

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)</i> <i>(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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	WELLS 2-27
Doc ID	1809174

All Electric Logs Run

Dual Induction/GR
Compensated Neutron
Compensated Density
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	WELLS 2-27
Doc ID	1809174

Tops

Name	Top	Datum
Base Anhydrite	2203	+701
Heebner	3897	-782
Lansing	4032	-826
Muncie Creek	4103	-998
Stark Shale	4205	-1093
Hushpuckney	4236	-1140
Marmaton	4453	-1247
Pawnee	4526	-1320
L. Cherokee Shale	4608	-1402
Mississippian	4808	-1602

SWIFT



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

Invoice

DATE	INVOICE #
11/6/2024	37161

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

RECEIVED
NOV 14 2024

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-27	Wells	Wichita	Duke Drlg	Oil	Development	Surface Pipe	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				90	Miles	8.00	720.00
576D-S	Pump Charge - <u>Shallow Surface (< 500 Ft.)</u>				1	Job	1,250.00	1,250.00
325	Standard Cement				175	Sacks	17.50	3,062.50T
279	Bentonite Gel				7	Sack(s)	30.00	210.00T
278	Calcium Chloride				8	Sack(s)	55.00	440.00T
290	D-Air				2	Gallon(s)	45.00	90.00T
276	Flocele				50	Lb(s)	4.00	200.00T
581D	Service Charge Cement				175	Sacks	2.00	350.00
583D	Drayage				774	Ton Miles	1.00	774.00
	Subtotal							7,096.50
	Sales Tax Wichita County						8.50%	340.21

155-9 9

We Appreciate Your Business!

Total

\$7,436.71

DW



TICKET 37161

CHARGE TO: Shakespeare Oil Co
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City, KS</u>	WELL/PROJECT NO. <u>2-27</u>	LEASE <u>Wells</u>	COUNTY/PARISH <u>Michihs</u>	STATE <u>KS</u>	CITY <u>Pence</u>	DATE <u>11/6/2004</u>	OWNER <u>11/6/2004</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke</u>	RIG NAME/NO.	SHIPPED VIA <u>AT</u>	DELIVERED TO <u>AT Location</u>	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Surface Pipe</u>	WELL LOCATION <u>Pence, 6-12, 1/2-5</u>				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS <u>E-1110</u>						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			U/M	U/M		
<u>575</u>					<u>Truck #115</u>	<u>90</u>	<u>mi</u>	<u>8.00</u>	<u>720.00</u>	
<u>576.5</u>					<u>Pump Charge - Surface</u>	<u>1</u>	<u>job</u>	<u>1,260.00</u>	<u>1,260.00</u>	
<u>326</u>					<u>STANDARD Cement</u>	<u>175</u>	<u>skt</u>	<u>17.00</u>	<u>2975.00</u>	
<u>279</u>					<u>BENTONITE GEL</u>	<u>7</u>	<u>skt</u>	<u>30.00</u>	<u>210.00</u>	
<u>278</u>					<u>Calcium Chloride</u>	<u>8</u>	<u>skt</u>	<u>65.00</u>	<u>440.00</u>	
<u>290</u>					<u>D-Air</u>	<u>2</u>	<u>gal</u>	<u>45.00</u>	<u>90.00</u>	
<u>276</u>					<u>Floccel</u>	<u>50</u>	<u>lbs</u>	<u>4.00</u>	<u>200.00</u>	
<u>581</u>					<u>Cement Service Charge</u>					
<u>583</u>					<u>Drayage</u>					

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PAGE TOTAL 1
 TOTAL 9436.71

DATE SIGNED 11/6/2004 TIME SIGNED 11:46 A.M. P.M.

SWIFT OPERATOR Andrew Fuchs APPROVAL _____

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11/6/2024 PAGE NO. 1

CUSTOMER Shakespeare Oil Co WELL NO. 2-27 LEASE Wells JOB TYPE Surface Pipe TICKET NO. 37161

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<u>2030</u>							<u>ON LOCATION 8 5/8" 2316/fg</u>
								<u>RTD: 23'7"</u>
	<u>2130</u>							<u>Begin 8 5/8" Csg in Well</u>
	<u>2230</u>							<u>BREAK CIRCULATION</u>
	<u>2240</u>	<u>4</u>	<u>5</u>		<u>✓</u>	<u>250</u>		<u>Pump 5 bbl H₂O SPACER</u>
		<u>4</u>	<u>42</u>		<u>✓</u>	<u>200</u>		<u>Mix 175 sks of STANDARD CEMENT @ 14.7ppg</u>
		<u>4</u>	<u>0</u>		<u>✓</u>	<u>125</u>		<u>BEGIN DISPLACEMENT</u>
		<u>4</u>	<u>10.5</u>		<u>✓</u>	<u>250</u>		<u>* CIRCULATE CMT TO SURFACE *</u>
	<u>2300</u>	<u>-</u>	<u>13</u>		<u>✓</u>	<u>200</u>		<u>KO Pump * Shut IN * -Release PSI * H₂O *</u>
	<u>2315</u>							<u>Wash up Truck #115</u>
	<u>2346</u>							<u>Job Complete</u>
								<u>175 sks of STANDARD CEMENT w/ 2% gel, 3% CC, 1/4" Flo used</u>
								<u>* Approx 10 sks to the Pit * "Plug DOWN" @ 11:00 PM CST</u>
								<u>Thanks!</u>
								<u>Seelan, Josh, Jim</u>

SWIFT



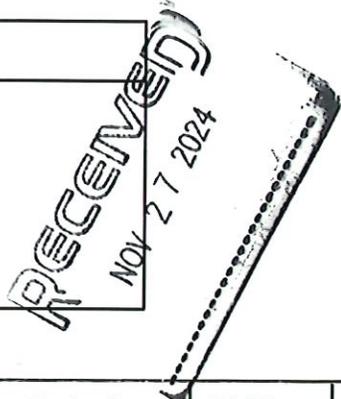
P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300



Invoice

DATE	INVOICE #
11/19/2024	37167

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



- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2-27	Wells	Wichita	Duke Drlg Rig #4	SWD	Development	Long String	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				90	Miles	8.00	720.00
579D	Pump Charge - Two-Stage & Top To Bottom LongString				1	Job	2,400.00	2,400.00
330	Swift Multi-Density Standard (MIDCON II)				450	Sacks	24.00	10,800.00T
276	Flocele				125	Lb(s)	4.00	500.00T
281	Mud Flush				500	Gallon(s)	2.50	1,250.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00
290	D-Air				8	Gallon(s)	45.00	360.00T
581D	Service Charge Cement				450	Sacks	2.00	900.00
583D	Drayage				2,021	Ton Miles	1.00	2,021.00
	Subtotal							19,001.00
	SWD &/Or InJection Well, Exempt From Sales Tax						0.00%	0.00

503-5 4

We Appreciate Your Business!

Total

\$19,001.00

DW



CHARGE TO: Shakespeare Oil Co
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 37167

PAGE 1 OF 1

SERVICE LOCATIONS

1. Ness City, KS WELL/PROJECT NO. 2-27 LEASE Wells COUNTY/PARISH Wichita STATE KS CITY Pence DATE 11/19/2024 OWNER
 2. TICKET TYPE SERVICE CONTRACTOR Duke RIG NAME/NO. #4 SHIPPED VIA CT DELIVERED TO Location ORDER NO.
 3. WELL TYPE SWD WELL CATEGORY Development JOB PURPOSE Long String WELL PERMIT NO.
 4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT			DF	U/M		
<u>575</u>									
<u>579</u>									
<u>330</u>									
<u>276</u>									
<u>281</u>									
<u>221</u>									
<u>290</u>									
<u>581</u>									
<u>583</u>									

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED 11/19/2024 TIME SIGNED 10:45 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 YES NO

WE UNDERSTOOD AND MET YOUR NEEDS?
 YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 YES NO

ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

PAGE TOTAL 1 TAX 19.001 TOTAL 19001.00

SWIFT OPERATOR Sullivan Ford APPROVAL

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11/19/2024 PAGE NO. 1

CUSTOMER Shakespeare Oil Co WELL NO. 2-27 LEASE Wells JOB TYPE Long String TICKET NO. 37167

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							ON LOCATION 5 1/2" 15lb/ft
								TP: 2.503' SS: 42.63'
	1845 1945 2000							BREAK Circulation Set PKR shoe Circulate Additional 10 minutes
	2020	4	12		✓	400		Pump 500 gal Mud Flush -1
		4	20		✓	400		Pump 20 bbl KCL SPACER
	2035	1	7.8			75		Plug RH + MAT [30, 20]
	2060	6	94		✓	400		Mix 150 sks of SMD @ 11.2 ppg
		6	87		✓	300		Mix 200 sks of SMD @ 12.0 ppg
		6	17		✓	300		Mix 50 sks of SMD @ 13.0 ppg
	2130							Wash Pump + Lines Release Latch Down Plug
	2135	6 1/2	0		✓	300		Begin Displacement
		6 1/2	30		✓	400		LIFE PSI *Circulate CMT to surface*
		6 1/2	58		✓	600		MAX LIFE PSI
	2145	5	58.5		✓	1500		LAND LATCH DOWN Plug -Release PSI *Hold* ->leave shut in
	2200							Wash up Truck #115
	2230							Job Complete
								450 sks of SMD ^{1/4" Flt} Cement used * 50 sks Circulated to the Pit *
								Thanks!
								Buduan, Preston, Josh, Jan



DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company Inc**

202 W Main St
Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.11 @ 18:55:00

End Date: 2024.11.12 @ 01:17:32

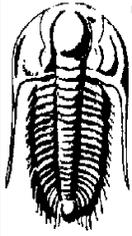
Job Ticket #: 72451 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.20 @ 11:18:58



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72451

DST#: 1

ATTN: Kent Matson

Test Start: 2024.11.11 @ 18:55:00

GENERAL INFORMATION:

Formation: **Lecomp/Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:19:32

Time Test Ended: 01:17:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J Staab

Unit No: 75

Interval: **3864.00 ft (KB) To 3940.00 ft (KB) (TVD)**

Reference Elevations: 3206.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8875

Inside

Press@RunDepth: 77.49 psig @ 3868.00 ft (KB)

Capacity: psig

Start Date: 2024.11.11

End Date:

2024.11.12

Last Calib.:

2024.11.12

Start Time: 18:55:01

End Time:

01:17:32

Time On Btm:

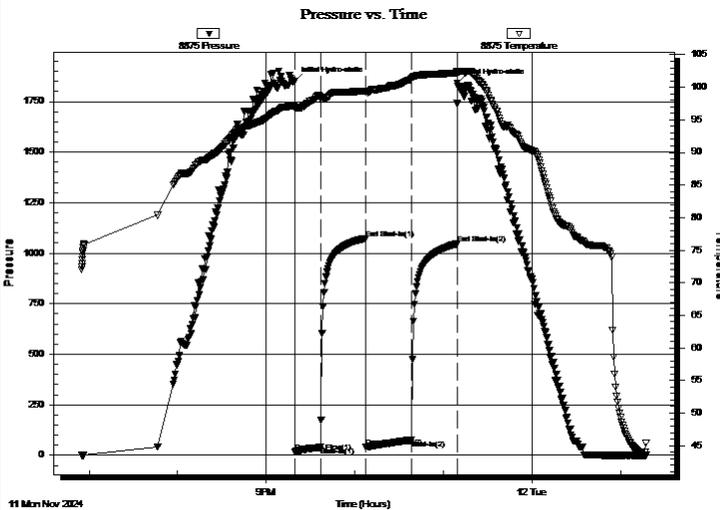
2024.11.11 @ 21:19:21

Time Off Btm:

2024.11.11 @ 23:09:22

TEST COMMENT: 15-IF-Surface to 4.75"
30-ISI-No Return
30-FF-Surface to 6.25"
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.51	97.23	Initial Hydro-static
1	16.57	96.73	Open To Flow (1)
18	40.89	98.39	Shut-In(1)
49	1074.16	99.43	End Shut-In(1)
49	42.12	99.23	Open To Flow (2)
80	77.49	101.41	Shut-In(2)
110	1046.05	102.23	End Shut-In(2)
111	1840.18	102.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Oil Spotted Mud 100%M	1.13

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72451

DST#: 1

ATTN: Kent Matson

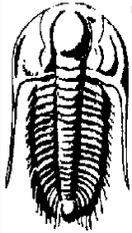
Test Start: 2024.11.11 @ 18:55:00

Tool Information

Drill Pipe:	Length: 3864.00 ft	Diameter: 3.82 inches	Volume: 54.77 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	60000.00 lb
Drill Pipe Above KB:	32.00 ft			Final	60000.00 lb
Depth to Top Packer:	3864.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	76.00 ft				
Tool Length:	108.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3833.00	
Shut In Tool	5.00			3838.00	
Hydraulic tool	5.00			3843.00	
Jars	5.00			3848.00	
Gap Sub	4.00			3852.00	
Safety Joint	3.00			3855.00	
Packer	5.00			3860.00	32.00 Bottom Of Top Packer
Packer	4.00			3864.00	
Stubb	1.00			3865.00	
Perforations	2.00			3867.00	
Change Over Sub	1.00			3868.00	
Recorder	0.00	6838	Inside	3868.00	
Recorder	0.00	8875	Inside	3868.00	
Drill Pipe	63.00			3931.00	
Change Over Sub	1.00			3932.00	
Perforations	5.00			3937.00	
Bullnose	3.00			3940.00	76.00 Bottom Packers & Anchor
Total Tool Length:	108.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72451

DST#: 1

ATTN: Kent Matson

Test Start: 2024.11.11 @ 18:55:00

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	Oil Spotted Mud 100%M	1.134

