KB) To 4260.00 ft (KB) (TVD)
Total Depth: 4260.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

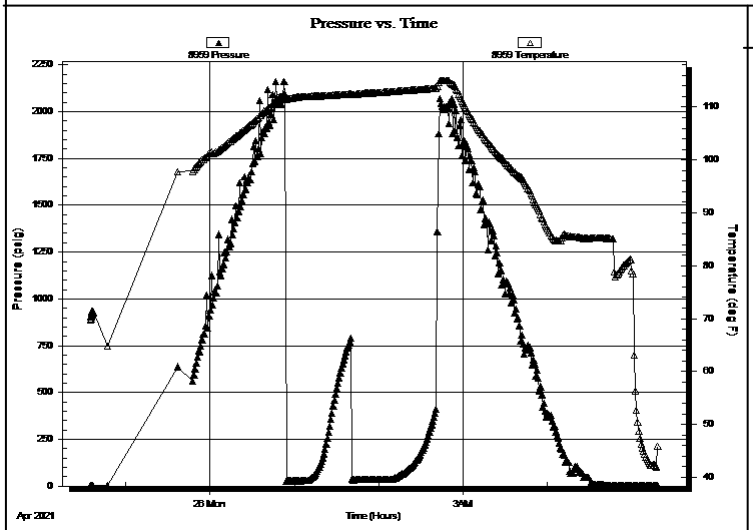
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4177.00 ft (KB)
Start Date: 2021.04.25 End Date: 2021.04.26
Start Time: 22:35:01 End Time: 05:19:10

Capacity: 8000.00 psig
Last Calib.: 2021.04.26
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF- S.blow built to 1"
30-ISI-No return
30-FF-S.blow built to 1/2"
30-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 25%O, 75%M	0.07

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67519 **DST#: 3**

Test Start: 2021.04.25 @ 22:35:00

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:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

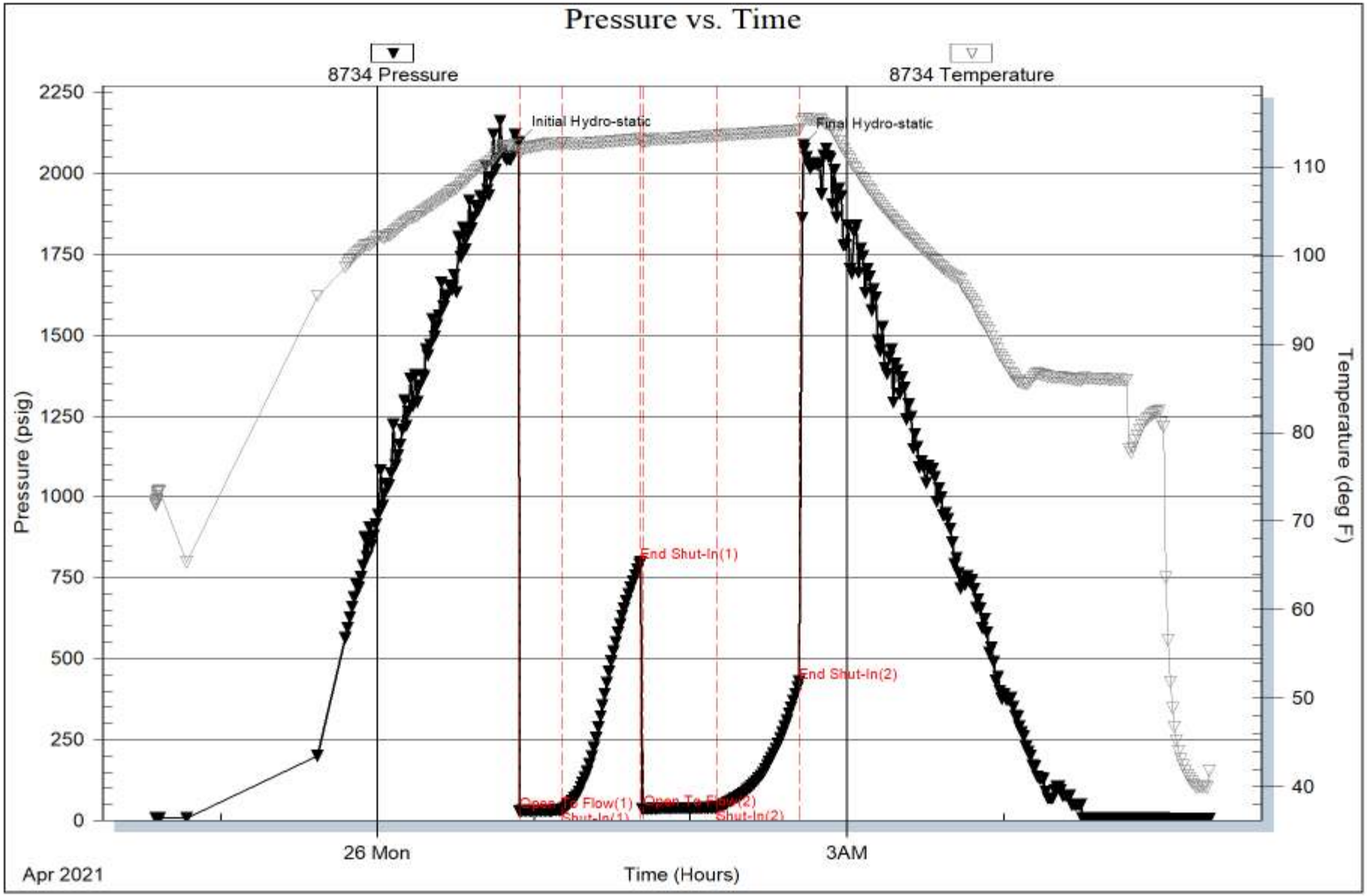
Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 25%O, 75%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

