

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
--	---

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

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	TRACTOR 1-13
Doc ID	1595340

Tops

Name	Top	Datum
Base Anhydrite	2313	+665
Heebner	3901	-923
Lansing	3949	-971
Muncie Creek	4116	-1138
Stark Shale	4215	-1237
Hushpuckney	4251	-1273
Pleasanton	4298	-1320
Pawnee	4421	-1443
Cherokee Shale	4492	-1514
Johnson	4532	-1554
Mississippian	4572	1594

FRANKS Oilfield Service, LLC

815 Main Street
Victoria, KS 67671

Office (785) 639-3949
24 Hour Service Line (785) 639-7269

Email: franksoilfield@yahoo.com

Invoice

Date	Invoice #
8/21/2021	0392

Please Pay from this Invoice.
Remit Payment to:
815 Main Street
Victoria, KS 67671
Billing Questions-Call Tianna at
(785) 639-3949

Bill To
Shakespeare Oil Company, Inc. 202 W. Main St. Salem, IL 62881

INT

County/State	Lease/Well#	Terms	Job Type
Scott Co., KS	Tractor 1-13	Net 30	Surface

Description	Quantity	Rate	Amount
Pump Charge	1	1,150.00	1,150.00
Mileage	78	6.50	507.00
8.89 tons at 78 miles	693.42	1.50	1,040.13
Surface Blend	180	24.50	4,410.00T
25% Discount		-1,776.78	-1,776.78

RECEIVED

OCT 15 2021

Thank you!

*502-5
AR*

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

Subtotal \$5,330.35

We appreciate your business and look forward to serving you again!

Sales Tax (8.5%) \$281.14

Balance Due *DW* \$5,611.49 ✓

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0392
 LOCATION Hoxie KS
 FOREMAN Preston

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-21-21		Tractor 1-13	13	185	32W	Scott

CUSTOMER
Shakespeare Oil Co. Inc.
 MAILING ADDRESS
202 West Main Street
 CITY STATE ZIP CODE
Salem IL 62881

TRUCK #	DRIVER	TRUCK #	DRIVER
101	Preston		
102	Marc V		

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 245' CASING SIZE & WEIGHT 8 5/8' 23#
 CASING DEPTH 245' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8# SLURRY VOL 1.41 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 0.5066 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meetinging up on Duke rd #2, Circular casing mix 180 sacks
Class A 3" occ 2" gel 1/4" fb seal. Cement circ. to collar

Thanks!

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P002	1	PUMP CHARGE	\$1150 ⁰⁰	\$1150 ⁰⁰
M001	889 78	MILEAGE	\$6 ⁵⁰	\$507 ⁰⁰
M002	889	Ton mileage	\$1040 ¹³	\$1040 ¹³
CB004	180 sacks	Class A surface bleed	\$24 ⁵⁰	\$4410 ⁰⁰
			sub total	\$7107 ¹³
			less 25% disc.	\$1776 ⁷⁸
			sub total	\$5330 ³⁵
			SALES TAX	281.14
			ESTIMATED TOTAL	5,611.49

AUTHORIZATION Deon Vargy TITLE Tool pusher DATE 8-21-21

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



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



Invoice

DATE	INVOICE #
9/2/2021	33881

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

RECEIVED
SEP 13 2021

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-13	Tractor	Scott	Duke Drlg Rig #2	Oil	Development	5 1/2 Longstring	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				55	Miles	6.00	330.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
325	Standard Cement				225	Sacks	14.50	3,262.50T
284	Calseal				11	Sack(s)	40.00	440.00T
283	Salt				1,150	Lb(s)	0.25	287.50T
292	Halad 322				200	Lb(s)	8.50	1,700.00T
276	Flocele				25	Lb(s)	3.00	75.00T
419-4	4 1/2" Rotating Head Rental				1	Each	250.00	250.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00
290	D-Air				5	Gallon(s)	42.00	210.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				681	Ton Miles	1.00	681.00
	Subtotal							9,986.00
	Sales Tax Scott County						8.50%	592.88

502-5
Jm

We Appreciate Your Business!