Total Length: 80.00 ft

Total Volume: 1.134 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

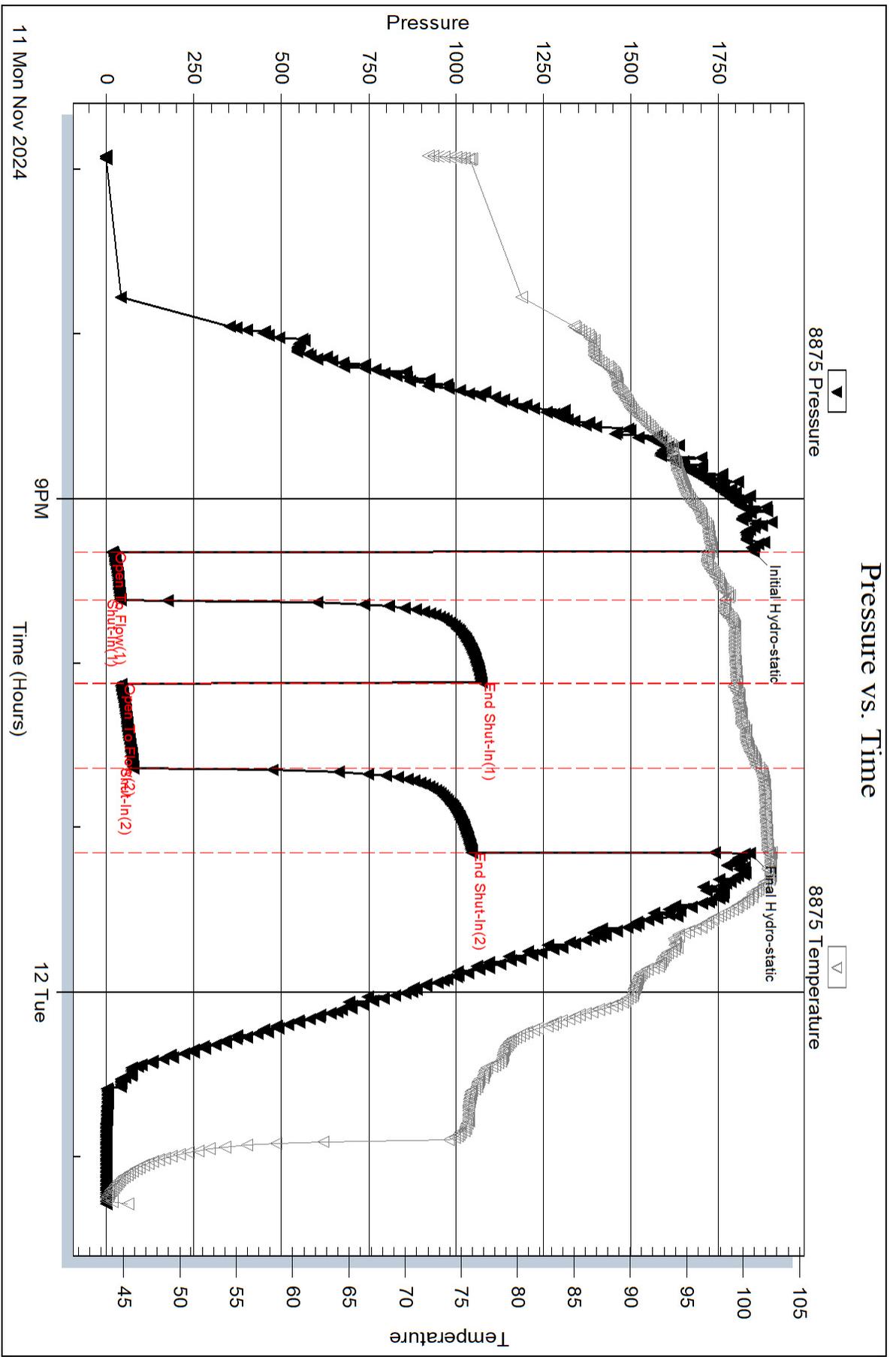
Serial #: 8875

Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 72451

Printed: 2024.11.20 @ 11:18:59

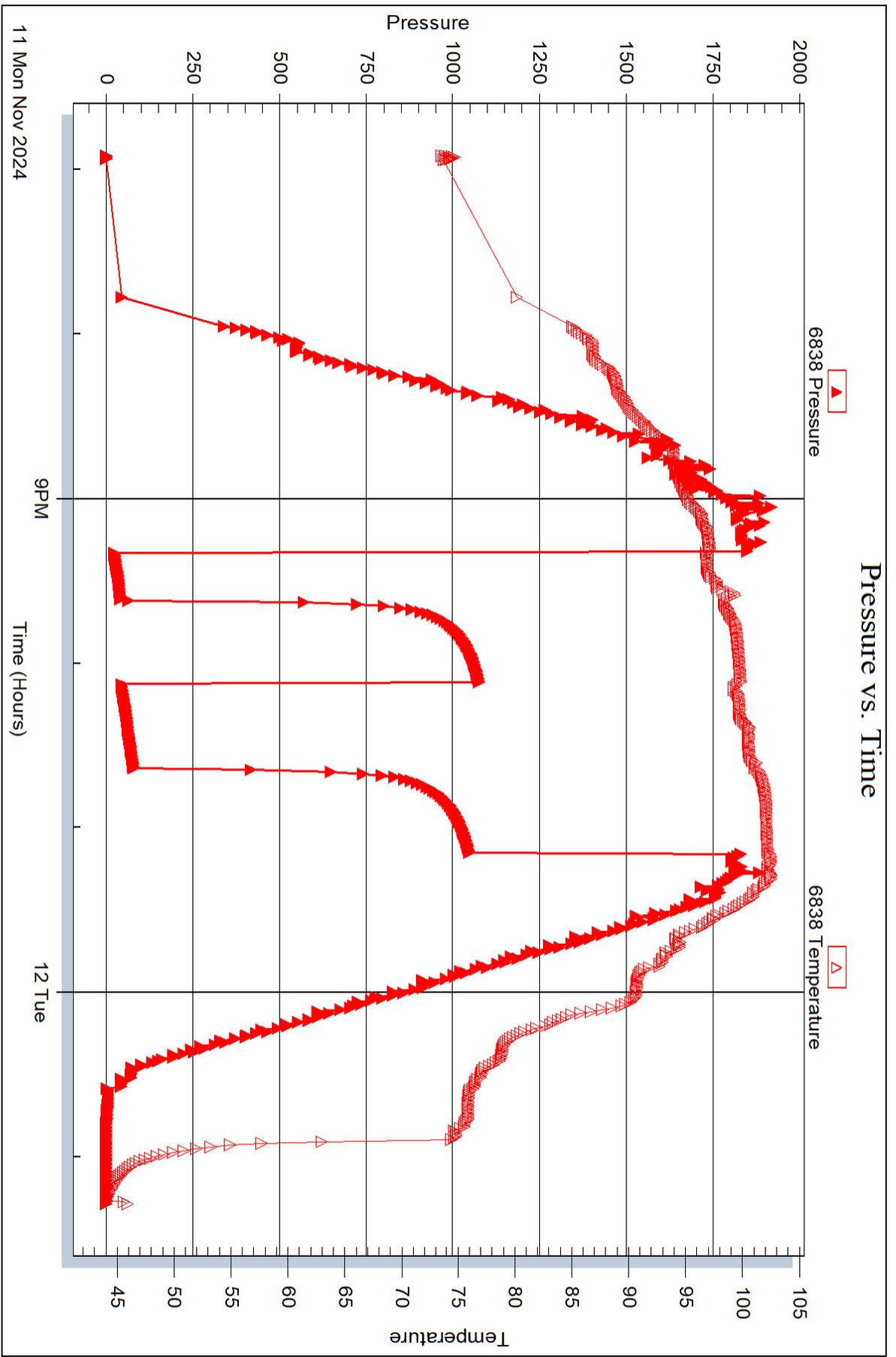
Serial #: 6838

Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 72451

Printed: 2024.11.20 @ 11:18:59



DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company Inc**

202 W Main St
Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.12 @ 15:36:00

End Date: 2024.11.12 @ 21:41:52

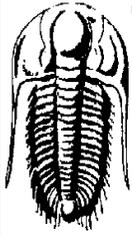
Job Ticket #: 72452 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.20 @ 11:13:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72452

DST#: 2

ATTN: Kent Matson

Test Start: 2024.11.12 @ 15:36:00

GENERAL INFORMATION:

Formation: **Tor-LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:36:47

Time Test Ended: 21:41:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 75

Interval: 3984.00 ft (KB) To 4050.00 ft (KB) (TVD)

Reference Elevations: 3206.00 ft (KB)

Total Depth: 4050.00 ft (KB) (TVD)

3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8875

Inside

Press@RunDepth: 94.88 psig @ 3988.00 ft (KB)

Capacity: psig

Start Date: 2024.11.12

End Date:

2024.11.12

Last Calib.:

2024.11.12

Start Time: 15:36:01

End Time:

21:41:52

Time On Btm:

2024.11.12 @ 17:36:37

Time Off Btm:

2024.11.12 @ 19:38:27

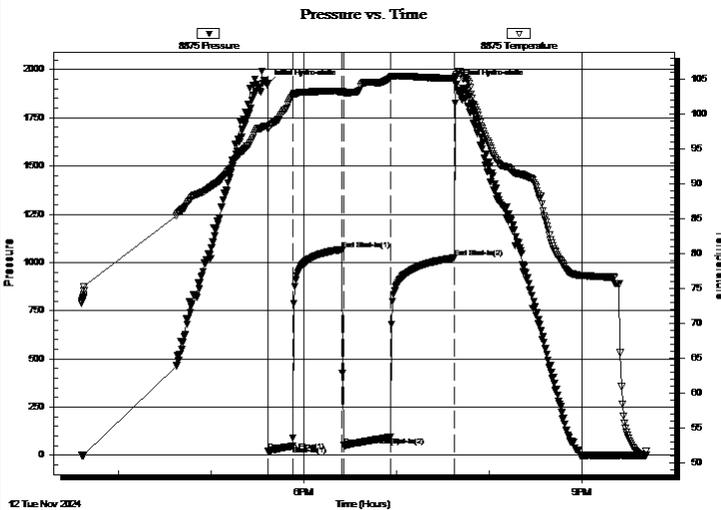
TEST COMMENT: 15-IF-Surface to 5.75"

30-ISI-No Return

30-FF-Surface to 8"

40-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1926.82	98.31	Initial Hydro-static
1	21.49	97.82	Open To Flow (1)
17	48.30	102.67	Shut-In(1)
49	1067.57	103.25	End Shut-In(1)
50	50.92	103.09	Open To Flow (2)
80	94.88	105.28	Shut-In(2)
122	1025.19	105.20	End Shut-In(2)
122	1925.84	105.42	Final Hydro-static

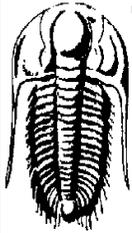
Recovery

Length (ft)	Description	Volume (bbl)
70.00	WCM 15%W 85%M	0.99
60.00	SWCM 5%W 95%M	0.85
40.00	Mud w/oil spots (tarry) 100%M	0.57

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72452

DST#: 2

ATTN: Kent Matson

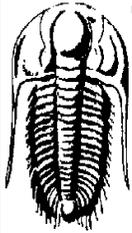
Test Start: 2024.11.12 @ 15:36:00

Tool Information

Drill Pipe:	Length: 3961.00 ft	Diameter: 3.82 inches	Volume: 56.15 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	61000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3984.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	66.00 ft				
Tool Length:	98.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3953.00	
Shut In Tool	5.00			3958.00	
Hydraulic tool	5.00			3963.00	
Jars	5.00			3968.00	
Gap Sub	4.00			3972.00	
Safety Joint	3.00			3975.00	
Packer	5.00			3980.00	32.00 Bottom Of Top Packer
Packer	4.00			3984.00	
Stubb	1.00			3985.00	
Perforations	2.00			3987.00	
Change Over Sub	1.00			3988.00	
Recorder	0.00	6838	Inside	3988.00	
Recorder	0.00	8875	Inside	3988.00	
Drill Pipe	32.00			4020.00	
Change Over Sub	1.00			4021.00	
Perforations	26.00			4047.00	
Bullnose	3.00			4050.00	66.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72452

DST#: 2

ATTN: Kent Matson

Test Start: 2024.11.12 @ 15:36:00

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:

41000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	WCM 15%W 85%M	0.992
60.00	SWCM 5%W 95%M	0.851
40.00	Mud w /oil spots (tarry) 100%M	0.567

Total Length: 170.00 ft

Total Volume: 2.410 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

RW=.251@53F

Serial #: 8875

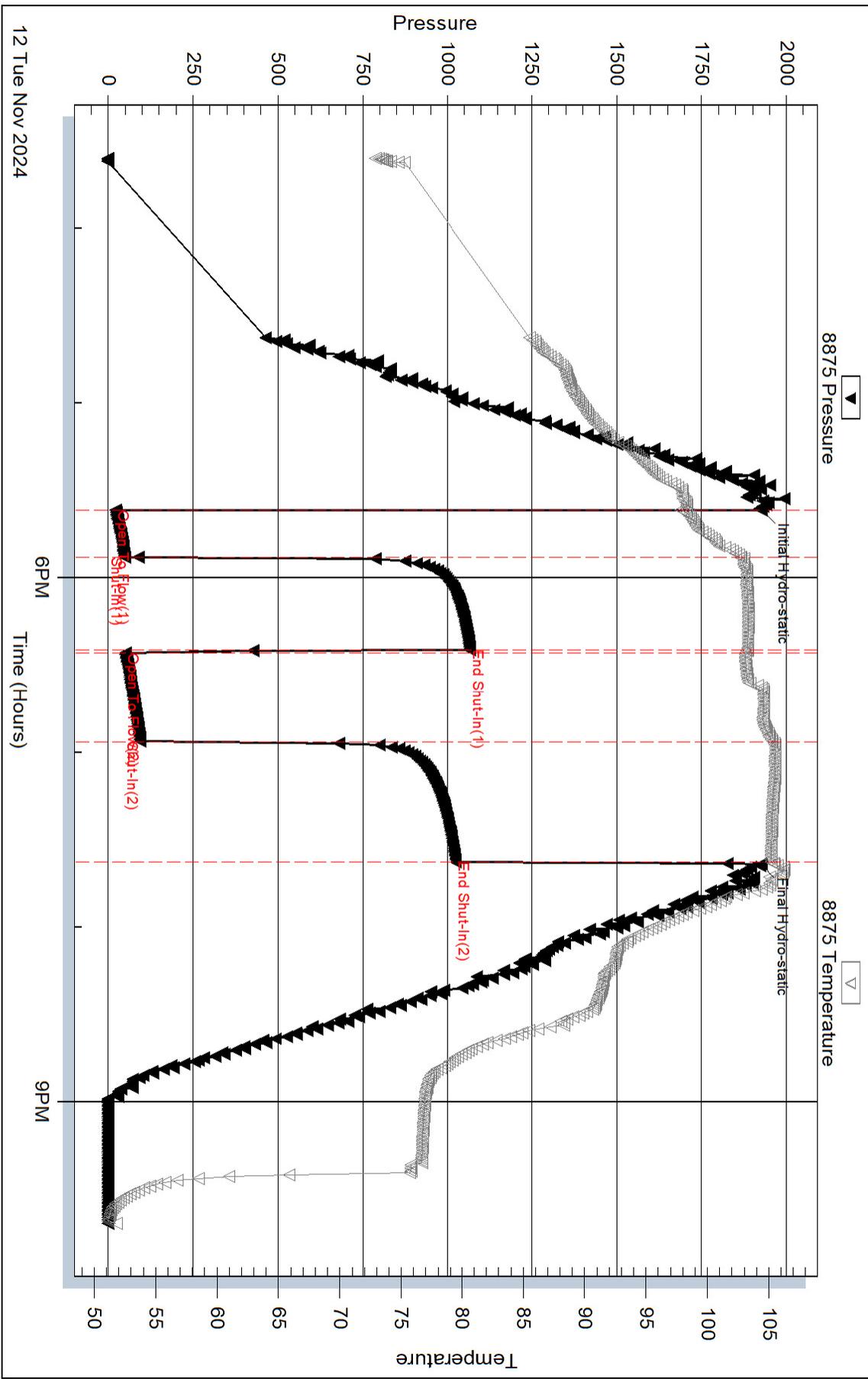
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Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 72452

Printed: 2024.11.20 @ 11:13:25

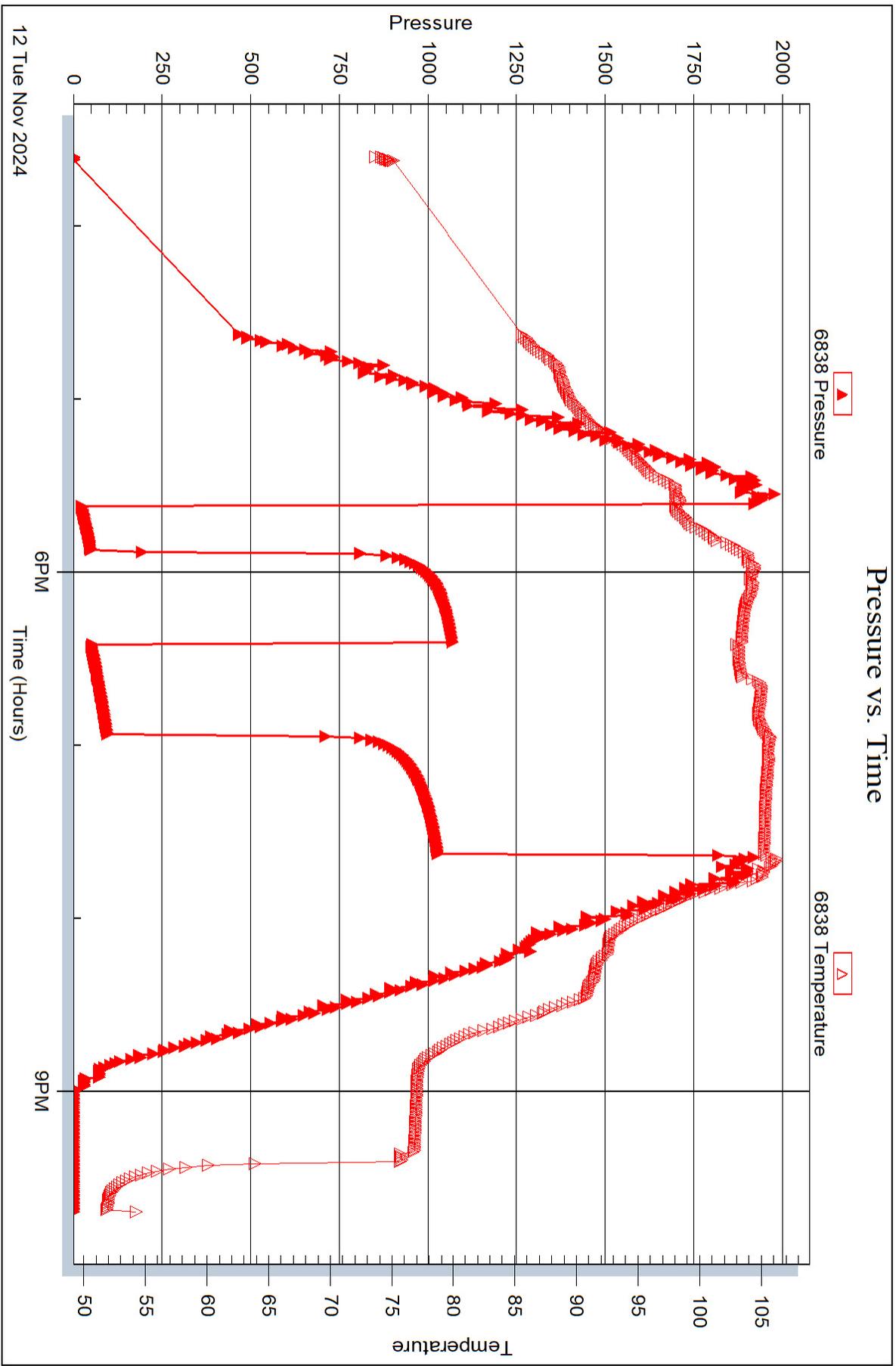
Serial #: 6838

Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company Inc**

202 W Main St
Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.13 @ 13:11:00

End Date: 2024.11.13 @ 18:30:52

Job Ticket #: 72453 DST #: 3

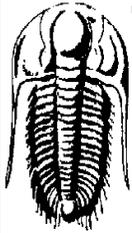
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.20 @ 11:12:48

Shakespeare Oil Company Inc
27-16S-35W Wichita KS
Wells #2-27
DST # 3
LKC D
2024.11.13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72453

DST#: 3

ATTN: Kent Matson

Test Start: 2024.11.13 @ 13:11:00

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:57:52

Time Test Ended: 18:30:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 75

Interval: 4115.00 ft (KB) To 4135.00 ft (KB) (TVD)