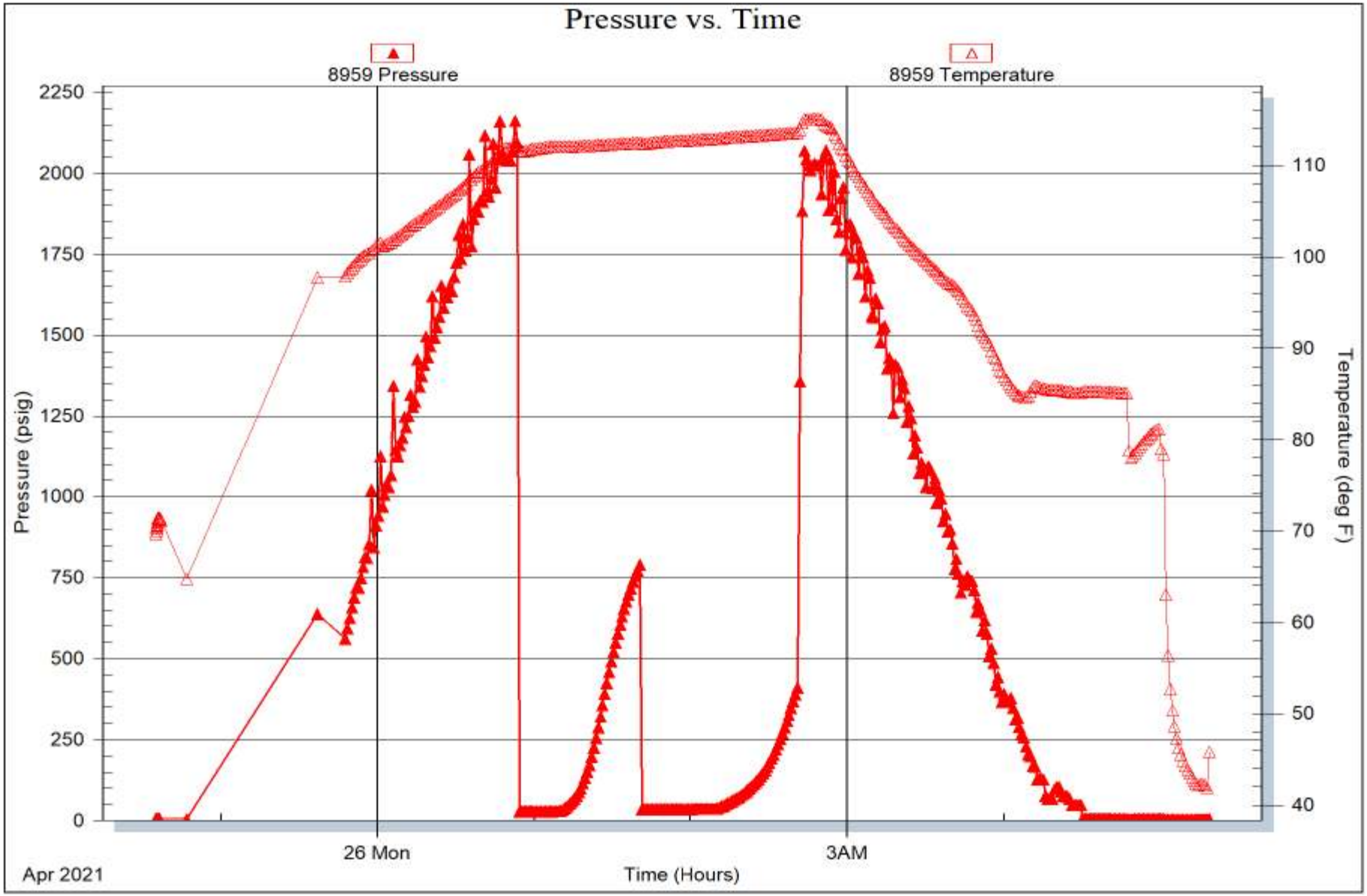
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8734 **Outside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 67519 Printed: 2021.04.26 @ 07:25:54

Serial #: 8959 **Inside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 67519 Printed: 2021.04.26 @ 07:25:54

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67520 **DST#: 4**

Test Start: 2021.04.26 @ 19:25:00

GENERAL INFORMATION:

Formation: **"Myric St - Ft.Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:45:20
Time Test Ended: 02:55:20

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4288.00 ft (KB) To 4340.00 ft (KB) (TVD)
Total Depth: 4340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

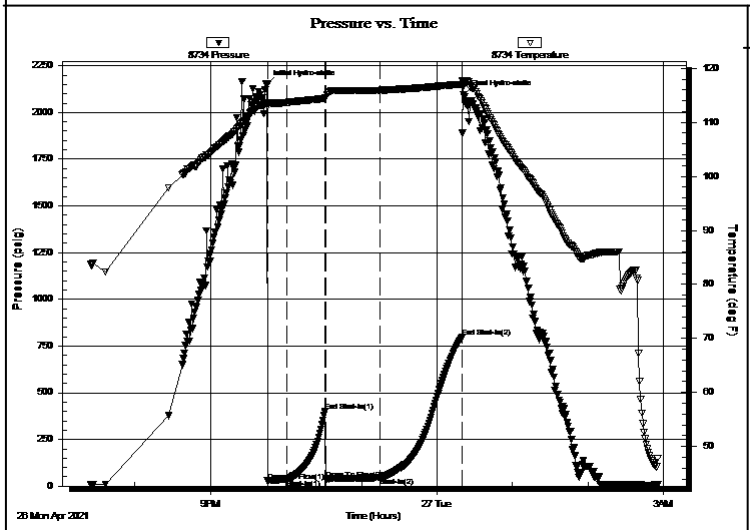
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 45.80 psig @ 4289.00 ft (KB)
Start Date: 2021.04.26 End Date: 2021.04.27
Start Time: 19:25:01 End Time: 02:55:20

Capacity: 8000.00 psig
Last Calib.: 2021.04.27
Time On Btm: 2021.04.26 @ 21:45:10
Time Off Btm: 2021.04.27 @ 00:21:09

TEST COMMENT: 15-IF-S.blow built to 1 1/4"
30-ISI-No return
45-FF-S.blow built to 4"
60-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2150.05	113.57	Initial Hydro-static
1	27.88	112.86	Open To Flow (1)
16	34.91	113.65	Shut-In(1)
46	400.31	114.45	End Shut-In(1)
47	35.05	114.56	Open To Flow (2)
90	45.80	115.93	Shut-In(2)
155	797.34	117.04	End Shut-In(2)
156	2097.57	117.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 17%G, 28%O, 55%M	0.30
0.00	Heavy oil in tool	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67520 **DST#: 4**

Test Start: 2021.04.26 @ 19:25:00

GENERAL INFORMATION:

Formation: **"Myric St - Ft.Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:45:20
Time Test Ended: 02:55:20

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4288.00 ft (KB) To 4340.00 ft (KB) (TVD)
Total Depth: 4340.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