Total Depth: 4135.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3206.00 ft (KB)

3196.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8875 Outside

Press@RunDepth: 35.51 psig @ 4116.00 ft (KB)

Start Date: 2024.11.13

End Date: 2024.11.13

Start Time: 13:11:01

End Time: 18:30:52

Capacity: psig

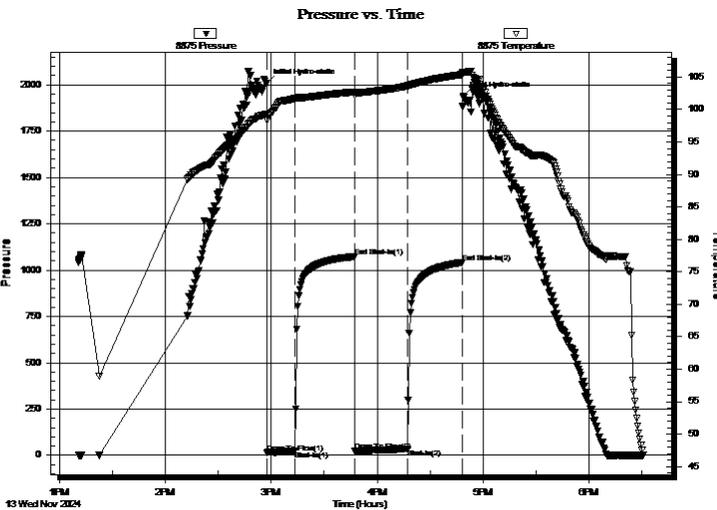
Last Calib.: 2024.11.13

Time On Btm: 2024.11.13 @ 14:57:47

Time Off Btm: 2024.11.13 @ 16:48:37

TEST COMMENT: 15-IF-Surface to 1"
30-ISI-No Return
30-FF-Surface to 1"
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.61	99.28	Initial Hydro-static
1	13.39	98.41	Open To Flow (1)
16	23.45	101.70	Shut-In(1)
50	1073.02	102.67	End Shut-In(1)
50	24.87	102.17	Open To Flow (2)
80	35.51	103.62	Shut-In(2)
111	1042.88	105.42	End Shut-In(2)
111	1939.85	105.59	Final Hydro-static

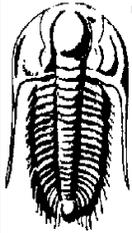
Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.43

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72453

DST#: 3

ATTN: Kent Matson

Test Start: 2024.11.13 @ 13:11:00

Tool Information

Drill Pipe:	Length: 4116.00 ft	Diameter: 3.82 inches	Volume: 58.35 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	61000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4115.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	52.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4084.00	
Shut In Tool	5.00			4089.00	
Hydraulic tool	5.00			4094.00	
Jars	5.00			4099.00	
Gap Sub	4.00			4103.00	
Safety Joint	3.00			4106.00	
Packer	5.00			4111.00	32.00 Bottom Of Top Packer
Packer	4.00			4115.00	
Stubb	1.00			4116.00	
Recorder	0.00	6838	Inside	4116.00	
Recorder	0.00	8875	Outside	4116.00	
Perforations	16.00			4132.00	
Bullnose	3.00			4135.00	20.00 Bottom Packers & Anchor

Total Tool Length: 52.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72453

DST#: 3

ATTN: Kent Matson

Test Start: 2024.11.13 @ 13:11:00

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%M	0.425

Total Length: 30.00 ft

Total Volume: 0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

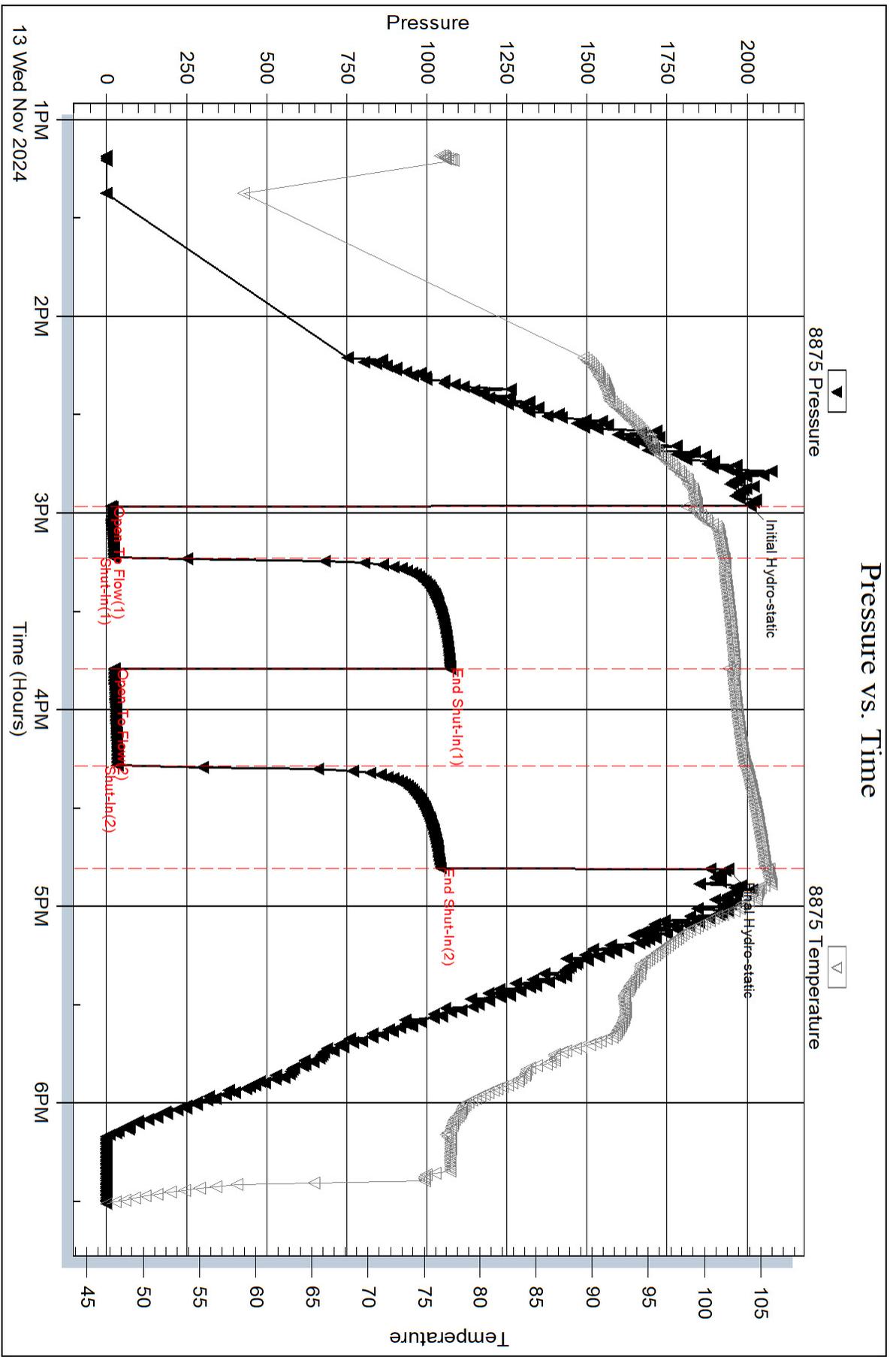
Recovery Comments: 2#LCM

Serial #: 8875

Outside Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 3



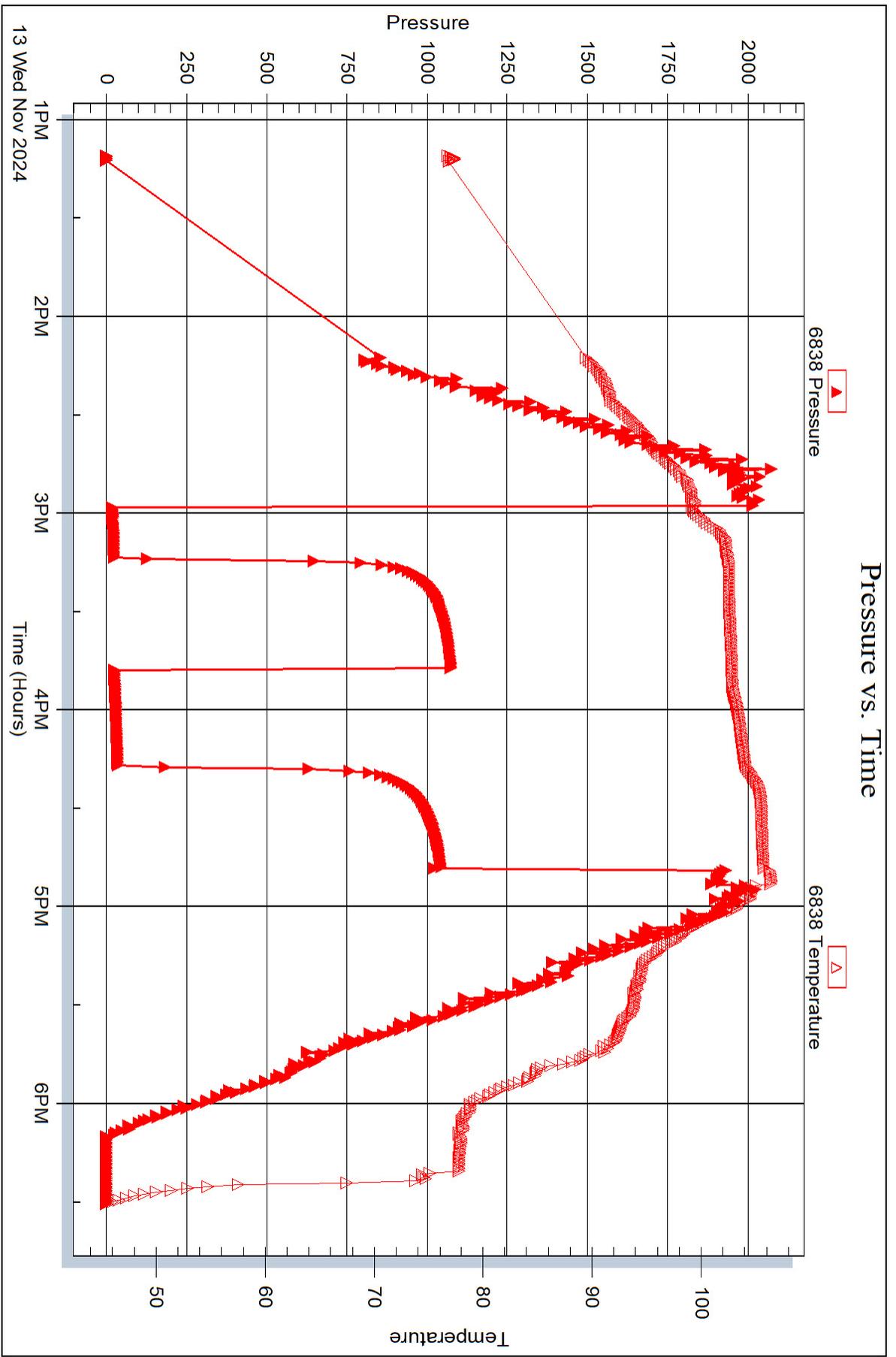
Serial #: 6838

Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company Inc**

202 W Main St
Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.14 @ 12:16:00

End Date: 2024.11.14 @ 18:11:12

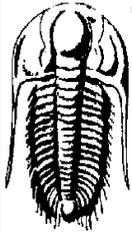
Job Ticket #: 72454 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.20 @ 11:12:19



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72454

DST#: 4

ATTN: Kent Matson

Test Start: 2024.11.14 @ 12:16:00

GENERAL INFORMATION:

Formation: **LKC H-I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:21:12

Time Test Ended: 18:11:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 75

Interval: 4196.00 ft (KB) To 4260.00 ft (KB) (TVD)

Reference Elevations: 3206.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8875

Inside

Press@RunDepth: 36.80 psig @ 4199.00 ft (KB)

Capacity: psig

Start Date: 2024.11.14

End Date:

2024.11.14

Last Calib.:

2024.11.14

Start Time: 12:16:01

End Time:

18:11:11

Time On Btm:

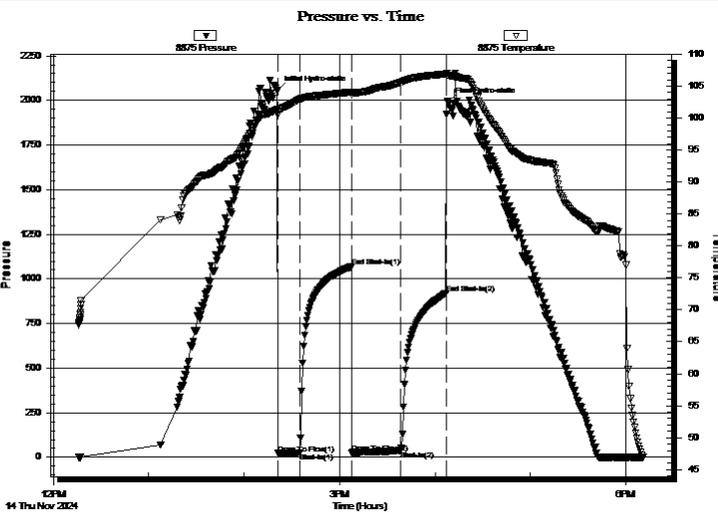
2024.11.14 @ 14:21:07

Time Off Btm:

2024.11.14 @ 16:08:07

TEST COMMENT: 15-IF-Surface to 1.5"
30-ISI-No Return
30-FF-Surface to 1.5"
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2055.49	101.33	Initial Hydro-static
1	21.71	100.53	Open To Flow (1)
14	25.34	102.91	Shut-In(1)
47	1067.94	104.07	End Shut-In(1)
47	26.91	103.67	Open To Flow (2)
78	36.80	105.61	Shut-In(2)
106	920.48	106.94	End Shut-In(2)
107	1993.03	106.72	Final Hydro-static

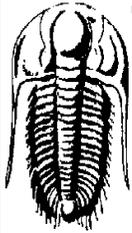
Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.43

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72454

DST#: 4

ATTN: Kent Matson

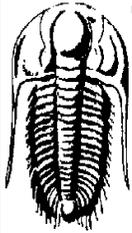
Test Start: 2024.11.14 @ 12:16:00

Tool Information

Drill Pipe:	Length: 4177.00 ft	Diameter: 3.82 inches	Volume: 59.21 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	61000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4196.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	96.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4165.00	
Shut In Tool	5.00			4170.00	
Hydraulic tool	5.00			4175.00	
Jars	5.00			4180.00	
Gap Sub	4.00			4184.00	
Safety Joint	3.00			4187.00	
Packer	5.00			4192.00	32.00 Bottom Of Top Packer
Packer	4.00			4196.00	
Stubb	1.00			4197.00	
Perforations	1.00			4198.00	
Change Over Sub	1.00			4199.00	
Recorder	0.00	6838	Inside	4199.00	
Recorder	0.00	8875	Inside	4199.00	
Drill Pipe	32.00			4231.00	
Change Over Sub	1.00			4232.00	
Perforations	25.00			4257.00	
Bullnose	3.00			4260.00	64.00 Bottom Packers & Anchor
Total Tool Length:	96.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72454

DST#: 4

ATTN: Kent Matson

Test Start: 2024.11.14 @ 12:16:00

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: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%M	0.425

Total Length: 30.00 ft Total Volume: 0.425 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

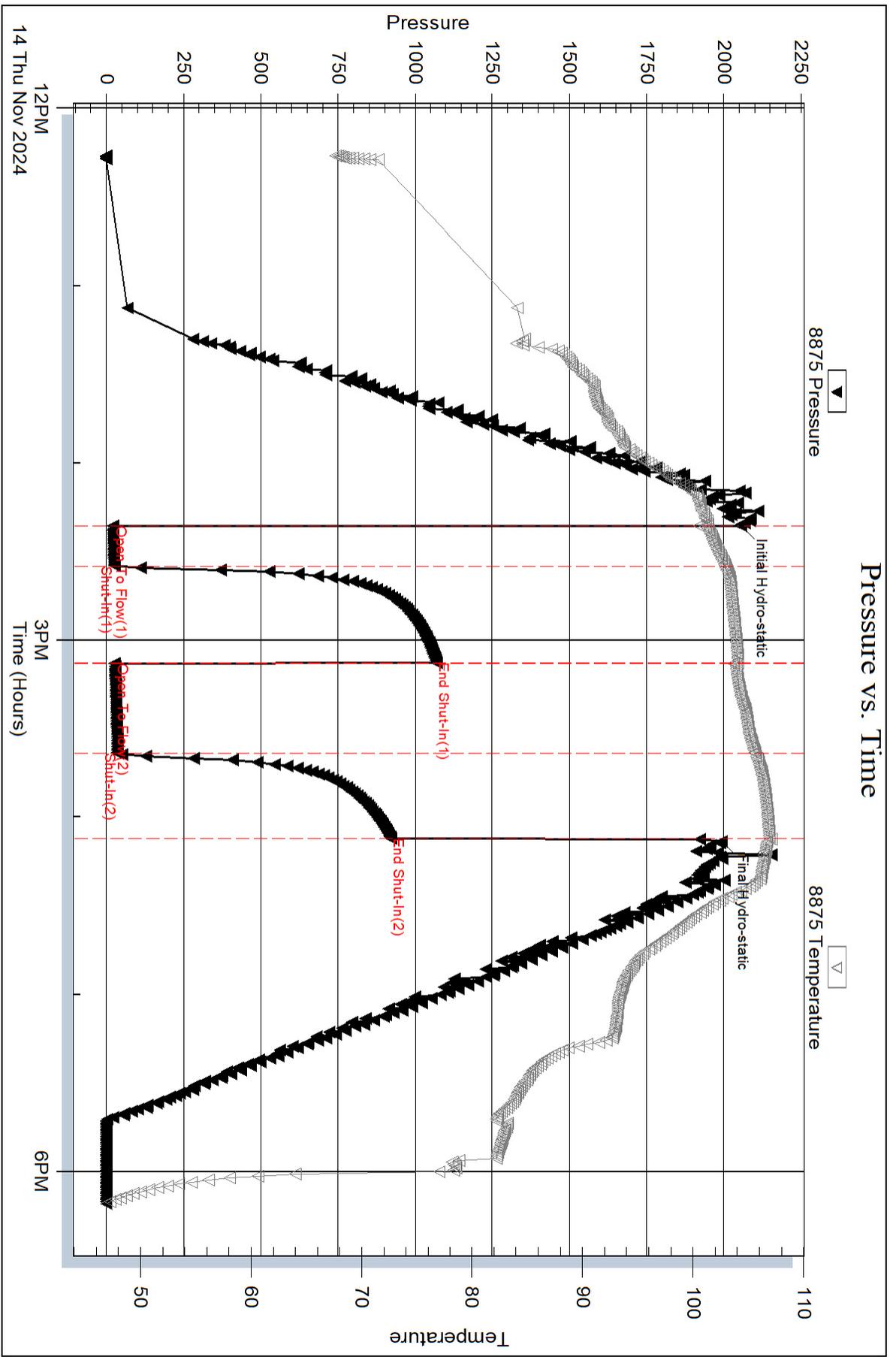
Serial #: 8875

Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 4



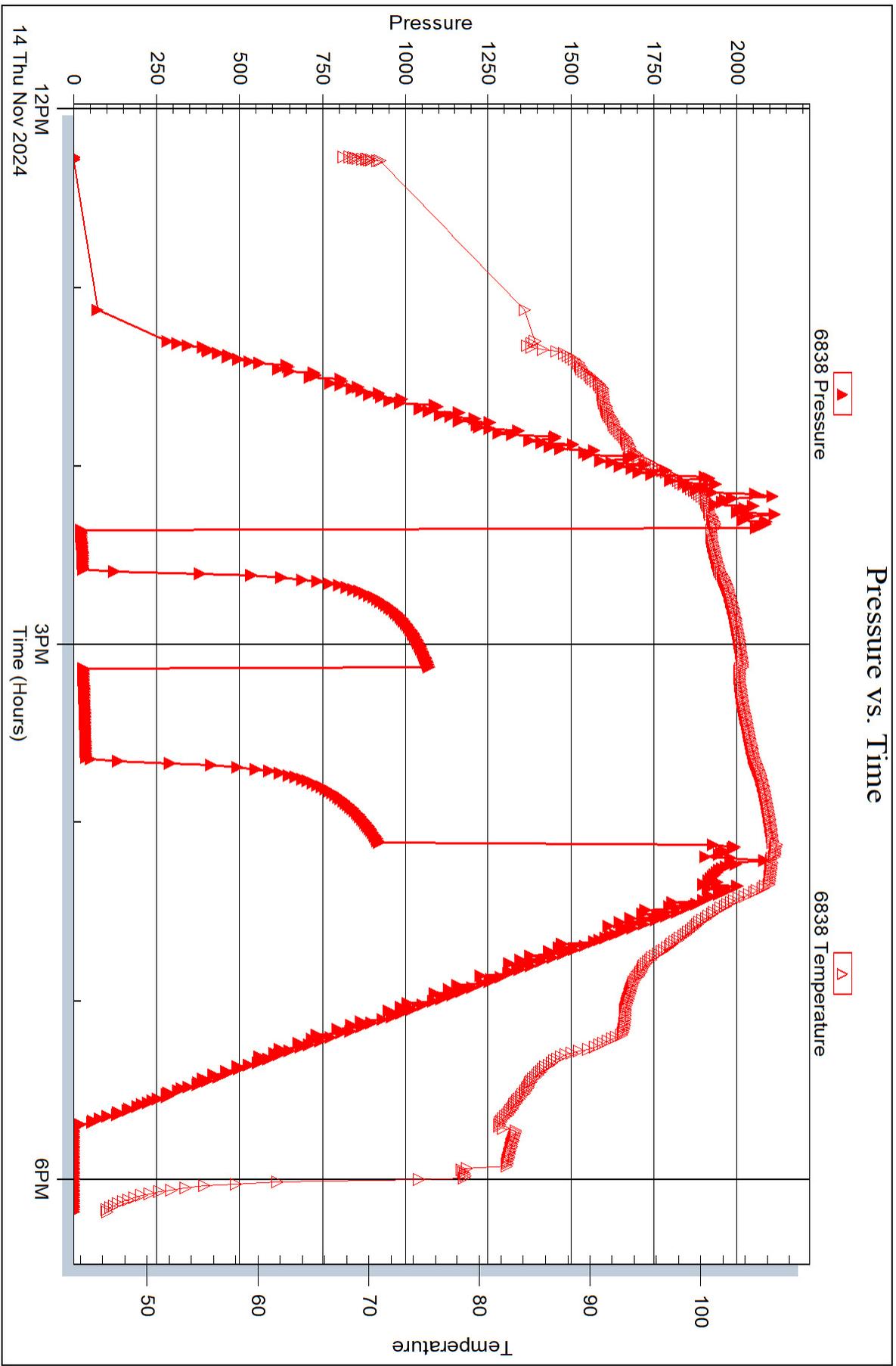
Serial #: 6838

Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company Inc**

202 W Main St
Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.15 @ 04:35:00

End Date: 2024.11.15 @ 11:08:12

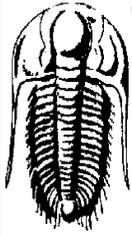
Job Ticket #: 72455 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.20 @ 11:11:50



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72455

DST#: 5

ATTN: Kent Matson

Test Start: 2024.11.15 @ 04:35:00

GENERAL INFORMATION:

Formation: **LKC J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:02:57

Time Test Ended: 11:08:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 75

Interval: 4266.00 ft (KB) To 4315.00 ft (KB) (TVD)

Total Depth: 4315.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3206.00 ft (KB)

3196.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8875

Inside

Press@RunDepth: 97.11 psig @ 4269.00 ft (KB)

Start Date: 2024.11.15

End Date:

2024.11.15

Start Time: 04:35:01

End Time:

11:08:11

Capacity: psig

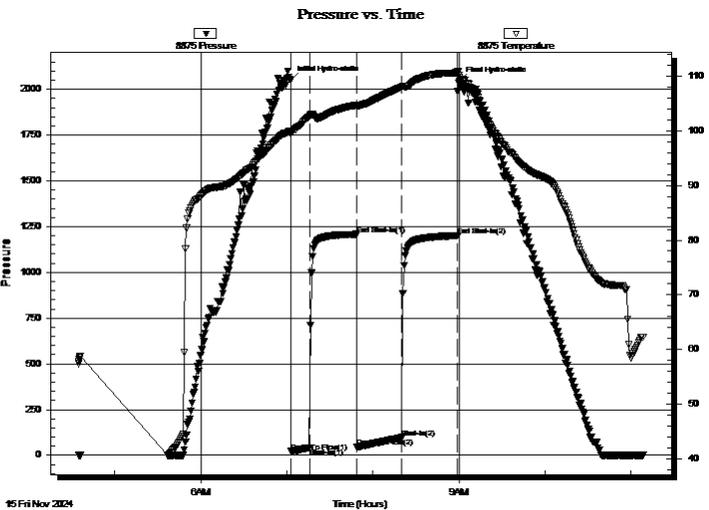
Last Calib.: 2024.11.15

Time On Btm: 2024.11.15 @ 07:02:47

Time Off Btm: 2024.11.15 @ 09:00:22

TEST COMMENT: 15-IF-Surface to 5.25"
30-ISI-Surface Blow
30-FF-Surface to 7.25"
40-FSI-Weak Surface Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2049.97	99.91	Initial Hydro-static
1	20.97	99.38	Open To Flow (1)
14	42.68	102.61	Shut-In(1)
46	1207.34	104.65	End Shut-In(1)
47	45.66	104.52	Open To Flow (2)
78	97.11	108.00	Shut-In(2)
117	1200.98	110.59	End Shut-In(2)
118	2045.16	109.65	Final Hydro-static

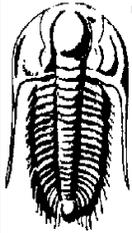
Recovery

Length (ft)	Description	Volume (bbl)
100.00	MCW 15%M 85%W	1.42
60.00	SWCM 5%W 95%M	0.85
40.00	VSOCM 1%O 99%M	0.57

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72455

DST#: 5

ATTN: Kent Matson

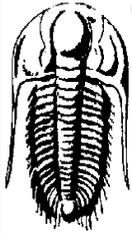
Test Start: 2024.11.15 @ 04:35:00

Tool Information

Drill Pipe:	Length: 4244.00 ft	Diameter: 3.82 inches	Volume: 60.16 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4266.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	81.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4235.00	
Shut In Tool	5.00			4240.00	
Hydraulic tool	5.00			4245.00	
Jars	5.00			4250.00	
Gap Sub	4.00			4254.00	
Safety Joint	3.00			4257.00	
Packer	5.00			4262.00	32.00 Bottom Of Top Packer
Packer	4.00			4266.00	
Stubb	1.00			4267.00	
Perforations	1.00			4268.00	
Change Over Sub	1.00			4269.00	
Recorder	0.00	6838	Inside	4269.00	
Recorder	0.00	8875	Inside	4269.00	
Drill Pipe	32.00			4301.00	
Change Over Sub	1.00			4302.00	
Perforations	10.00			4312.00	
Bullnose	3.00			4315.00	49.00 Bottom Packers & Anchor
Total Tool Length:	81.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72455

DST#: 5

ATTN: Kent Matson

Test Start: 2024.11.15 @ 04:35:00

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:

39000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
100.00	MCW 15%M 85%W	1.418
60.00	SWCM 5%W 95%M	0.851
40.00	VSOCM 1%O 99%M	0.567

Total Length: 200.00 ft

Total Volume: 2.836 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

RW=.239@55F

Serial #: 8875

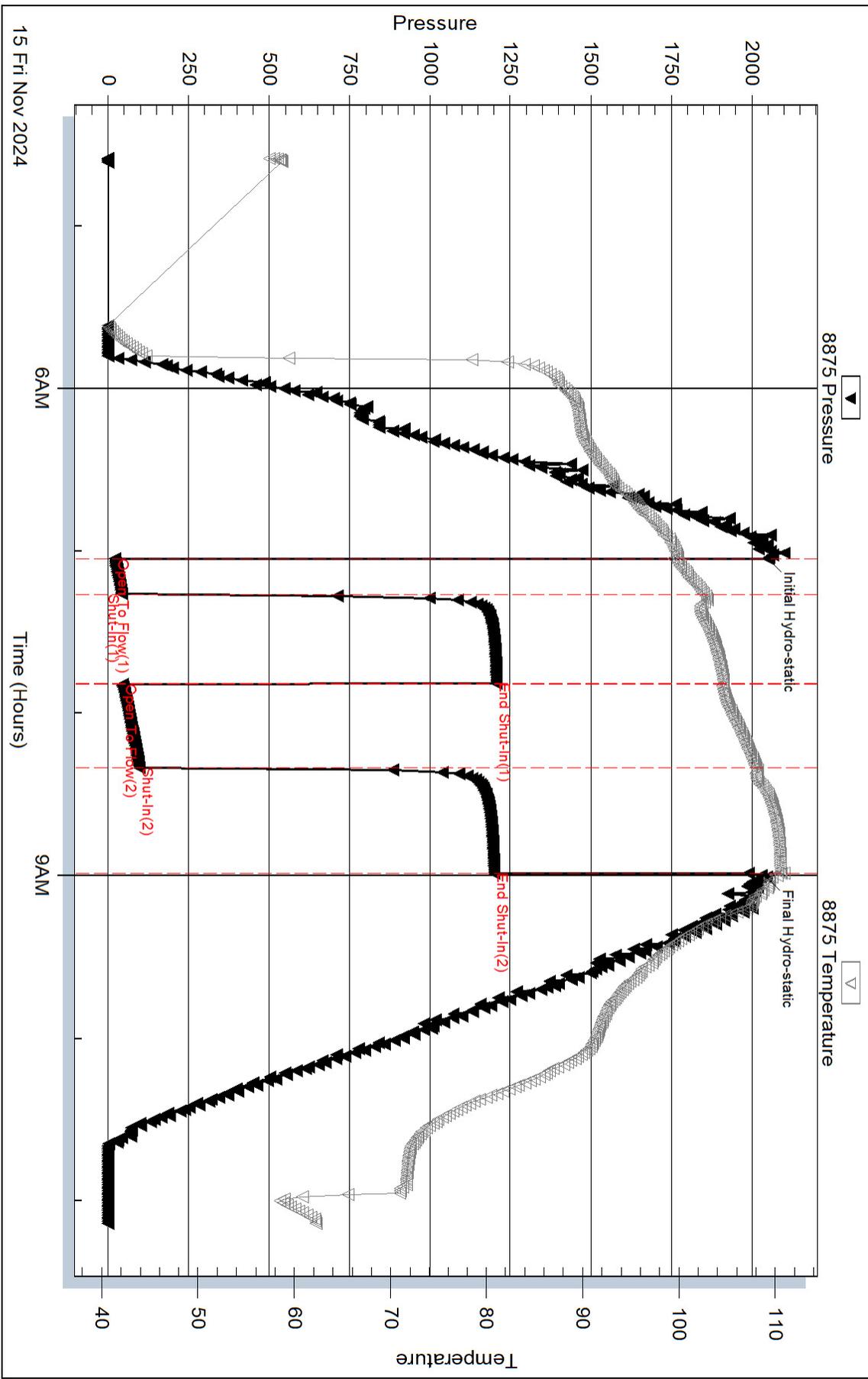
Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 5

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 72455

Printed: 2024.11.20 @ 11:11:50

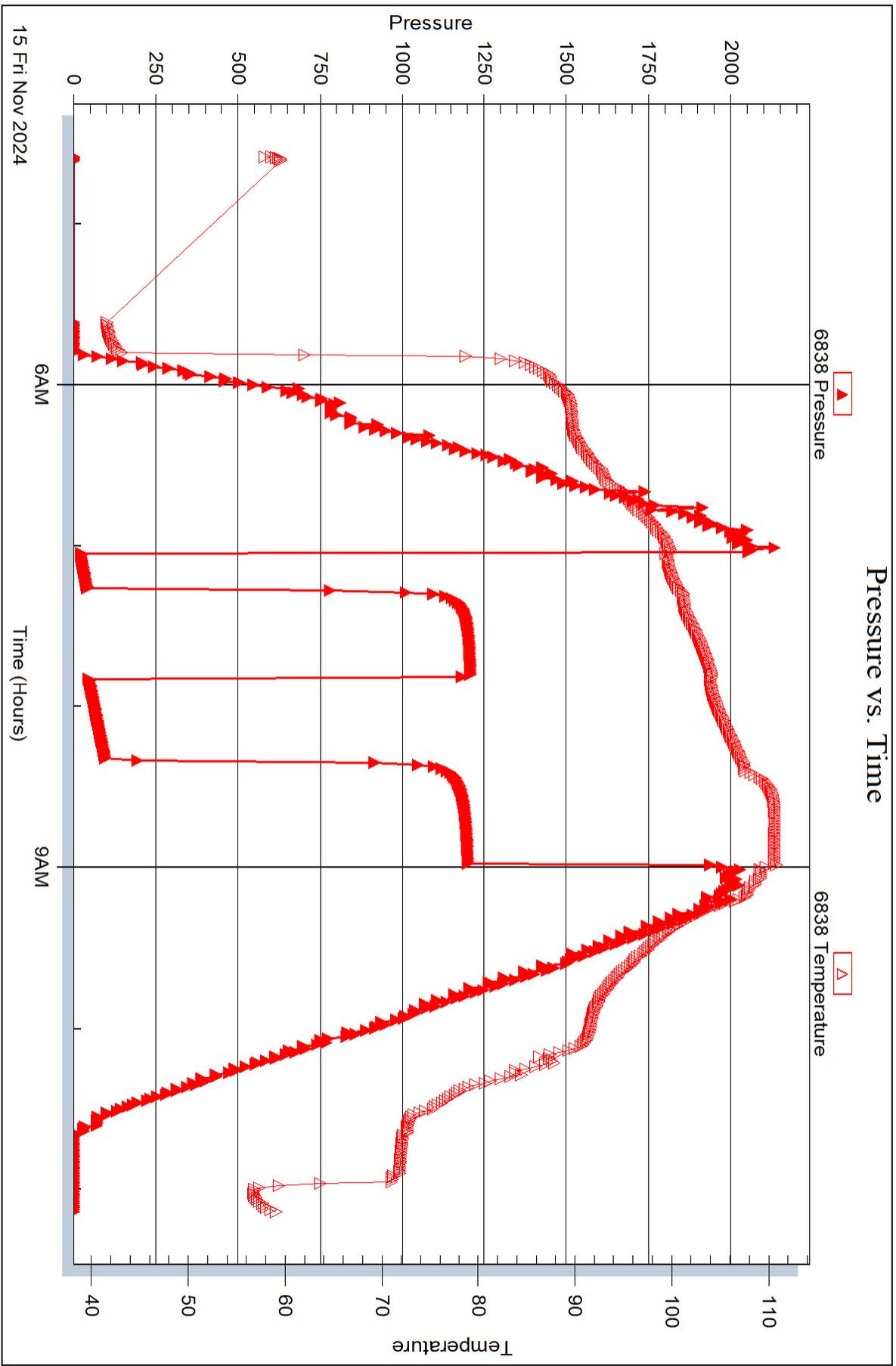
Serial #: 6838

Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Company Inc**

202 W Main St
Salem IL 62881+1519

ATTN: Kent Matson

Wells #2-27

27-16S-35W Wichita KS

Start Date: 2024.11.16 @ 14:08:00

End Date: 2024.11.16 @ 20:27:52

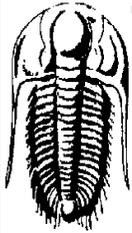
Job Ticket #: 72456 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.11.20 @ 11:07:50