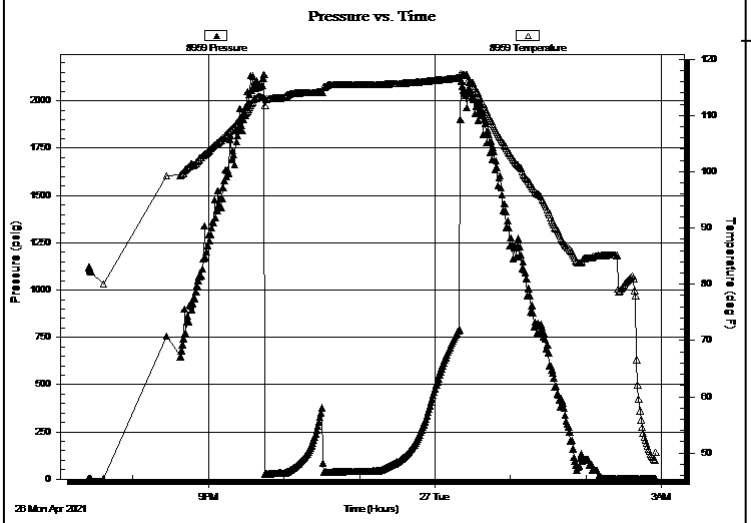
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4289.00 ft (KB)
Start Date: 2021.04.26 End Date: 2021.04.27
Start Time: 19:25:01 End Time: 02:55:20

Capacity: 8000.00 psig
Last Calib.: 2021.04.27
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF-S.blow built to 1 1/4"
30-ISI-No return
45-FF-S.blow built to 4"
60-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GHOCM 17%G, 28%O, 55%M	0.30
0.00	Heavy oil in tool	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67520 **DST#: 4**

Test Start: 2021.04.26 @ 19:25:00

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

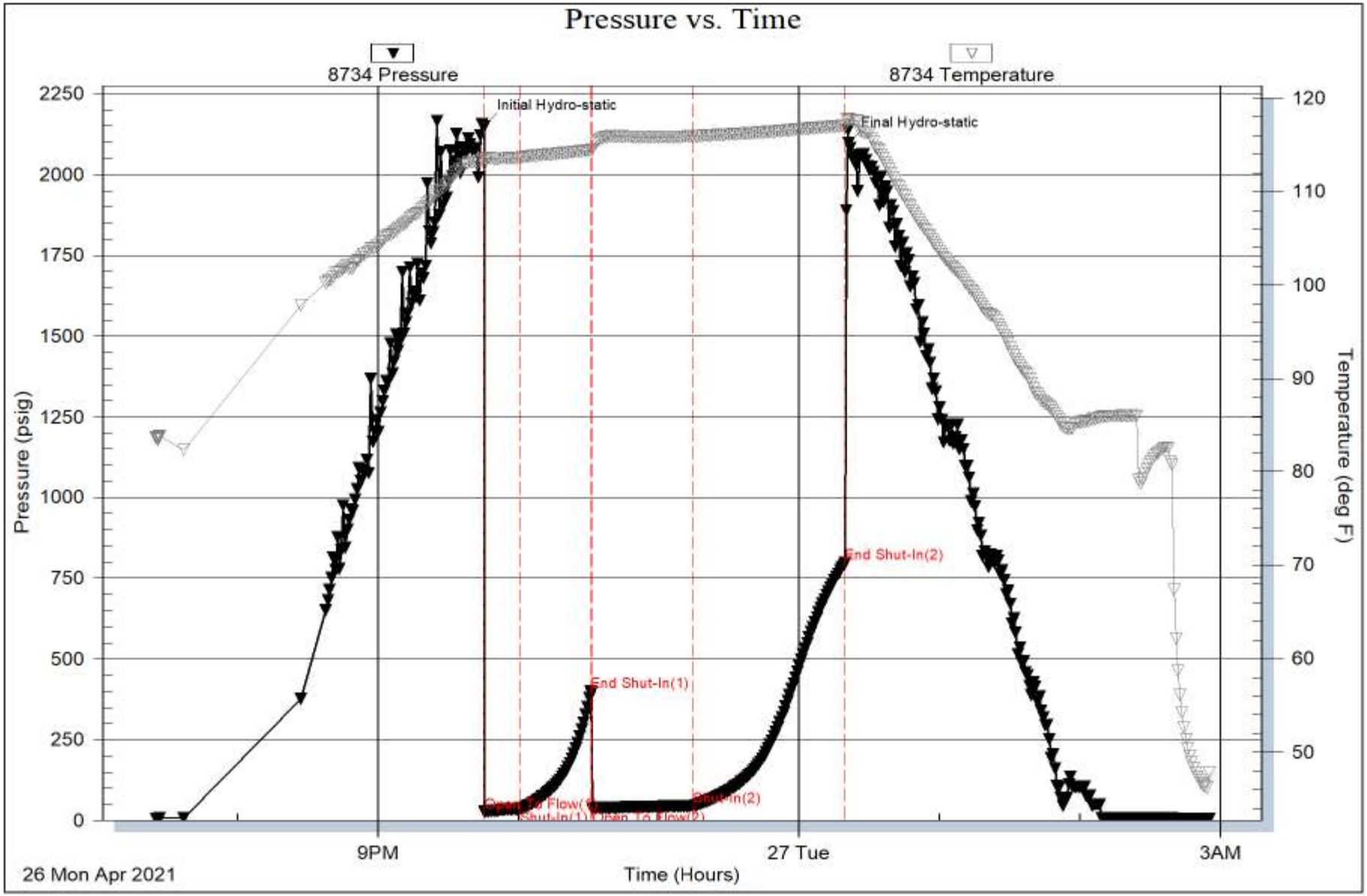
Recovery Table

Length ft	Description	Volume bbl
60.00	GHOCM 17%G, 28%O, 55%M	0.295
0.00	Heavy oil in tool	0.000