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72456

DST#: 6

ATTN: Kent Matson

Test Start: 2024.11.16 @ 14:08:00

GENERAL INFORMATION:

Formation: **Marmaton A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:23:02

Time Test Ended: 20:27:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J Staab

Unit No: 75

Interval: 4444.00 ft (KB) To 4510.00 ft (KB) (TVD)

Reference Elevations: 3206.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

3196.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8875

Inside

Press@RunDepth: 30.27 psig @ 4448.00 ft (KB)

Capacity: psig

Start Date: 2024.11.16

End Date:

2024.11.16

Last Calib.:

2024.11.16

Start Time: 14:08:01

End Time:

20:27:52

Time On Btm:

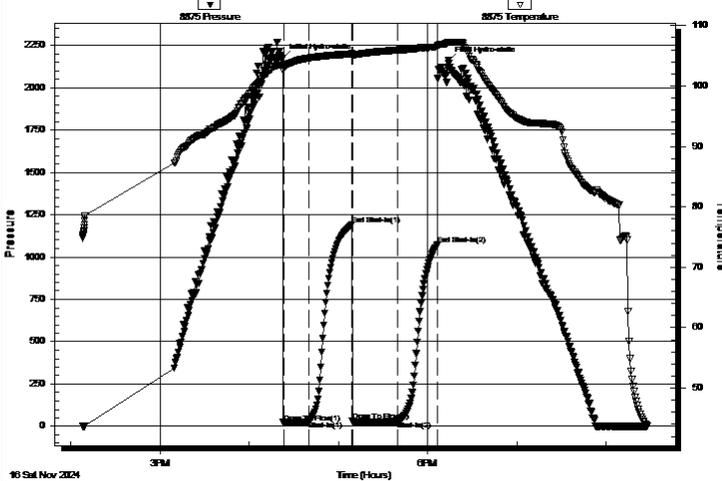
2024.11.16 @ 16:22:47

Time Off Btm:

2024.11.16 @ 18:13:47

TEST COMMENT: 15-IF-Surface to 1"
30-ISI-No Return
30-FF-Surface to 2.25"
30-FSI-No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2171.84	103.47	Initial Hydro-static
1	22.84	103.16	Open To Flow (1)
18	29.76	104.62	Shut-In(1)
47	1191.12	105.31	End Shut-In(1)
47	29.84	105.13	Open To Flow (2)
77	30.27	105.96	Shut-In(2)
104	1072.22	106.51	End Shut-In(2)
111	2158.69	107.22	Final Hydro-static

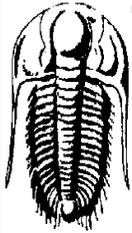
Recovery

Length (ft)	Description	Volume (bbl)
15.00	GMCO 10%G 15%M 75%O	0.21
15.00	GO 10%G 90%O	0.21
0.00	30 GIP 100%G	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72456

DST#: 6

ATTN: Kent Matson

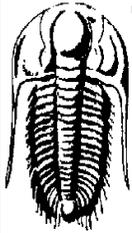
Test Start: 2024.11.16 @ 14:08:00

Tool Information

Drill Pipe:	Length: 4432.00 ft	Diameter: 3.82 inches	Volume: 62.83 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4444.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	66.00 ft				
Tool Length:	98.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4413.00	
Shut In Tool	5.00			4418.00	
Hydraulic tool	5.00			4423.00	
Jars	5.00			4428.00	
Gap Sub	4.00			4432.00	
Safety Joint	3.00			4435.00	
Packer	5.00			4440.00	32.00 Bottom Of Top Packer
Packer	4.00			4444.00	
Stubb	1.00			4445.00	
Perforations	2.00			4447.00	
Change Over Sub	1.00			4448.00	
Recorder	0.00	6838	Inside	4448.00	
Recorder	0.00	8875	Inside	4448.00	
Drill Pipe	32.00			4480.00	
Change Over Sub	1.00			4481.00	
Perforations	26.00			4507.00	
Bullnose	3.00			4510.00	66.00 Bottom Packers & Anchor
Total Tool Length:	98.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company Inc

27-16S-35W Wichita KS

202 W Main St
Salem IL 62881+1519

Wells #2-27

Job Ticket: 72456

DST#: 6

ATTN: Kent Matson

Test Start: 2024.11.16 @ 14:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	GMCO 10%G 15%M 75%O	0.213
15.00	GO 10%G 90%O	0.213
0.00	30 GIP 100%G	0.000

Total Length: 30.00 ft

Total Volume: 0.426 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

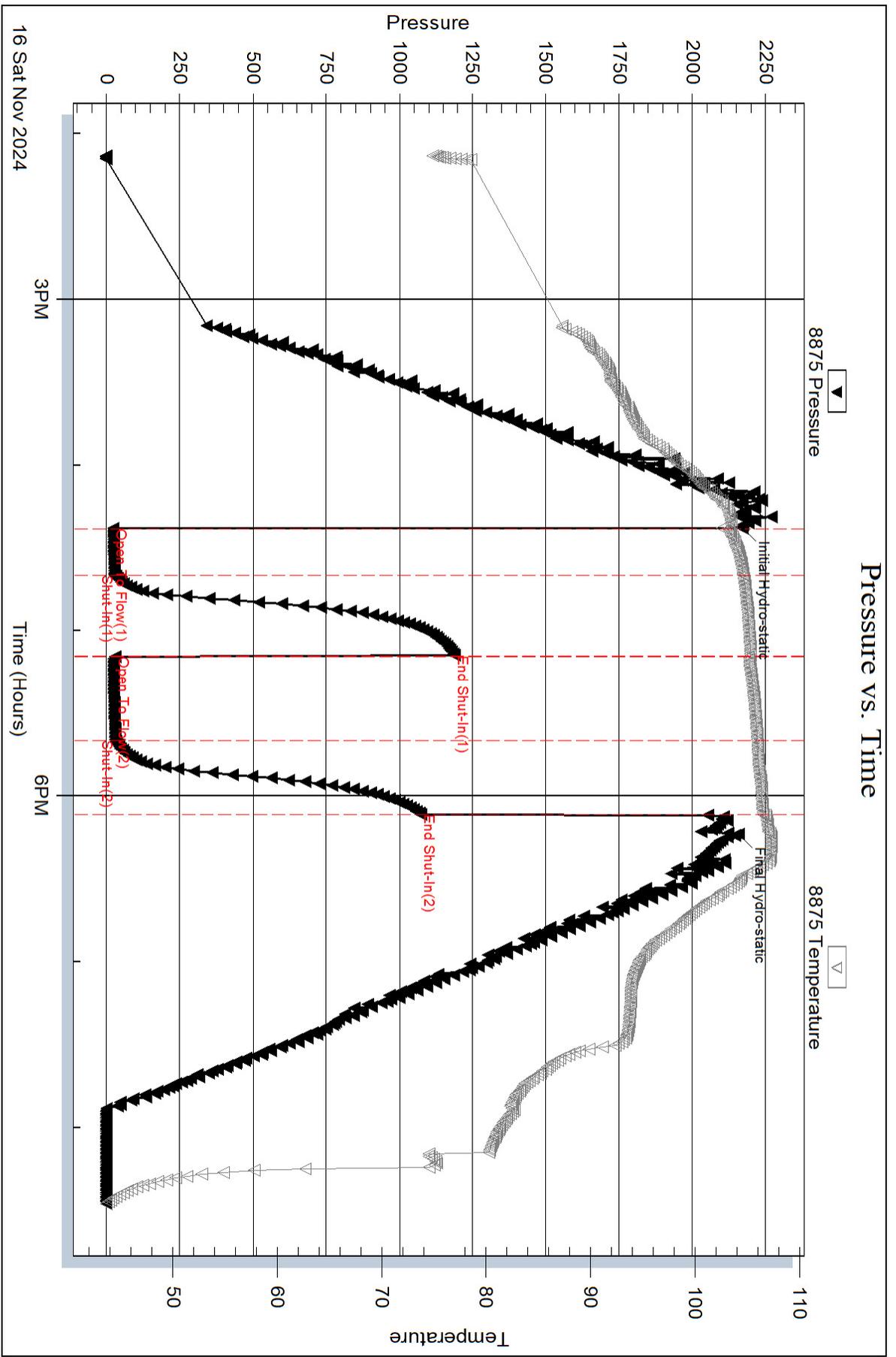
Serial #: 8875

Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 6



Trilobite Testing, Inc

Ref. No: 72456

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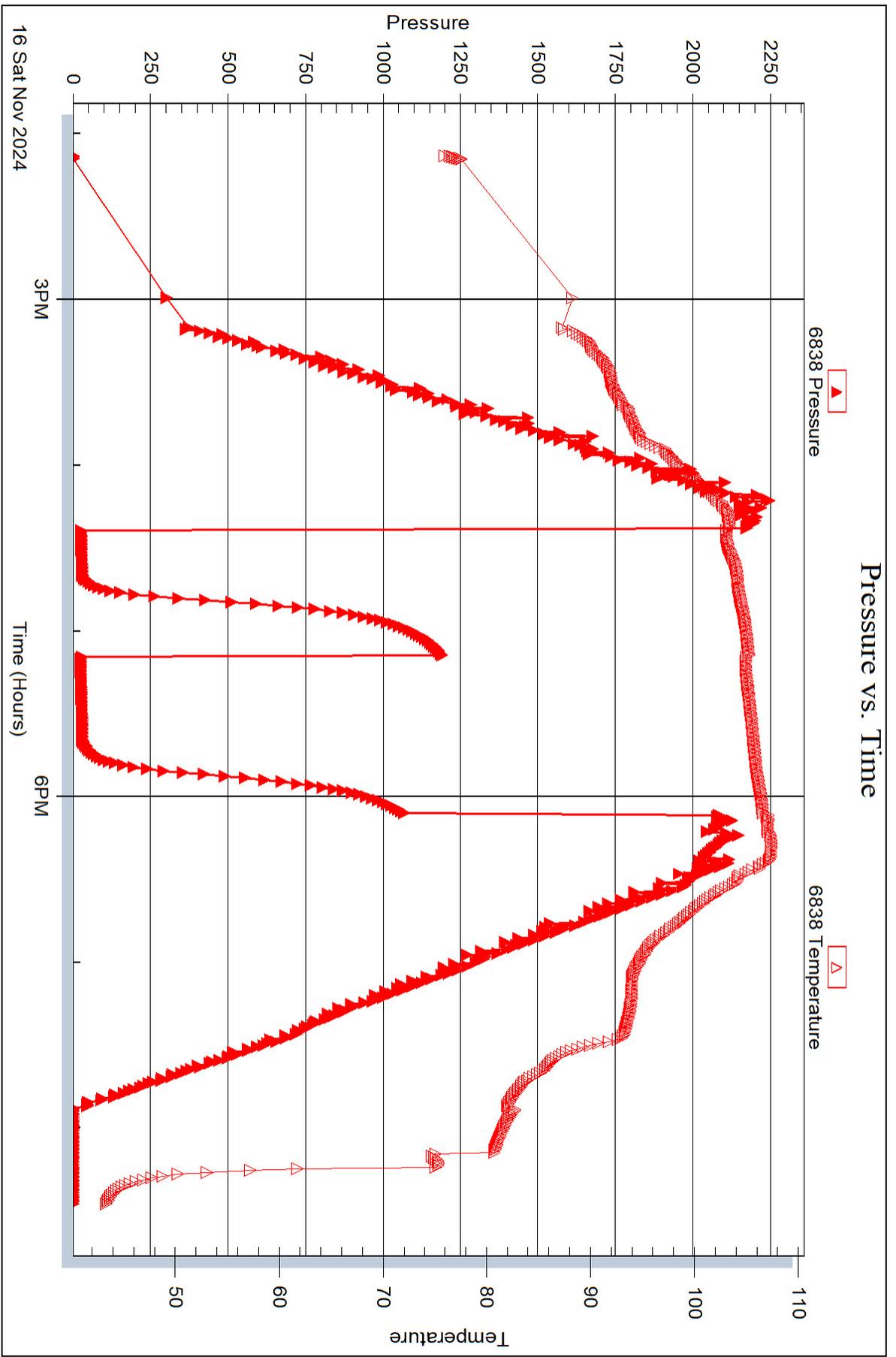
Serial #: 6838

Inside

Shakespeare Oil Company Inc

Wells #2-27

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **72451**

Well Name & No. Wells #2-27 Test No. 1 Date 11/11/2024
 Company Shakespeare Oil Company Inc Elevation 3206 KB 3196 GL
 Address 202 W Main St Salem IL 62881+1519
 Co. Rep / Geo Kent Matson Rig Duke #4
 Location: Sec. 27 Twp 16S Rge. 35W Co. Wichita State KS

Interval Tested 3864' - 3940' Zone Tested Decompton to Oread
 Anchor Length 76' Drill Pipe Run 3864' Mud Wt. 8.8
 Top Packer Depth 3859' Drill Collars Run - Vis 56
 Bottom Packer Depth 3864' Wt. Pipe Run - WL 5.8
 Total Depth 3940' Chlorides 8200 ppm System LCM 2#

Blow Description D7 - Surface to 4.75
5SD - No Return
77 - Surface to 6.25"
7SD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>80'</u>	<u>Oil Spotted Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 80' BHT 102° Gravity - API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 1851 Test 1800 Ruined Shale Packer
 Initial Flow 16 to 40 Jars 300 Ruined Packer
 Initial Shut-In 1074 Circ Sub Hotel
 Final Flow 42 to 77 Hourly Standby EM Tool Successful
 Final Shut-In 1046 Mileage 5627 98 Accessibility
 Final Hydrostatic 1840 Sampler Gas Sample
 T-On Location 18:12 Straddle Oversized Hole
 Initial Flow 15 T-Started 18:55 Shale Packer Sub Total 0
 Initial Shut-In 30 T-Open 21:20 Extra Packer Total 2198
 Final Flow 30 T-Pulled 23:05 Extra Recorder Tool Loaded @
 Final Shut-In 30 T-Out 06:17 Day Standby MP/DST Disc't

Comments mileage from Scott City shops

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **72452**

Well Name & No. Wells #2-27 Test No. 2 Date 11/12/2024
 Company Shakespeare Oil Company Inc Elevation 3206 KB 3196 GL
 Address 202 W Main St Salem Id 62881 +1519
 Co. Rep / Geo Kend Matson Rig Duke #4
 Location: Sec. 27 Twp 16S Rge. 35W Co. Wichita State KS

Interval Tested 3984' - 4050' Zone Tested Toronto - LKC 'a'
 Anchor Length 66' Drill Pipe Run 3961' Mud Wt. 9.0
 Top Packer Depth 3979' Drill Collars Run - Vis 54
 Bottom Packer Depth 3984' Wt. Pipe Run - WL 10.0
 Total Depth 4050' Chlorides 9100 ppm System LCM 2#

Blow Description 57- Surface to 5.75"
58- No Return
77- Surface to 8"
78- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>70'</u>	<u>WCM</u>		<u>15</u>	<u>85</u>	
<u>60'</u>	<u>SWCM</u>		<u>5</u>	<u>95</u>	
<u>40'</u>	<u>Mud w/oil spots (heavy)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 170' BHT 105° Gravity - API RW 251 @ 53 °F Chlorides 41,000 ppm

Initial Hydrostatic 1926 Test 1950 Ruined Shale Packer
 Initial Flow 21 to 48 Jars 300 Ruined Packer
 Initial Shut-In 1067 Circ Sub Hotel
 Final Flow 50 to 94 Hourly Standby EM Tool Successful
 Final Shut-In 1025 Mileage 5627 98 Accessibility
 Final Hydrostatic 1925 Sampler Gas Sample
 T- On Location 14:40 Straddle Oversized Hole
 Initial Flow 15 T-Started 15:36 Shale Packer Sub Total 0
 Initial Shut-In 30 T-Open 17:38 Extra Packer Total 2348
 Final Flow 30 T-Pulled 19:33 Extra Recorder Tool Loaded @
 Final Shut-In 40 T-Out 21:41 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **72453**