Total Length: 60.00 ft Total Volume: 0.295 bbl

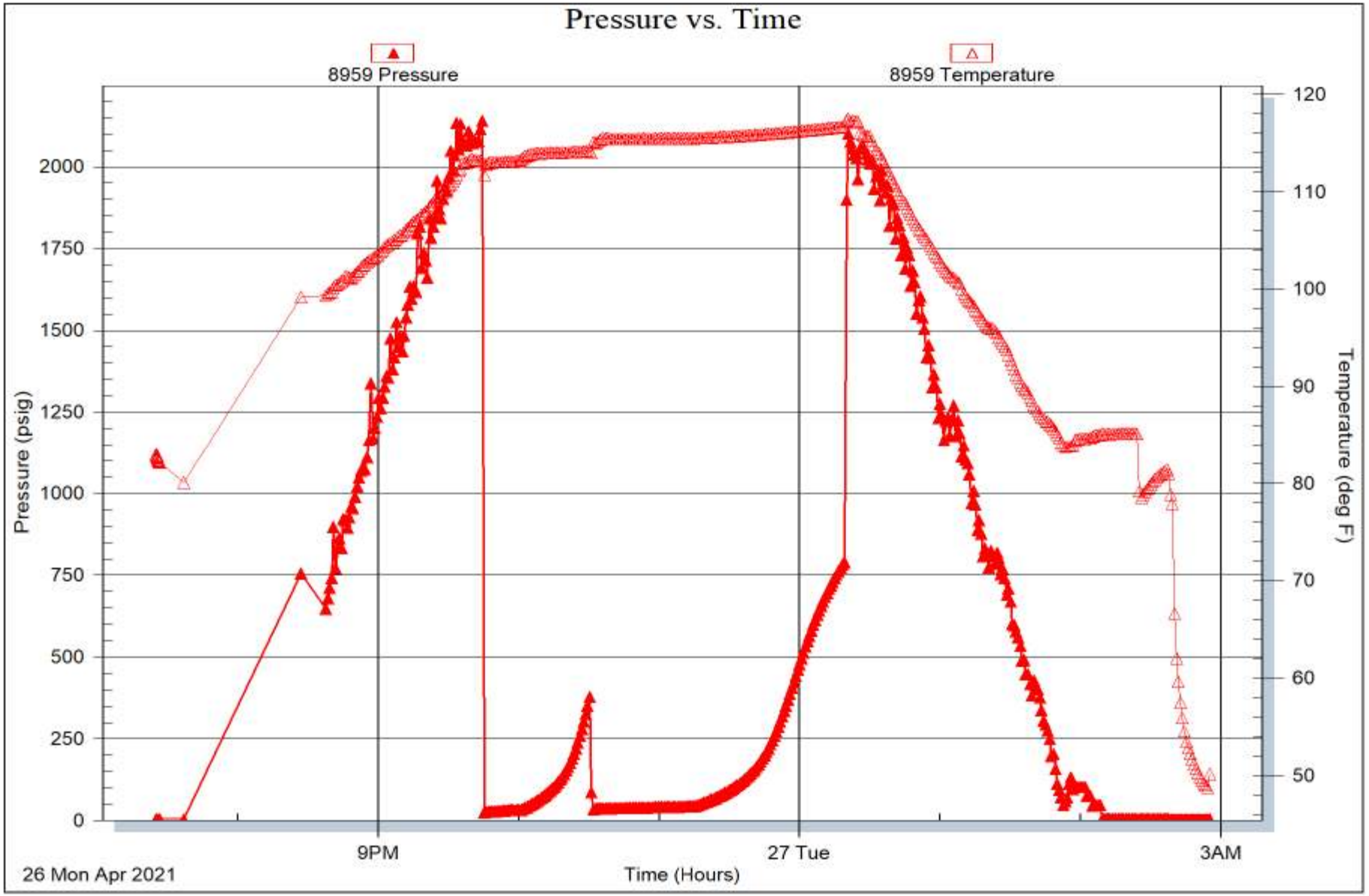
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8734 **Outside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 67520 Printed: 2021.04.27 @ 07:11:14

Serial #: 8959 **Inside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 67520 Printed: 2021.04.27 @ 07:11:14

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67521 **DST#: 5**

Test Start: 2021.04.27 @ 16:05:00

GENERAL INFORMATION:

Formation: **" Cheokee-Johnson"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:25:50
Time Test Ended: 00:04:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4344.00 ft (KB) To 4415.00 ft (KB) (TVD)
Total Depth: 4415.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

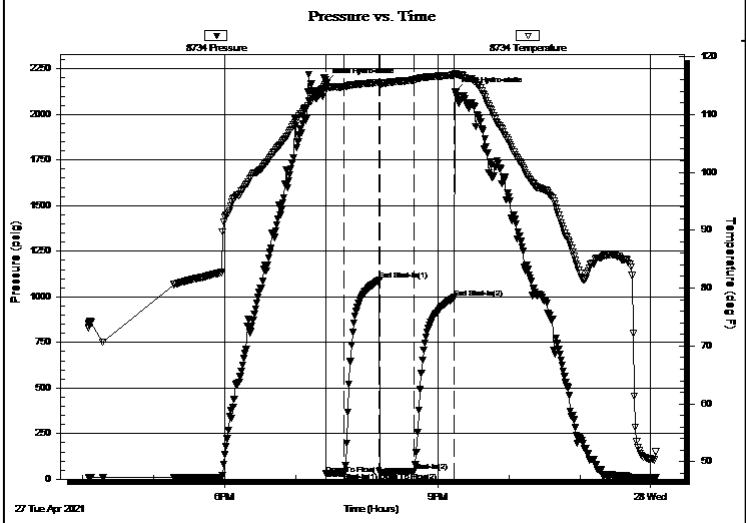
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 44.59 psig @ 4345.00 ft (KB)
Start Date: 2021.04.27 End Date: 2021.04.28
Start Time: 16:05:01 End Time: 00:04:40

Capacity: 8000.00 psig
Last Calib.: 2021.04.28
Time On Btm: 2021.04.27 @ 19:25:40
Time Off Btm: 2021.04.27 @ 21:14:50

TEST COMMENT: 15-IF-S.blow built to 3/4"
30-ISI-No return
45-FF-No blow
60-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2173.11	115.25	Initial Hydro-static
1	28.11	114.36	Open To Flow (1)
16	35.24	114.82	Shut-In(1)
45	1090.66	115.54	End Shut-In(1)
46	36.52	115.01	Open To Flow (2)
74	44.59	115.98	Shut-In(2)
109	996.03	116.81	End Shut-In(2)
110	2124.08	117.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 3%O, 97%M	0.10

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67521 **DST#: 5**

Test Start: 2021.04.27 @ 16:05:00

GENERAL INFORMATION:

Formation: **" Cheokee-Johnson"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:25:50
Time Test Ended: 00:04:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4344.00 ft (KB) To 4415.00 ft (KB) (TVD)
Total Depth: 4415.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

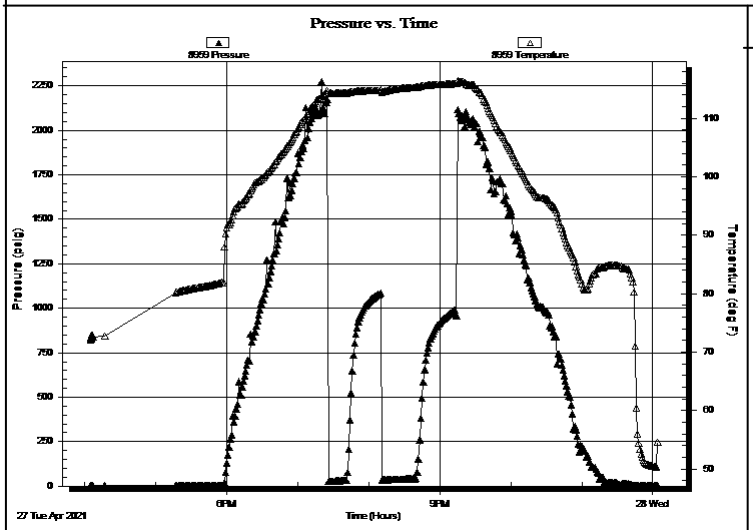
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4345.00 ft (KB)
Start Date: 2021.04.27 End Date: 2021.04.28
Start Time: 16:05:01 End Time: 00:04:40

Capacity: 8000.00 psig
Last Calib.: 2021.04.28
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF-S.blow built to 3/4"
30-ISI-No return
45-FF-No blow
60-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	OSM 3%O, 97%M	0.10

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67521 **DST#: 5**

Test Start: 2021.04.27 @ 16:05:00

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3100.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OSM 3%O, 97%M	0.098

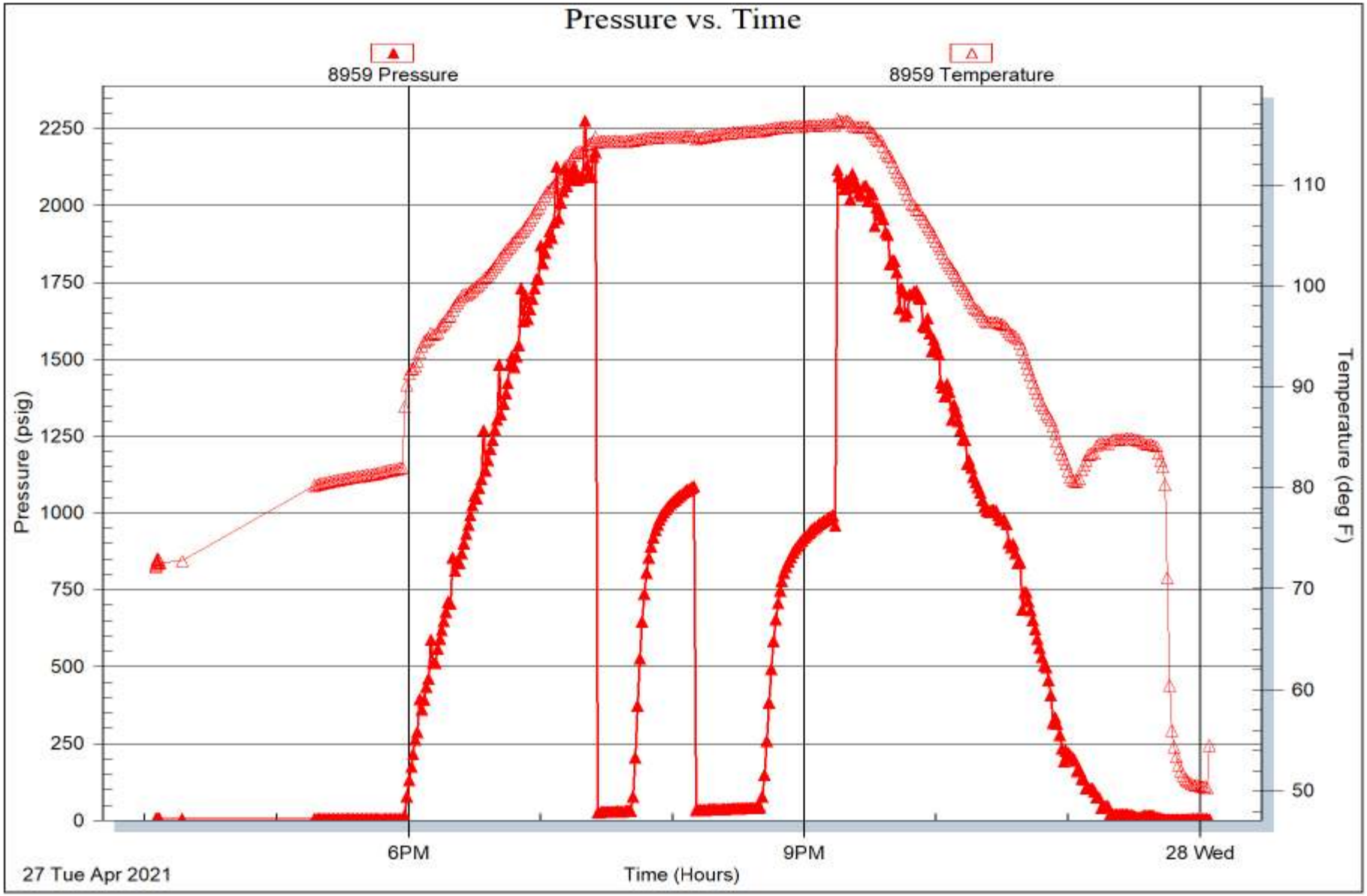
Total Length: 20.00 ft Total Volume: 0.098 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8959 **Inside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 5



Trilobite Testing, Inc Ref. No: 67521 Printed: 2021.04.28 @ 07:56:07

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67522 **DST#: 6**

Test Start: 2021.04.28 @ 11:40:00

GENERAL INFORMATION:

Formation: **Johnson/Morrow/Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:47:40
Time Test Ended: 20:41:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4416.00 ft (KB) To 4470.00 ft (KB) (TVD)
Total Depth: 4470.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

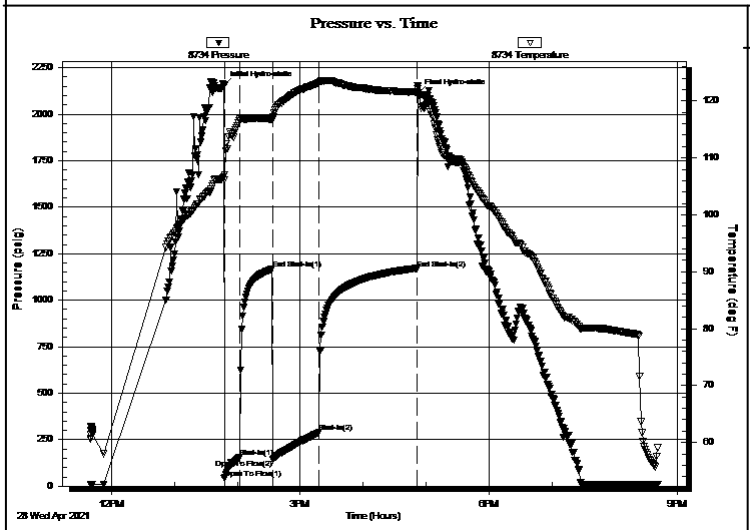
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8734 **Outside**