Well Name & No. Wells # 2-27 Test No. 3 Date 11/13/2024
 Company Shakespeare Oil Company Inc Elevation 3206 KB 3196 GL
 Address 202 W Main St Salina OK 62881 +1579
 Co. Rep / Geo Kent Matson Rig Dupke #4
 Location: Sec. 27 Twp 16S Rge. 35W Co. Wichita State KS

Interval Tested 4115' - 4135' Zone Tested LKC D
 Anchor Length 20' Drill Pipe Run 4116' Mud Wt. 9.05
 Top Packer Depth 4110' Drill Collars Run - Vis 57
 Bottom Packer Depth 4115' Wt. Pipe Run - WL 6.8
 Total Depth 4135' Chlorides 10,500 ppm System LCM 2H

Blow Description D7 - Surface to 1"
DS - No Return
77 - Surface to 1"
7SD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
30	Mud			100%	

Rec Total 30' BHT 105° Gravity - API RW - @ - °F Chlorides - ppm

Initial Hydrostatic 2009 Test 1950 Ruined Shale Packer
 Initial Flow 13 to 23 Jars 300 Ruined Packer
 Initial Shut-In 1073 Circ Sub Hotel
 Final Flow 24 to 35 Hourly Standby EM Tool Successful
 Final Shut-In 1042 Mileage 5627 98 Accessibility
 Final Hydrostatic 1939 Sampler Gas Sample
 T-On Location 12:38 Straddle Oversized Hole
 Initial Flow 15 T-Started 13:11 Shale Packer Sub Total 0
 Initial Shut-In 30 T-Open 14:58 Extra Packer Total 2348
 Final Flow 30 T-Pulled 16:43 Extra Recorder Tool Loaded @
 Final Shut-In 30 T-Out 18:30 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **72454**

Well Name & No. Wells #2-27 Test No. 4 Date 11/14/2024
 Company Shakespeare Oil Company Inc Elevation 3206' KB 3196' GL
 Address 202 W Main St Salem MO 62881+1519
 Co. Rep / Geo Kent Matson Rig Dupe #4
 Location: Sec. 27 Twp 16S Rge. 35W Co. Wichita State KS

Interval Tested 4196'-4260' Zone Tested LKC H - D
 Anchor Length 64' Drill Pipe Run 4177 Mud Wt. 9.15
 Top Packer Depth 4191' Drill Collars Run - Vis 58
 Bottom Packer Depth 4196' Wt. Pipe Run - WL 10.0
 Total Depth 4260' Chlorides 11,800 ppm System LCM 2#

Blow Description 17- Surface to 1.5"
151- No Return
77- Surface to 1.5"
751- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30'</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30' BHT 106° Gravity - API RW - @ - °F Chlorides - ppm

Initial Hydrostatic 2055 Test 1950 Ruined Shale Packer
 Initial Flow 21 to 25 Jars 300 Ruined Packer
 Initial Shut-In 1067 Circ Sub Hotel
 Final Flow 26 to 36 Hourly Standby EM Tool Successful -175
 Final Shut-In 920 Mileage 5627 98 Accessibility
 Final Hydrostatic 1993 Sampler Gas Sample
 T- On Location 11:33 Straddle Oversized Hole
 Initial Flow 15 T-Started 12:16 Shale Packer Sub Total -175
 Initial Shut-In 30 T-Open 14:20 Extra Packer Total 2173
 Final Flow 30 T-Pulled 16:05 Extra Recorder Tool Loaded @
 Final Shut-In 30 T-Out 18:11 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **72455**

Well Name & No. Wells # 2-27 Test No. 5 Date 11/15/2024
 Company Shakespeare Oil Company, Inc Elevation 3206 KB 3196 GL
 Address 202 W Main St Salem MO 62881 + 1519
 Co. Rep / Geo Kent Matson Rig Duke #4
 Location: Sec. 27 Twp 16S Rge. 35W Co. Wichita State KS

Interval Tested 4266' - 4315' Zone Tested LKC J-K
 Anchor Length 49' Drill Pipe Run 4244' Mud Wt. 9.15
 Top Packer Depth 4261' Drill Collars Run - Vis 58
 Bottom Packer Depth 4266' Wt. Pipe Run - WL 10.0
 Total Depth 4315' Chlorides 11800 ppm System LCM 2#

Blow Description 7' - Surface to 5.25"
SD - Surface Blow
7'7" - Surface to 7.25"
7SD - Weak Surface Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>100'</u>	<u>MCW</u>		<u>85</u>	<u>15</u>	
<u>60'</u>	<u>SWCM</u>		<u>5</u>	<u>95</u>	
<u>40'</u>	<u>VSOCM</u>	<u>1</u>		<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 200' BHT 110° Gravity - API RW 239 @ 55 °F Chlorides 39,000 ppm

Initial Hydrostatic 2049 Test 1950 Ruined Shale Packer
 Initial Flow 20 to 42 Jars 300 Ruined Packer
 Initial Shut-In 1207 Circ Sub Hotel
 Final Flow 45 to 97 Hourly Standby EM Tool Successful -350
 Final Shut-In 1200 Mileage 56R7 98 Accessibility
 Final Hydrostatic 2045 Sampler Gas Sample
 T- On Location 04:01 Straddle Oversized Hole
 Initial Flow 15 T-Started 04:35 Shale Packer Sub Total -350
 Initial Shut-In 30 T-Open 07:00 Extra Packer Total 1998
 Final Flow 30 T-Pulled 08:55 Extra Recorder Tool Loaded @
 Final Shut-In 40 T-Out 11:08 Day Standby MP/DST Disc't

Comments _____

Approved By _____ Our Representative [Signature]

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

No. Wells #2-27 Test No. 6 Date 11/16/2024
 Company Shakespeare Oil Company Inc Elevation 3206' KB 3196' GL
 Address 202 W Main St Salem Id 62881+1519
 Co. Rep / Geo Kent Matson Rig Duke #41
 Location: Sec. 27 Twp 16S Rge. 35W Co. Wichita State KS

Interval Tested 4444' - 4510' Zone Tested Marmaton A-B-C
 Anchor Length 66' Drill Pipe Run 4432' Mud Wt. 9.1
 Top Packer Depth 4439' Drill Collars Run - Vis 63
 Bottom Packer Depth 4444' Wt. Pipe Run - WL 8.0
 Total Depth 4510' Chlorides 10,000 ppm System LCM 2H

Blow Description 17 - Surface to 1' 1"
JSJ - No Return
47 - Surface to 2.25"
7SD - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>GMCO</u>	<u>10</u>	<u>75</u>	<u>15</u>	
<u>15'</u>	<u>G.O</u>	<u>10</u>	<u>90</u>		
	<u>30' GTP</u>	<u>100</u>			

Rec Total 30' BHT 106° Gravity 24° API RW - @ - °F Chlorides - ppm
 Initial Hydrostatic 2171 Test 1950 Ruined Shale Packer
 Initial Flow 22 to 29 Jars 300 Ruined Packer
 Initial Shut-In 1191 Circ Sub Hotel
 Final Flow 29 to 30 Hourly Standby EM Tool Successful -350
 Final Shut-In 1072 Mileage 5627 98 + 98 Accessibility
 Final Hydrostatic 2158 Sampler Gas Sample

T- On Location 13:17 Straddle Oversized Hole
 Initial Flow 15 T-Started 14:08 Shale Packer Sub Total 1700 - 350
 Initial Shut-In 30 T-Open 16:23 Extra Packer Total 3796
 Final Flow 30 T-Pulled 18:08 Extra Recorder 1d 3h 2d 14h Tool Loaded 11/19 @ 10:00
 Final Shut-In 30 T-Out 20:27 Day Standby X3+14hrs MP/DST Disc't

Comments 1 Day Standby between Dst 5 & 6 ; 2 Days and 14hrs after Dst #6

Approved By _____ Our Representative [Signature]

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

Well Name: WELLS
Well Id: #2-27
Location: 1540' FSL, 1360' FWL, SW/4 Sec 27-T16S-R35W, Wichita County, Kansas
License Number: API: 15-203-20394 Region: Wichita County
Spud Date: 11/06/2024 Drilling Completed: 11/18/2024
Surface Coordinates: NAD83
Lat: 38.6315408; Long: -101.1790208
Bottom Hole
Coordinates: Vertical hole
Ground Elevation (ft): 3197' K.B. Elevation (ft): 3206'
Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4897'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

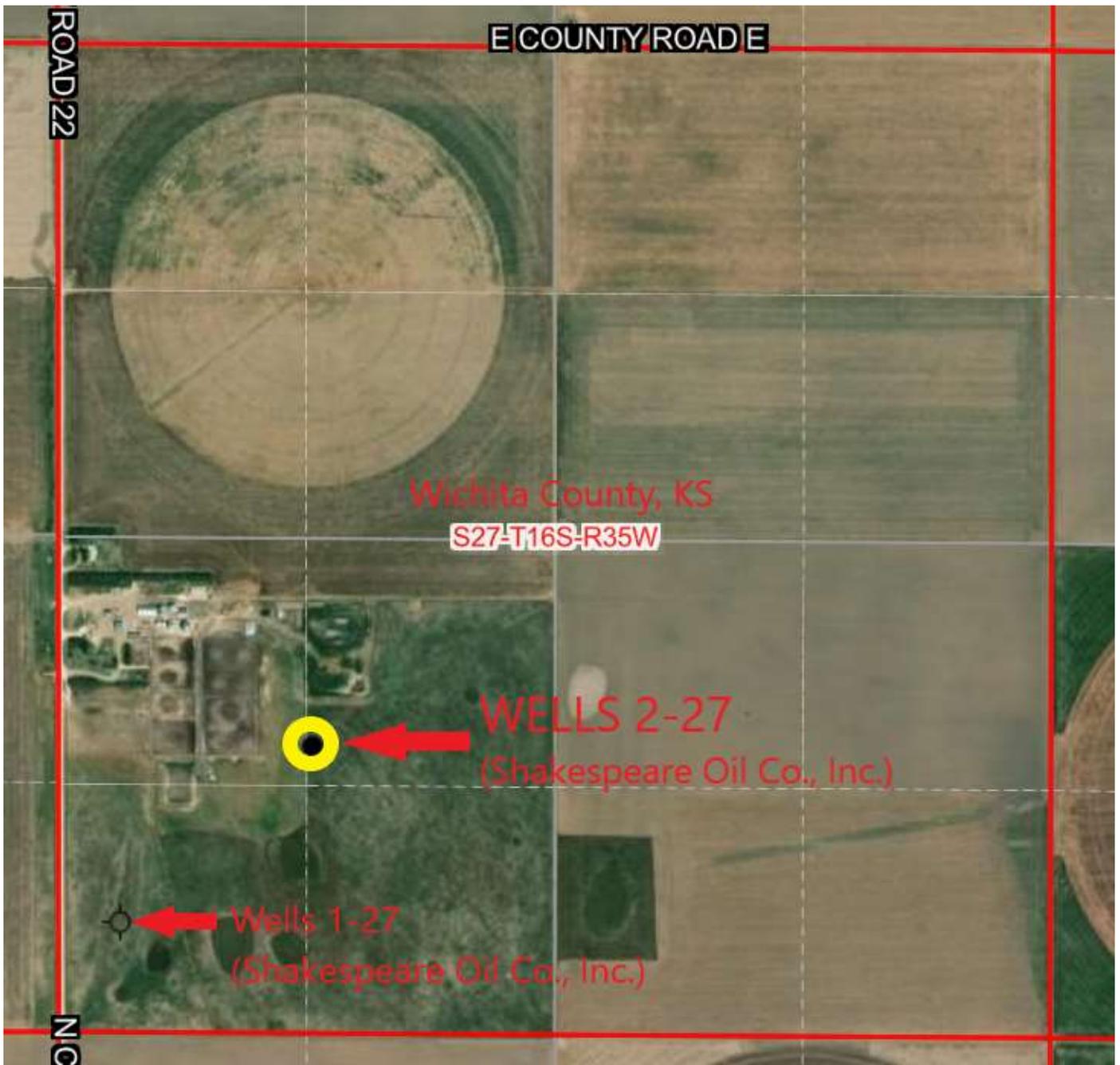
Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

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



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 236' (KB) w/175sx cement.

Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation, the well was converted to a saltwater disposal well and 5.5" production casing was installed.

Mud by: Mud-Co/Service Mud, Inc.; Justin Whiting, 620-214-3630 (cell); Gary Schmidtberger, 785-259-2757 (cell); Reid Atkins 785-694-3741 (cell).

DST's by: Trilobite Testing; Spencer Staab, 785-259-0056 (cell).

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

RTD= 4897'

LTD= 4898'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Stotler	3617'	-411	3620'	-414
Heebner Shale	3988'	-782	3990'	-784
Lansing	4032'	-826	4034'	-828
Muncie Creek Shale	4200'	-994	4204'	-998
Stark Shale	4298'	-1092	4299'	-1093
Hushpuckney Shale	4346'	-1140	4348'	-1142
Base of KC	4390'	-1184	4390'	-1184
Marmaton	4450'	-1244	4452'	-1246
Pawnee	4524'	-1318	4526'	-1320
Myrick Station	4565'	-1359	4566'	-1360
Fort Scott	4578'	-1372	4580'	-1374
Cherokee Shale	4606'	-1400	4608'	-1402
Johnson	4669'	-1463	4673'	-1467
Morrow	4742'	-1536	4743'	-1537
Mississippian	4808'	-1602	4808'	-1602
RTD	4897'	-1691		
LTD			4898'	-1692

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

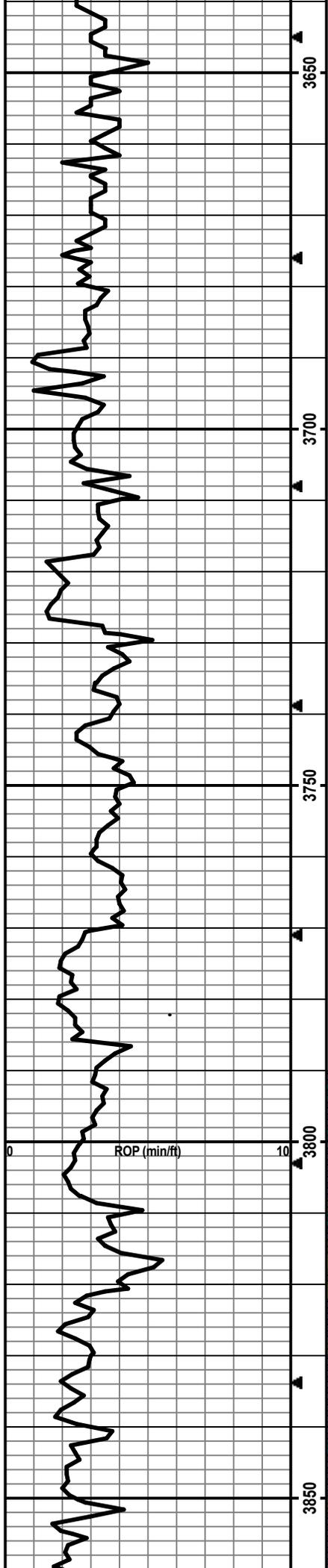
	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite

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
	Hvymn
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Chlorite
	Dol
	Sand
	Sity

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>Morning Report Depth/Activity (7:00 am) 11/06/2024: MIRU, spud @ 05:15pm. Set surface casing @ 237'. 11/07: WOC. 11/08: Drilling @ 1220'. 11/09: Drilling @ 2400'. 11/10: Drilling @ 3410'. 11/11: Drilling @ 4230'. 11/12: Drilling @ 3989'. 11/13: CFS @ 4101'. 11/14: CFS @ 4230'. 11/15: TH w/tool for DST #5 @ 4315'. 11/16: CFS and working on mud pump @ 4486'. 11/17: Drilling @ 4555'. 11/18: Drilling @ 4740'. Reached 4897' TD @ 10:13pm. 11/19: Electric logged.</p> <p>Anhydrite: Drill Time (ROP) Top @ 2484' (+722), Base @ 2505' (+701). E-Log Top @ 2484' (+722), Base @ 2504' (+702).</p> <p>ROP Data begins @ 3500' on 11/10/2024. Recorded from drillers geograph record, and geologist's auto-reader switch on geograph.</p>	<p>Mud-Co/Service Mud Inc. Check #1 @ 0' 11/05/24, predrilling instructions.</p> <p>Mud-Co/Service Mud Inc. Check #2 @ 237' 11/07/24 08:45am No mud parameters taken. Rig WOC.</p> <p>Mud-Co/Service Mud Inc. Check #3 @ 1329' 11/08/24 08:40am wt vis pH chl 9.0 28 7.0 890 Filt LCM n/c 2</p> <p>Mud-Co/Service Mud Inc. Check #4 @ 2597' 11/09/24 12:10pm wt vis pH chl 9.7 29 7.0 29000 Filt LCM n/c 2</p> <p>Mud-Co/Service Mud Inc. Check #5 @ 3457' 11/10/24 08:30am wt vis pH chl 9.7 29 7.0 31000 Filt LCM n/c 2</p> <p>Displaced drilling mud @ 3457-3465'.</p> <p>Bit Trip @ 3548' conn; replaced PDC bit with Tricone bit.</p> <p>Pipe strap TOH for Bit Trip @ 3548' was 2.31' long to the board.</p> <p>Mud-Co/Service Mud Inc. Check #6 @ 3805' 11/11/24 06:15am wt vis pH chl 8.8 56 11 8200 Filt LCM 5.8 2</p> <p>Mud-Co/Service Mud Inc. Check #7 @ 4050' 11/12/24 11:50am wt vis pH chl 9.0 54 11 9100 Filt LCM 10 2</p> <p>Mud-Co/Service Mud Inc. Check #8 @ 4135' 11/13/24 10:25am wt vis pH chl 9.0 57 11 10500 Filt LCM 6.8 2</p> <p>Mud-Co/Service Mud Inc. Check #9 @ 4260' 11/14/24 09:45am wt vis pH chl 9.2 58 11.5 11800 Filt LCM 10 2</p>



Geologist on location @ 3654', 11/10/2024.

Mud-Co/Service Mud Inc. Check #10 @4315' 11/15/24 10:15am
wt vis pH chl
9.2 59 11 9000
Filt LCM
9.6 2

Mud-Co/Service Mud Inc. Check #11 @4491' 11/16/24 09:10am
wt vis pH chl
9.1 63 11.5 10000
Filt LCM
8.0 2

Mud-Co/Service Mud Inc. Check #12 @4570' 11/17/24 09:00am
wt vis pH chl
9.2 67 10 11000
Filt LCM
9.6 2

Mud-Co/Service Mud Inc. Check #13 @4708' 11/18/24 04:10am
wt vis pH chl
9.4 67 9 10000
Filt LCM
10.4 1

Survey Record

Deg @ Ft
0.00 @ 237'
0.75 @ 836'
0.75 @ 1181'
0.25 @ 1682'
0.75 @ 2180'
0.75 @ 2681'
0.50 @ 3550'
0.50 @ 4260'
0.50 @ 4897'

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 10' intervals start at 3800'.

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

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

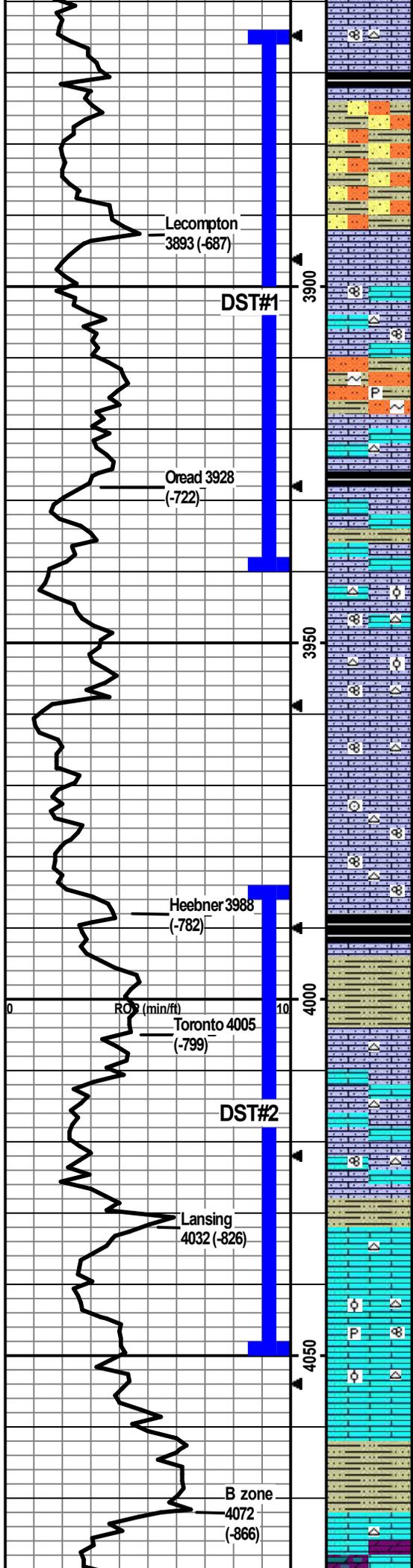
LS: cm/lt bm/lt-m gry, vf-m xtal, vry silty/sndy/arg, chalky, foss frags/crin/fusln/ool, no vis por, no odor, ns.
SH: lt-dk gry/red-brn, silty/sndy, carb, soft-firm. SS: lt gry/lt red-brn, vf-f, sr-wr, arg, carb matrix, soft, friable, no odor, ns.

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

LS: cm/lt bm/min lt gry, vf-m xtal, chalky, silty/sndy, min dolomitic, foss frags/crin/ool, vf-f in-xtal por, no odor, ns.

LS: cm/lt-m gry/lt bm, vf-m xtal, mostly silty/sndy, chalky, min wht/lt gry tripolitic chert, foss frags, min vf in-xtal por, no odor, ns.

LS: cm/min lt bm/min lt gry, vf-f xtal, silty/sndy, chalky, min dolo, min wht tripolitic chert, foss frags, min vf-f dolo in-xtal por, no odor, ns.



LS: cm/lt bm, vf-m xtal, silty/sndy, chalky, min dolo, min wht tripolitic foss chert, foss frags/fusln, vf-f in-xtal por, no odor, ns.

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

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

LS: cm/lt bm/lt-m gry, vf-m, silty/sndy/arg, chalky, foss frags, 4 pcs w/sfo w/vf-f in-xtal por, slt cup sheen, dul yel fluor, no odor, sfo.

LS: cm/lt bm/min lt gry, micro-m xtal, some silty/sndy, chalky, wht foss chert, foss frags/fusln, 26 pcs w/sfo w/vf-m in-xtal por, slt cup sheen, dul yel fluor, no odor, sfo.

SH: lt-dk gry, vry silty/sndy, glauc, pyrite, carb, soft-firm. Sltstn: lt gry, vf, arg, glauc, carb, friable, no odor, ns. (LS show from above, slt rainbow on cup water.)

LS: cm/lt bm/min lt gry, vf-m xtal, some silty/sndy, chalky, min wht chert, foss frags, 16 pcs w/sfo w/vf-f in-xtal por, slt cup sheen, dul yel fluor, no odor, sfo.

LS: cm/lt bm/min lt gry, micro-m xtal, some silty/sndy, chalky, foss frags, 22 pcs w/sfo w/ppt-f in-xtal por, slt cup sheen, no fluor, no odor, sfo.

LS: cm/lt bm, micro-m xtal, chalky, some silty/sndy, gd amt wht foss chert, foss frags/fusln/dense ool, 4 pcs w/blk tar/min fo, vf-f in-xtal por, no fluor, no odor, sfo.

LS: cm/lt bm/lt gry, vf-m xtal, silty/sndy, some chalky, wht foss chert, foss frags/fusln/dense ool, 4 pcs w/sfo/blk tar, vf-f in-xtal por, no fluor, no odor, sfo.

LS: cm/lt bm/lt gry, micro-m xtal, chalky, silty/sndy, wht chert, foss frags/fusln, 6 pcs w/mostly blk tar/min fo, vf-f in-xtal por, no fluor, no odor, slt sfo.

LS: cm/lt bm/lt gry, vf-m xtal, chalky, silty/sndy, min wht/cm chert, foss frags/crin/fusln, vf-m in-xtal/in-fusln por, no odor, ns.

LS: cm/lt bm/lt gry, vf-m xtal, silty/sndy, chalky, min wht chert, foss frags/fusln, vf-f in-xtal w/mid in-fusln por, no odor, ns.

SH: blk, slt carb, firm, fissile.

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

LS: wht/cm/lt bm/lt gry, vf-m xtal, silty/sndy, chalky, min wht chert, foss frags, 7 pcs w/sfo w/vf-f in-xtal por, dul yel fluor, no odor, sfo.

LS: wht/cm/lt bm/lt gry, micro-m xtal, some chalky, some silty/sndy, wht chert, foss frags, 45 pcs w/sfo/staining w/vf-crs in-xtal por, dul yel fluor, no odor, gd sfo.

LS: wht/cm/lt bm, micro-m xtal, some chalky, some silty/sndy, wht chert, foss frags/min fusln, 13 pcs w/sfo w/vf-f in-xtal por, dul yel fluor, no odor, sfo.

LS: wht/cm, micro-f xtal, some chalky, wht chert, min foss frags, 24 pcs w/sfo w/vf-m in-xtal por, slt sheen on cup water, no fluor, no odor, sfo.

LS: wht/cm/lt bm/min lt gry, micro-m xtal, some chalky, wht chert, min pyrite, foss frags/fusln/ool, 18 pcs w/sfo, min chalk w/blk tar, vf-m in-xtal/in-ool por, no fluor, no odor, sfo.

LS: cm/min lt gry, micro-m xtal, min chalky, wht chert, min foss frags/ool, 4 pcs w/staining/sfo/blk tar, vf-m in-xtal/in-ool por, no fluor, no odor, sfo.

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

LS: wht/cm, micro-m xtal, min chalky, min wht chert, min foss frags, 41 pcs w/mostly tar/min fo, vf-crs in-xtal por, no fluor, no odor, sfo.

LS: wht/cm/lt bm/lt gry, micro-m xtal, some chalky, lt gry/lt bm sucrosic dolo,

**DST1) 3864-3940
Lecompton & Oread**

15/30/30/30
1st) Blow built to 4.75"; No BB.
2nd) Blow built to 6.25"; No BB.
IFP 17-41#
ISIP 1074#
FFP 42-77#
FSIP 1046#
HP 1852-1840#
Recvd: 80' Mud w/oil spots (100%M).

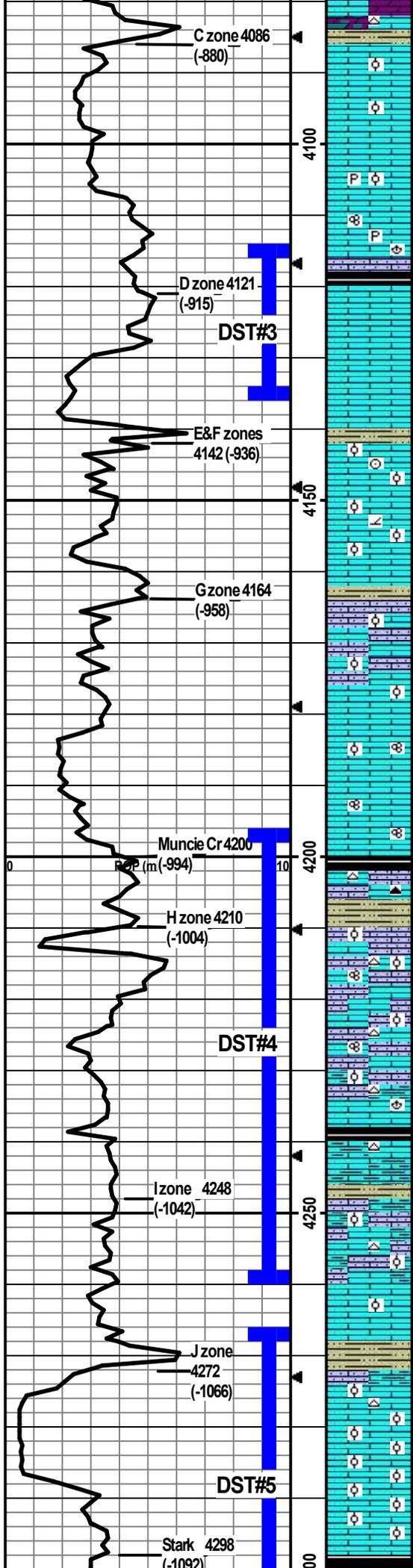
CFS @ 3940'
Stop/30"/60"

**DST2) 3984-4050
Toronto & Lansing
A-zone**

15/30/30/40
1st) Blow built to 5.75"; No BB.
2nd) Blow built to 8"; No BB.
IFP 21-48#
ISIP 1068#
FFP 51-95#
FSIP 1025#
HP 1927-1926#
Recvd: 170' Total Fluid; 40' Mud w/oil spots-tarry (100%M), 60' WM (5%W, 95%M), 70' WM (15%W, 85%M).

CFS @ 4020'
Stop/30"/60"

CFS @ 4050'
Stop/30"/60"



C zone 4086 (-880)

D zone 4121 (-915)

E&F zones 4142 (-936)

G zone 4164 (-958)

Muncie Cr 4200 BOP (m) (-994)

H zone 4210 (-1004)

I zone 4248 (-1042)

J zone 4272 (-1066)

Stark 4298 (-1092)

DST#3

DST#4

DST#5

min wht chert, min foss frags, 17 pcs w/mostly tar/min fo, vf-m in-xtal por, no fluor, no odor, sfo.

LS: wht/cm/min lt bm, micro-m xtal, some chalky, min foss frags/ool, ~5% of smpl w/mostly tar/some fo, vf-crs in-xtal por, no fluor, no odor, sfo.

LS: same as above w/27 pcs w/tar/sfo.

LS: wht/cm/lt bm, micro-m xtal, some chalky, min pyrite, foss frags/min ool, 15 pcs w/mostly tar/min fo, vf-m in-xtal por, no fluor, no odor, sfo.

LS: wht/cm/lt bm, micro-m xtal w/crs 2dry xtal, chalky, min silty/sndy, min pyrite, min foss frags/fusln/brac, 14 pcs w/mostly tar/min fo, vf-m in-xtal por, no fluor, no odor, sfo.

LS: cm/lt bm/min lt gry, micro-m xtal, some chalky, min foss frags, 36 pcs w/sfo, ppt-crs in-xtal por, no fluor, gd odor, sfo.

LS: cm/lt-m bm/lt gry, vf-m xtal/crs 2ndry xtal, some chalky, min foss frags, 29 pcs w/sfo, ppt-crs in-xtal por, no fluor; sheen on smpl water, gd odor, sfo.

LS: wht/cm/lt bm, micro-m xtal, some chalky, foss frags/crin/ool, 7 pcs w/sfo w/vf-f in-xtal/in-ool por, no fluor, no odor, sfo.

LS: wht/cm, micro-m xtal, some chalky, min dolo, foss frags/ool, 8 pcs w/sfo/some tar, vf-f in-xtal por, no fluor, no odor, sfo.

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

LS: wht/cm/lt gry/min lt bm, micro-m xtal/2ndry crs xtal, min silty/sndy, some chalky, foss frags/ool, min vf-m in-xtal/in-ool por, no odor, ns.

LS: wht/cm/lt gry/min lt bm, micro-m xtal, some chalky, min foss frags/fusln/ool, min vf-m in-xtal/in-oo/in-fusln por, no odor, ns.

LS: wht/cm/lt gry, micro-crs xtal, some chalky, foss frags/fusln, f-crs in-xtal por, no odor, ns.

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

LS: cm/lt gry/lt bm, micro-crs xtal, some chalky, some silty/sndy, min dk bm/gry chert, 4 pcs w/stain/sfo, ppt-f in-xtal por, no fluor, slt odor, slt sfo.

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

LS: cm/lt bm/lt gry, micro-m xtal, some chalky, some silty/sndy, wht chert, foss frags/fusln/ool, 19 pcs w/sfo, vf-m in-xtal/in-ool por, dul yel fluor, slt odor, sfo.

LS: cm/lt bm/lt gry, micro-m xtal, some chalky, some silty/arg, wht/lt gry chert, foss frags/ool/brac, 6 pcs w/sfo, ppt-m in-xtal por, dul yel fluor, slt odor, sfo.

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

LS: cm/lt-m bm/lt gry, micro-m xtal, some chalky, some arg, min wht chert, foss frags, 4 pcs w/sfo, vf-m in-xtal por, slt odor, sfo.

LS: cm/lt-m bm/lt gry, micro-m xtal, chalky, some silty/arg, min wht/gry chert, foss frags/ool, 14 pcs w/stain/sfo, ppt-f in-xtal/in-ool/frac por, dul yel fluor, slt odor, sfo.

LS: cm/lt-m bm/lt gry, micro-m xtal, chalky, foss frags/min ool, 13 pcs w/sfo, ppt-f in-xtal por, dul yel fluor, slt odor, sfo.

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

LS: wht/cm/lt bm/lt gry, micro-m xtal, min silty/arg, chalky, min wht chert, foss frags/ool, 13 pcs w/sfo, vf-f in-xtal/in-ool por, dul yel fluor, slt odor, sfo.

LS: wht/cm/lt bm, micro-m xtal, min chalky, foss frags/abund ool, 10-15% of smpl w/sfo, f-crs/vug in-xtal/in-ool/oo-castic por, dul yel fluor, fo on cup water, stg odor, sfo.

LS: as above, 5-10% of smpl w/stain/sfo, fo on cup water, stg odor, sfo.

CFS @ 4085 Stop/30"/60"

CFS @ 4101 Stop/30"/60"

DST3) 4115-4135 Lansing D-zone

15/30/30/30
1st) Blow built to 1"; No BB.
2nd) Blow built to 1"; No BB.
IFP 13-23#
ISIP 1073#
FFP 25-36#
FSIP 1043#
HP 2010-1940#
Recvd: 30' Mud (100%M).