Press@RunDepth: 289.56 psig @ 4417.00 ft (KB)
Start Date: 2021.04.28 End Date: 2021.04.28
Start Time: 11:40:01 End Time: 20:41:00

Capacity: 8000.00 psig
Last Calib.: 2021.04.28
Time On Btm: 2021.04.28 @ 13:47:20
Time Off Btm: 2021.04.28 @ 16:52:09

TEST COMMENT: 15-IF-Blow built to B.O.B(11 inches) @ 13 mins (blow increased to 12 1/2")
30-ISI-No return
45-FF-S.blow built to (11 inches) @ 16 mins (blow increased to 27")
90-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2153.46	106.68	Initial Hydro-static
1	41.27	106.12	Open To Flow (1)
16	153.44	116.81	Shut-In(1)
46	1167.28	116.82	End Shut-In(1)
47	145.66	116.82	Open To Flow (2)
91	289.56	123.28	Shut-In(2)
184	1170.86	121.54	End Shut-In(2)
185	2108.73	122.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
640.00	MCW 20%M, 80%W	7.41

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67522 **DST#: 6**

Test Start: 2021.04.28 @ 11:40:00

GENERAL INFORMATION:

Formation: **Johnson/Morrow/Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:47:40
Time Test Ended: 20:41:00

Test Type: Conventional Bottom Hole (Reset)
Tester: Martine Salinas
Unit No: 82

Interval: 4416.00 ft (KB) To 4470.00 ft (KB) (TVD)
Total Depth: 4470.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

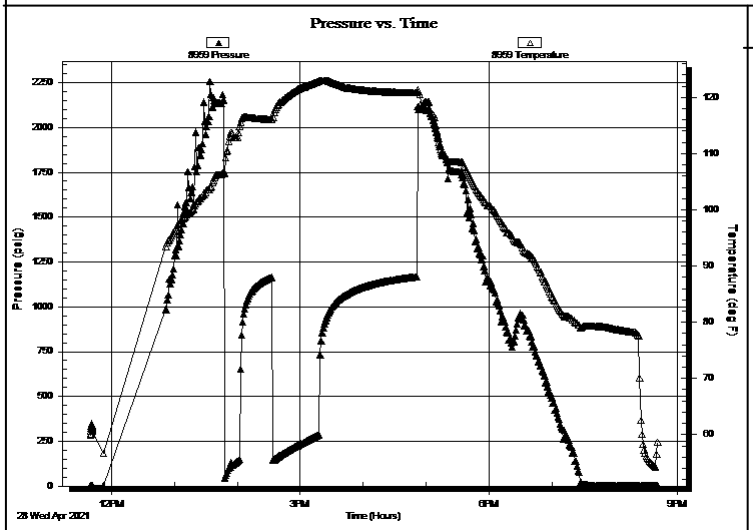
Reference Elevations: 2819.00 ft (KB)
2807.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8959 **Inside**

Press@RunDepth: psig @ 4417.00 ft (KB)
Start Date: 2021.04.28 End Date: 2021.04.28
Start Time: 11:40:01 End Time: 20:41:00

Capacity: 8000.00 psig
Last Calib.: 2021.04.28
Time On Btm:
Time Off Btm:

TEST COMMENT: 15-IF-Blow built to B.O.B(11 inches) @ 13 mins (blow increased to 12 1/2")
30-ISI-No return
45-FF-S.blow built to (11 inches) @ 16 mins (blow increased to 27")
90-FSI-No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
640.00	MCW 20%M, 80%W	7.41

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil INC

202 W. Main St
Salem, IL 62881

ATTN: Kent Matson

9-14-32 Logan, KS

Ottley #2-9

Job Ticket: 67522 **DST#: 6**

Test Start: 2021.04.28 @ 11:40:00

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:	7500 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
640.00	MCW 20%M, 80%W	7.411

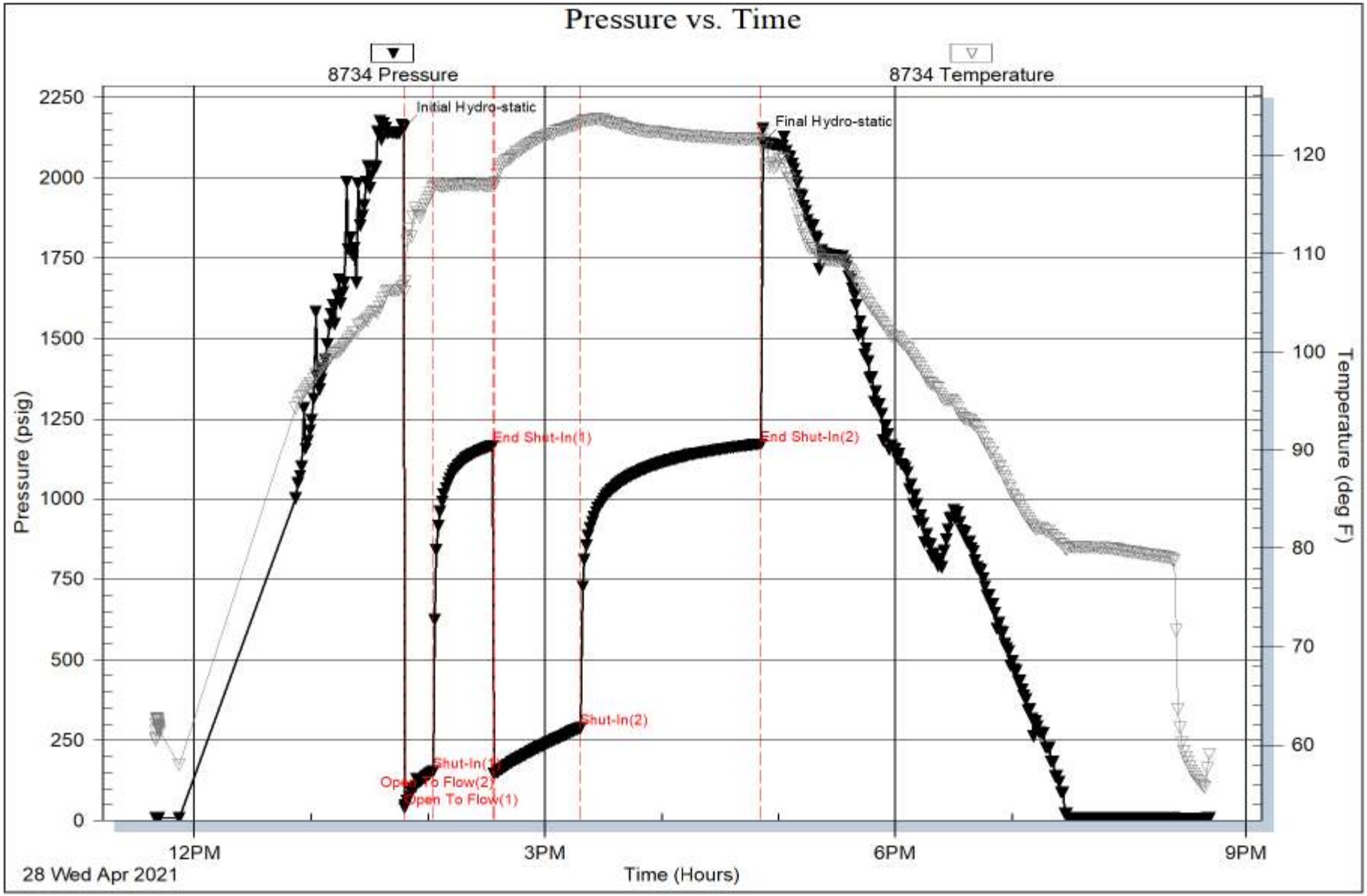
Total Length: 640.00 ft Total Volume: 7.411 bbl

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

Laboratory Name: Laboratory Location:

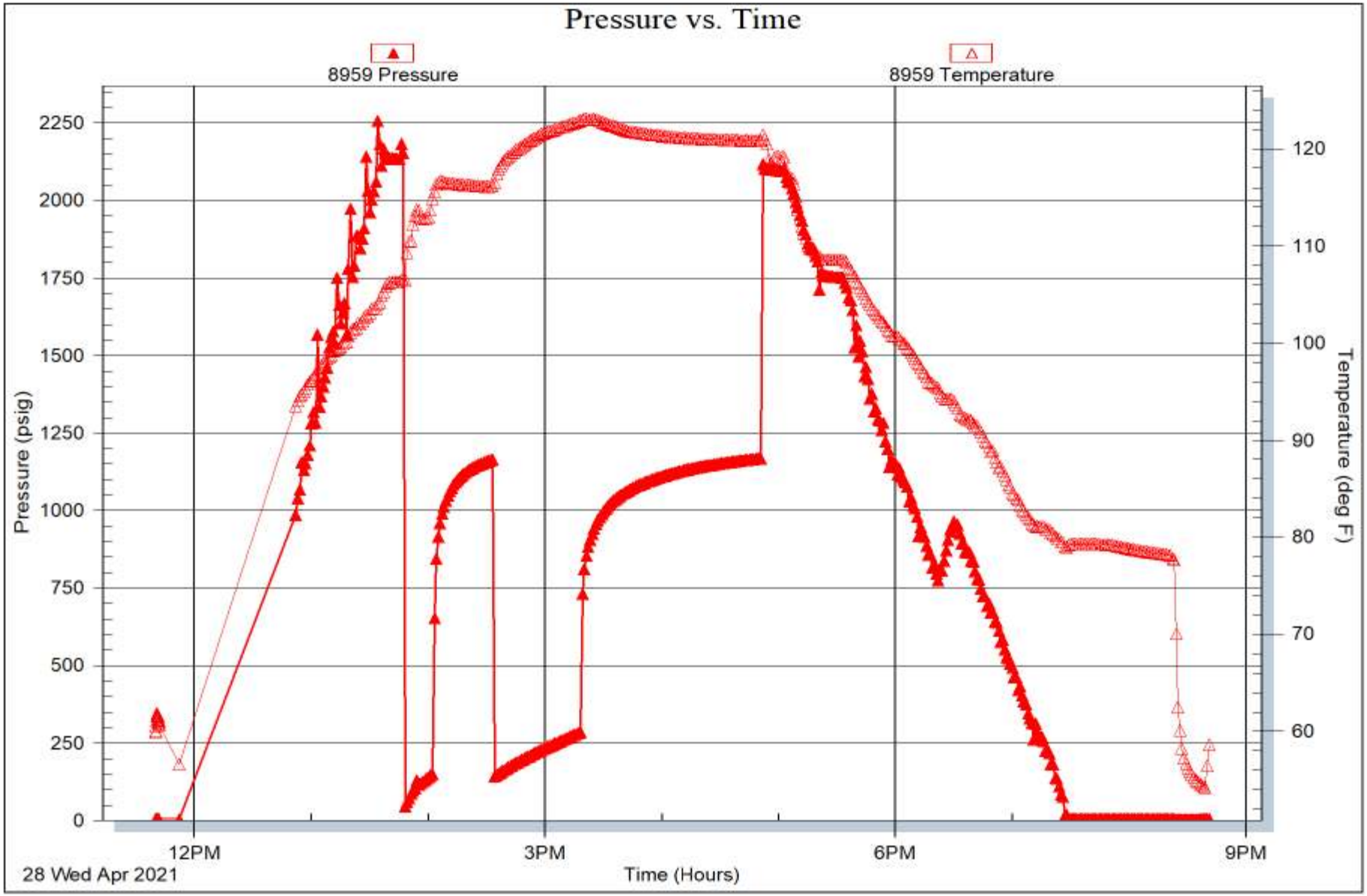
Recovery Comments: RW= 1.02 @ 57.1 degs= 7500PPM

Serial #: 8734 **Outside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 6



Trilobite Testing, Inc Ref. No: 67522 Printed: 2021.04.28 @ 20:55:53

Serial #: 8959 **Inside** Shakespeare Oil INC Ottley #2-9 DST Test Number: 6



HURRICANE SERVICES INC

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

Customer:

SHAKESPEARE OIL CO INC
202 W MAIN
SALEM, IL 62881

INT

Invoice Date:	4/20/2021
Invoice #:	0352574
Lease Name:	Ottley
Well #:	2-9 (New)
County:	Logan, Ks
Job Number:	WP1311
District:	Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Depth Charge 0'-500'	1.000	850.000	850.00
Heavy Eq Mileage	22.000	3.400	74.80
Light Eq Mileage	22.000	1.700	37.40
Ton Mileage	155.000	1.275	197.63
H-325	150.000	17.000	2,550.00

502-5
gn

RECEIVED
MAY 0 6 2021

DW

Total 3,709.83

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!