CFS @ 4135 Stop/30"/60"

CFS @ 4155 Stop/30"/60"

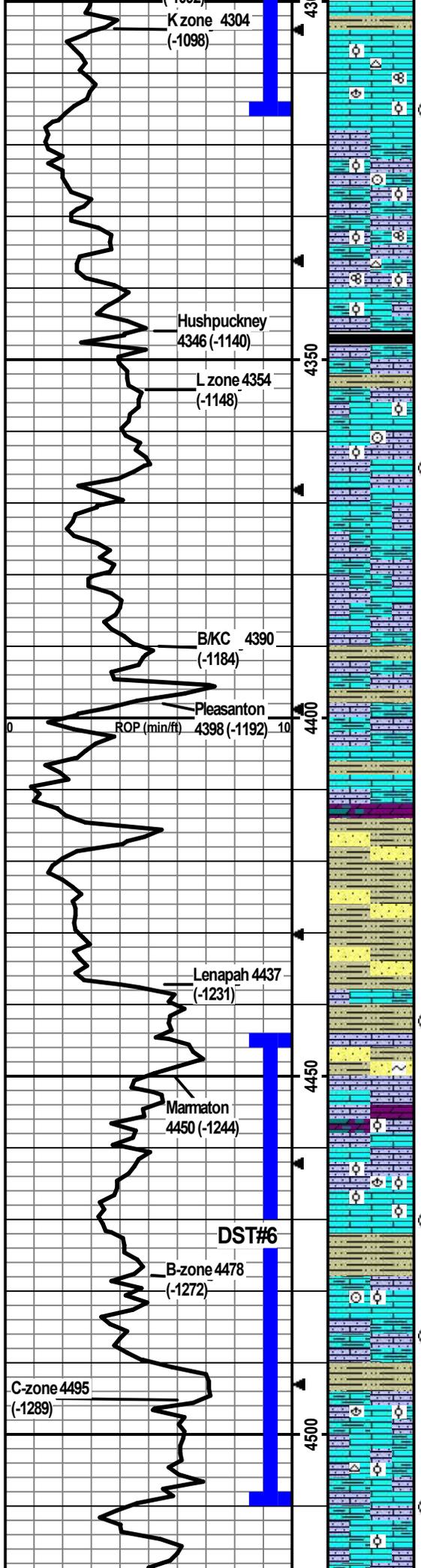
DST4) 4196-4260 Lansing H & I-zones

15/30/30/30
1st) Blow built to 1.5"; No BB.
2nd) Blow built to 1.5"; No BB.
IFP 22-25#
ISIP 1068#
FFP 27-37#
FSIP 920#
HP 2055-1993#
Recvd: 30' Mud (100%M).

CFS @ 4230 Stop/30"/60"

CFS @ 4260 Stop/30"/60"

CFS @ 4290 Stop/30"/60"



SH: lt-dk gry/bl/red-bm/gry-green, some silty/sndy, silt carb, soft-firm.
 LS: cm/lt bm/min lt gry, micro-m xtal, min arg/silty, some chalky, wht chert, foss frags/fush/ool/some grainy, vf-m in-xtal/in-ool por, m-crs oo-castic por, 7 pcs w/sfo w/ppt-f in-xtal por, dul yel fluor, no odor, sfo.

LS: wht/cm/lt brn/lt gry, micro-m xtal, chalky, foss frags/brac/ool, min med oo-castic por, 4 pcs w/sfo w/ppt-m in-xtal por, dul yel fluor, no odor, sfo.

LS: cm/lt gry/lt brn, micro-crs xtal, smpl vry chalky, silty/sndy/arg, foss frags/crin/ool, 23 pcs w/stain/sfo, f-crs/vug in-xtal/in-ool/oo-castic por, dul yel fluor, gd odor, sfo.

LS: cm/lt bm/lt gry, micro-crs xtal, silty/sndy/arg, smpl vry chalky, min wht/cm chert, foss frags/fush/ool, 7 pcs w/stain/sfo, vf-crs/vug in-xtal/in-ool por, dul yel fluor, gd odor, sfo.

LS: cm/lt bm/lt gry, micro-m xtal, smpl vry chalky, some silty/sndy/arg, foss frags/ool, no vis por, no odor, ns.
 SH: blk, silt silty, carb, firm.
 SH: lt-dk gry/dk brn/blk, some silty, some foss, carb, soft-firm.
 LS: wht/cm/lt-m brn/lt gry, micro-m xtal, some chalky, some silty/sndy, foss frags/ool, 9 pcs w/stain/sfo w/vf-crs/vug in-xtal/in-ool por, yel fluor, silt odor, sfo.

LS: wht/cm/lt-m brn/lt gry, micro-m xtal, chalky, some silty/sndy/arg, foss frags/crin/ool, 7 pcs w/stain/sfo w/vf-crs/vug in-xtal/in-ool por, dul yel fluor, silt odor, sfo.

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

LS: cm/lt brn/lt-m gry, chalky, some silty/arg, foss frags, no vis por, no odor, ns.

LS: cm/lt-m brn/lt-m gry, micro-m xtal, chalky, silty/sndy/arg, foss frags, no vis por, no odor, ns.
 SH: lt-dk gry/dk brn/gry-green, some silty, carb, soft.

LS: cm/lt gry/lt-m brn, micro-m xtal, chalky, some silty/sndy/arg, foss frags, no vis por, no odor, ns.
 LS: cm/lt gry/lt brn/dk gry incls, micro-m xtal, chalky, some silty/sndy/arg, foss frags/fush, no vis por, no odor, ns. Dolo: cm/lt brn/lt gry, vf, sucrosic, vf-f in-xtal por, no odor, ns.

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

Cont. SH/SS as above, no odor, ns.

LS: cm/lt-m brn, micro-m xtal, chalky, some silty/arg, foss frags, no vis por, no odor, ns.
 SH: lt-m gry/gry-green, some silty/sndy, carb, soft. SS: lt gry, vf-f, sr-wr, pred qtz, min glauc, arg, friable, no odor, ns.

LS: cm/lt brn, micro-m xtal, some silty/sndy, some chalky, some lt brn/lt gry sucrosic dolo, foss frags/ool, ppt-f in-xtal por, 2 pcs w/dk brn tar/min sfo w/vf-f in-xtal/frac por, no odor, silt sfo.

LS: cm/lt brn/lt gry, micro-m xtal, some silty/sndy, chalky, foss frags/brac/ool, 11 ool pcs w/sfo w/vf-m in-ool por, no odor, sfo.

LS: as above, 15 ool pcs w/sfo, no odor.
 SH: lt-dk gry/dk red-bm/gry-green, some silty, carb, soft-firm.

LS: cm/lt brn/min lt gry, micro-m xtal, some chalky, some silty/arg, foss frags/crin/in dense ool, no vis por, no odor, ns. (8 ool pcs w/sfo assume from MarmA).

LS: cm/lt brn/lt gry, micro-m xtal, some chalky, some silty/arg, foss frags/brac/ool, 4 pcs w/sfo, ppt-m in-xtal/in-ool por, no odor, sfo.

LS: cm/lt brn/lt brn, some chalky, some silty/arg, wht/lt gry chert, foss frags/min dense ool, no vis por, no odor, ns.

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

CFS @ 4315
 Stop/30"/60"

DST5) 4266-4315
Lansing J & K-zones
 15/30/30/40
 1st Blow built to 5.25"; No BB.
 2nd) Blow built to 7.25"; No BB.
 IFP 21-43#
 ISIP 1207#
 FFP 46-97#
 FSIP 1201#
 HP 2050-2045#
 Recvd: 200' total fluid; 40' OM (1%O, 99%M), 60' WM (5%W, 95%M), 100' MW (15%M, 85%W).

CFS @ 4365
 Stop/30"/60"

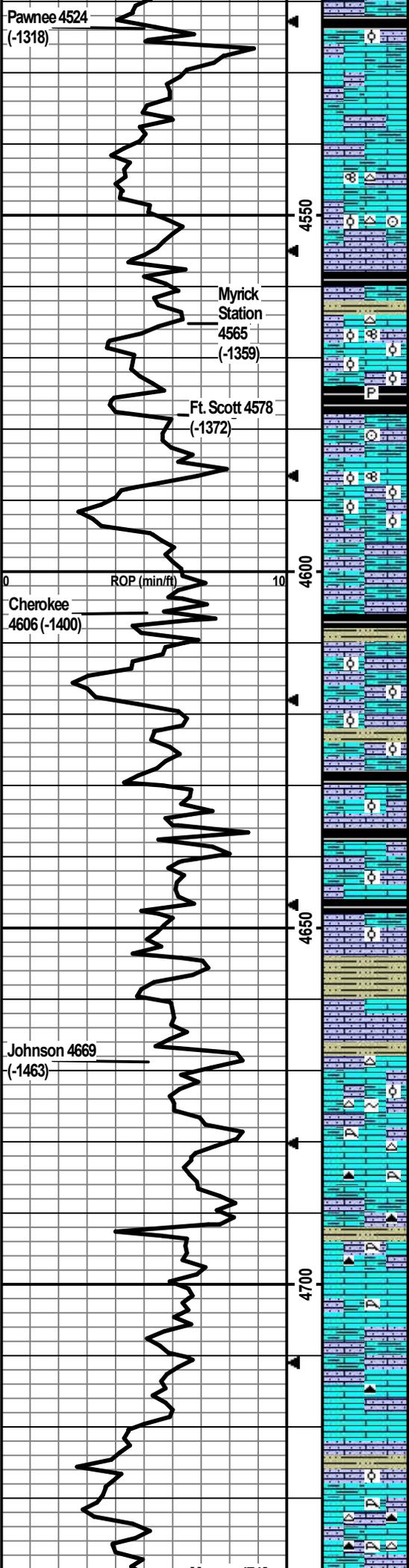
DST6) 4466-4510
Marmaton A, B and C-zones
 15/30/30/30
 1st Blow built to 1"; No BB.
 2nd) Blow built to 2.25"; No BB.
 IFP 23-30#
 ISIP 1191#
 FFP 30-30#
 FSIP 1072#
 HP 2172-2156#
 Recvd: 30' GIP, 15' GO (5%G, 90%O), 15' GMO (10%G, 15%M, 75%O).

CFS @ 4442
 Stop/30"/60"

CFS @ 4470
 Stop/30"/60"

CFS @ 4486
 Stop/30"/60"

CFS @ 4510
 Stop/30"/60"



SH: dk gry/blk, silt carb, firm.

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

LS: wht/cm/lt bm/lt gry, micro-m xtal, min silty/arg, some chalky, foss frags, no vis por, 3 pcs in 60min w/sfo/tar; ppt-m in-xtal por, no odor, silt sfo.

CFS @ 4540'
Stop/30"/60"

LS: cm/lt-m bm/min lt gry, micro-m xtal, some silty/arg, some chalky, some wht/lt bm foss chert, foss frags/fusln, 2 pcs w/stain/sfo, ppt-m in-xtal por, no odor, silt sfo.

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

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

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

1 ool pce in 60min w/stain/sfo, no fluor, m-crs/vug in-ool/oo-castic por.

CFS @ 4570'
Stop/30"/60"

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

SH: dk gry/blk/dk brn mottling, min pyrite, some silty, carb, firm.

LS: cm/lt-m bm/lt-m gry, micro-m xtal, some vry silty/sndy/arg, chalky, foss frags/fusln/crin/abund ool, 2 pcs w/sfo w/ppt-f in-xtal por, no odor, silt sfo.

LS: cm/lt-m bm, micro-m xtal, some silty/arg, some chalky, foss frags/abund ool pcs, no vis por, no odor, ns. (Smpl is flood of green/med gry silty SH).

CFS @ 4595'
Stop/30"/60"

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

SH: lt-dk gry/blk/dk brn/maroon/gry-green, silty, carb, soft-firm.

LS: cm/lt-m bm/lt gry, vf-m xtal, silty/sndy/arg, chalky, foss frags/ool, no vis por, no odor, ns. (Smpl SH flood.)

LS: wht/cm/lt-m gry, vf-m/min crs xtal, silty/sndy/arg, chalky, foss frags/ool, no vis por, no odor, ns. (Smpl cont SH flood.)

CFS @ 4628'
Stop/30"/60"

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

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

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

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

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

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

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

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

CFS @ 4680'
Stop/30"/60"

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

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

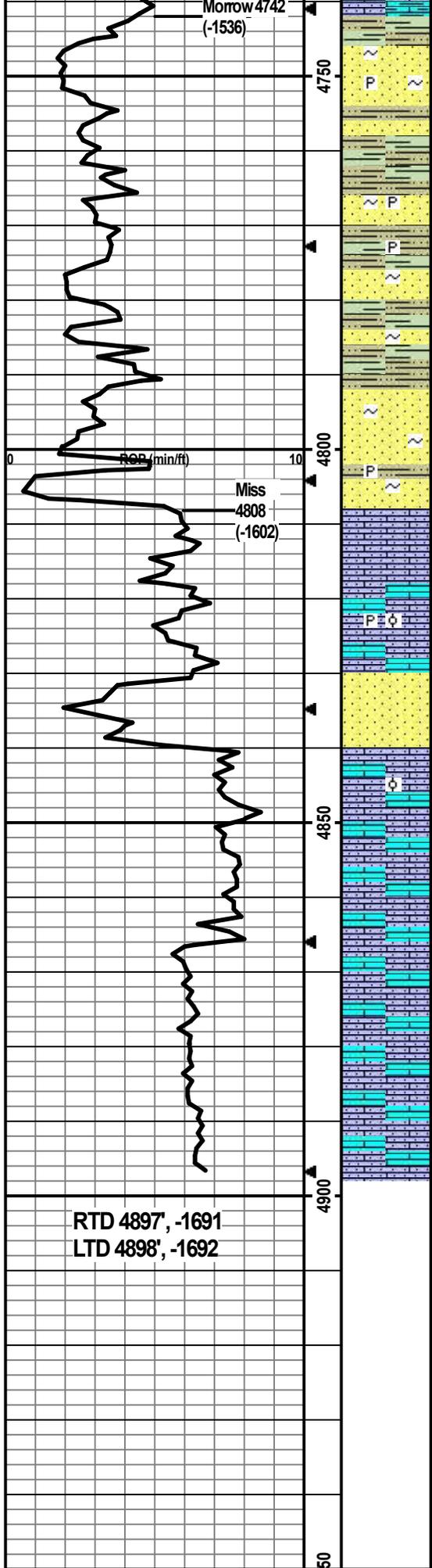
LS: cm/lt-m bm, micro-m xtal, some chalky, min silty/sndy/arg, foss frags/min coral, no vis por, no odor, ns. (Smpl is SH flood.)

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

LS: wht/cm/lt-m bm/min lt-dk gry, micro-m xtal, chalky, some sndy, foss frags/min coral/ool, no vis por, 1 ool pce w/sfo w/ppt-vf in-xtal por, no odor, silt sfo.

LS: wht/cm/lt bm/lt-dk gry, micro-m xtal, some chalky, some silty/arg/sndy, gd amt wht/lt-dk brn/lt-dk gry/orange foss chert, foss frags/coral, min fn coral por, no odor, ns.

CFS @ 4741'



SH: m-dk gry/blk/lt bm/gry-green, some vry silty/sndy, carb, soft-firm. Min SS: wht/lt-dk gry/slt green, qtz, vf-f, sr-wr, arg/carb matrix, min glauc, friable, no odor, ns.

SH: m-dk gry/blk/gry-green/mustard yel, some vry silty/sndy, carb, soft-firm. Min SS: wht/lt-dk gry/lt green, qtz, vf-f, sr-wr, carb matrix, min glauc, min pyrite, friable-hard, no odor, ns.

SH: lt-dk gry/gry-green/mustard yel, some vry silty/sndy, carb, soft-firm. Min SS: wht/lt gry/dk gry, qtz, f-m, sr-wr, slt carb matrix, min pyrite, friable-hard, no odor, ns.

SH: lt-dk gry/gry-green/mustard yel/orange-brn, some silty/sndy, min pyrite, carb, soft-firm; SS: wht/orange stained, f-crs, sr-wr, qtz, min glauc, carb matrix, friable-hard, no odor, ns.

SH: lt-dk gry/gry-green/must yel/orange-brn, some silty/sndy, slt carb, soft-firm. SS: wht/lt gry/dk gry/orange, f-crs, sr-wr, qtz, slt carb matrix, min glauc, friable-hard, no odor, ns.

SH: as above. SS: wht/lt gry, vf-m, sr-wr, qtz, slt carb matrix, glauc, friable-hard, no odor, ns.

SS: wht/cm/lt gry, f-crs, sr-wr, qtz, vry chalky/carb, some glauc, friable, no odor, ns. SH: lt-dk gry/blk/gry-green/must yel, some silty/sndy, min pyrite, slt carb, soft-firm.

LS: wht/cm/min lt bm, vf-m xtal, vry sndy, vry chalky, no vis por, no odor, ns.

LS: wht/cm, micro-m xtal, some vry sndy, some vry chalky, some oolitic, min pyrite, no vis por, no odor, ns.

SS: wht/cm/min lt bm/min lt gry, f-m, sr-wr, qtz, vry chalky/carb matrix, friable, no odor, ns.

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

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

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

LS: wht/cm/lt bm, micro-f xtal, some vry chalky, some vry sndy, no vis por, no odor, ns.

LS: same as above, no odor, ns.

TD @4897' @10:13pm, 11/18/2024.

Stop/30"/60"

CFS @ 4897'
 Stop/30"/60"
 Conducted 7 std short trip,
 CTCH 1.5 hrs, TOH for logging.

RTD 4897', -1691
 LTD 4898', -1692