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	Shakespeare Oil Co	Lease & Well #	Ottley # 2-9			Date	4/20/2021
Service District	Oakley KS	County & State	Logan KS	Legals S/T/R	9-14S-32W	Job #	
Job Type	Surface	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	WP 1311

Equipment #	Driver
73	Josh
208	John
205	Spencer

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☑ Lockout/Tagout	☑ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☑ Required Permits	☑ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☑ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
D010	Depth Charge: 0'-500'	job	1.00				$850.00
M010	Heavy Equipment Mileage	mi	22.00				$74.80
M015	Light Equipment Mileage	mi	22.00				$37.40
M020	Ton Mileage	tm	155.00				$197.63
CP015	H-325	sack	150.00				$2,550.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

		Gross:		Net:	$3,709.83
	Total Taxable	$ -	Tax Rate:		
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.				Sale Tax:	$ -
				Total:	$ 3,709.83

HSI Representative: *Josh Mosier*

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 fom 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 informaiton in determining taxable services.

X_____ **CUSTOMER AUTHORIZATION SIGNATURE**

CEMENT TREATMENT REPORT

Customer:	Shakespeare Oil Co	Well:	Ottley # 2-9	Ticket:	WP 1311
City, State:	Oakley KS	County:	Logan KS	Date:	4/20/2021
Field Rep:		S-T-R:	9-14S-32W	Service:	Surface

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	265 ft
Casing Size:	8 7/8 in
Casing Depth:	263.96 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	15.6 bbls

Calculated Slurry - Lead	
Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft^3 / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	263.96 ft
Annular Volume:	19.4 bbls
Excess:	
Total Slurry:	37.6 bbls
Total Sacks:	150 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / 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 BBLs	TOTAL BBLs	REMARKS
1145A			-	-	GOT TO LOCATION/ RIG JUST STARTED PULLING DRILL COLLARS
1150A				-	SAFETY MEETING
1155A				-	RIGGED UP TRUCKS
123A				-	CIRCULATED HOLE
137A	3.0	100.0	5.0	5.0	H20 AHEAD
143A	4.7	250.0	37.6	42.6	PUMPED 150 SKS OF H-325 @ 263.96 FT
150A	5.0	200.0	15.6	58.2	DISPLACED WITH H20
153A				58.2	PLUG DOWN/ CIRCULATED 5 BBL TO THE PIT
155A				58.2	WASHED UP PUMP TRUCK
210A				58.2	RIGGED DOWN TRUCKS
230A				58.2	OFF LOCATION

CREW		UNIT
Cementer:	Josh	73
Pump Operator:	John	208
Bulk #1:	Spencer	205
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.2 bpm	183 psi	58 bbls

ftv: 15-2021/01/25
mplv: 135-2021/04/12

HURRICANE SERVICES INC

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

RECEIVED
MAY 10 2021

Customer:

SHAKESPEARE OIL CO INC
202 W MAIN
SALEM, IL 62881

Invoice Date:	4/29/2021
Invoice #:	0352646
Lease Name:	Ottley
Well #:	2-9
County:	Logan, Ks
Job Number:	WP1343
District:	Oakley

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
Cement Pump Service	1.000	935.000	935.00
Heavy Eq Mileage	25.000	3.400	85.00
Light Eq Mileage	25.000	1.700	42.50
Ton Mileage	283.000	1.275	360.83
H-Plug	240.000	11.050	2,652.00
Wooden plug 8 5/8"	1.000	127.500	127.50

PTA

502-5

Net Invoice	4,202.83
Sales Tax:	222.82
Total	4,425.65

DW

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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!

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	Shakespeare	Lease & Well #	Ottley # 2-9			Date	4/29/2021
Service District	Oakley KS	County & State	Loagan KS	Legals S/T/R	9-14S-32W	Job #	
Job Type	PTA	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	WP 1343

Equipment #	Driver
73	Josh
208	John
242	Jimmie

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☑ Lockout/Tagout	☑ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☑ Required Permits	☑ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☑ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
C011	Cement Pump Service	ea	1.00				$935.00
M010	Heavy Equipment Mileage	mi	25.00				$85.00
M015	Light Equipment Mileage	mi	25.00				$42.50
M020	Ton Mileage	tm	283.00				$360.83
CP055	H-Plug	sack	240.00				$2,652.00
FE290	8 5/8" Wooden Plug	ea	1.00				$127.50

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

		Gross:		Net:	$4,202.83
	Total Taxable	$ -	Tax Rate:		
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.				Sale Tax:	$ -
				Total:	$ 4,202.83

HSI Representative: *Josh Mosier*

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X_____ **CUSTOMER AUTHORIZATION SIGNATURE**

ftv: 15-2021/01/25
mplv: 140-2021/04/21

CEMENT TREATMENT REPORT

Customer:	Shakespeare	Well:	Ottley # 2-9	Ticket:	WP 1343
City, State:	Oakley KS	County:	Loagan KS	Date:	4/29/2021
Field Rep:	Josh Mosier	S-T-R:	9-14S-32W	Service:	PTA

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4515 ft
Casing Size:	in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	bbls

Calculated Slurry - Lead	
Blend:	H-PLUG
Weight:	13.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.42 ft^3 / sx
Annular Bbls / Ft.:	0.0406 bbs / ft.
Depth:	2300 ft
Annular Volume:	93.4 bbls
Excess:	
Total Slurry:	60.7 bbls
Total Sacks:	240 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / 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 BBLs	TOTAL BBLs	REMARKS
500P			-	-	GOT TO LOCATION
505P				-	SAFETY MEETING
510P				-	RIGGED UP TRUCKS
545P	3.0	250.0	5.0	5.0	PUMPED H20 AHEAD
547P	4.2	250.0	12.6	17.6	PUMPED 50 SKS OF H - PLUG @ 2300 FT
550P	3.0	250.0	28.2	45.8	DISPLACED WITH H20
630P	4.2	150.0	25.2	71.0	PUMPED 100 SKS OF H-PLUG @ 1275 FT
636P	3.0	100.0	9.3	80.3	DISPLACED WITH H20
715P	2.5	100.0	12.6	92.9	PUMPED 50 SKS OF H - PLUG @ 325 FT
720P	2.2	50.0	0.2	93.1	DISPLACED WITH H20
800P	2.2	50.0	2.5	95.6	PUMPED 10 SKS OF H-PLUG IN TOP 40 FT
807P	2.2	50.0	7.5		PUMPED 30 SKS OF H-PLUG IN RH
810P					WASHED UP PUMP TRUCK
825P					RIGGED DOWN TRUCKS
845P					OFF LOCATION

	CREW	UNIT
Cementer:	Josh	73
Pump Operator:	John	208
Bulk #1:	Jimmie	242
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
2.9 bpm	139 psi	103 bbls

ftv: 15-2021/01/25
mplv: 140-2021/04/21