Total

\$10,578.88

DW ✓



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

TICKET **33881**
 PAGE 1 OF 2

SERVICE LOCATIONS
 1. Ness City, KS
 2. _____
 3. _____
 4. _____

WELL/PROJECT NO. 1-13
 TICKET TYPE SERVICE SALES
 CONTRACTOR Duke
 WELL TYPE Oil
 INVOICE INSTRUCTIONS _____

LEASE Tractor
 COUNTY/PARISH Scott
 RIG NAME/NO. #2
 JOB PURPOSE Development
 WELL CATEGORY Long String
 WELL PERMIT NO. 5 1/2"

STATE KS
 SHIPPED VIA CT
 DELIVERED TO Location
 WELL LOCATION Crington, 4-w
1 1/2-N, W-INT

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1					55	mi	6.00	330.00
578		1					1	job	1,520.00	1,520.00
8325		1					225	sls	14.50	3,262.50
284		1					11	sls	40.00	440.00
283		1					1160	lbs	0.25	287.50
292		1					200	lbs	8.50	1,700.00
276		1					25	lbs	3.00	75.00
419		1					4 1/2	IN	250.00	250.00

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

DATE SIGNED 9/2/21 TIME SIGNED 2:00 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
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1 7845.00
 2 2141.00
 TOTAL 9986.00

TOTAL 10578.88

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

SWIFT OPERATOR Yudleen Furchy APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-2-2021 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Shakespeare Oil		1-13		Tractor		Long String 4 1/2"		33881	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
									ON LOCATION 4 1/2" 11.6 lb/ft RTD: 46'76" LTD: 4,678' TP: 4678' SJ: 42.17' PC: #57 2274'
	0910								4 1/2" Csg in Well
	0915								Drop Ball - Circulate *Rotate*
	1030	4	12		✓	250			Pump 500 gal Mud Flush
		4	20		✓	250			Pump 20 bbl KCL SPACER
	1040	1 1/2	7-5		✓	75			Plug RH, MH [30,20]
	1050		42		✓	150			Mix 175 sks of EA-2 @ 15.36ppg
	1108								Wash Pump + Lines Release Latch down Plug
	1115	6 1/2	0		✓	200			START Displacement
		'	29		✓	2800			After 29 bbl. Well Pressured up to 2800 PSI
					✓	2,800			Pick Pipe up ~ 2', Release PSI + Pressure up to 2,800 PSI - Holding
					✓	2800			Release PSI + Pressure up Again
									-Could NOT Move Any more Fluid
	1130								Wash up Trk # 112
	1200								Job Complete 225 sks of EA-2 w/ 1% Halad-322 51b/sk Gilsonite, + 1/81b/sk Flo used
									Approx 1000 2,870' of CMT in Csg
									Gideon Kirby, Isaac

SWIFT



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

Invoice

DATE	INVOICE #
9/14/2021	33890

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

RECEIVED

SEP 20 2021

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-13	Tractor	Scott	Wild West	Oil	Development	4 1/2 Longstring	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	6.00	300.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
290	D-Air				7	Gallon(s)	42.00	294.00T
325	Standard Cement				125	Sacks	14.50	1,812.50T
279	Bentonite Gel				2	Sack(s)	30.00	60.00T
283	Salt				700	Lb(s)	0.25	175.00T
292	Halad 322				50	Lb(s)	8.50	425.00T
276	Flocele				25	Lb(s)	3.00	75.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
581D	Service Charge Cement				125	Sacks	2.00	250.00
583D	Drayage				319	Ton Miles	1.00	319.00
	Subtotal							6,010.50
	Sales Tax Scott County						8.50%	309.53

INT

502-5
Jm

We Appreciate Your Business!

Total

\$6,320.03

DW



CHARGE TO: *Shakespeare O.I. + GAS*
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 33890

PAGE 1 OF 1

SERVICE LOCATIONS 1. <i>Ness City, KS</i>	WELL/PROJECT NO. 1-13	LEASE <i>Tractor</i>	COUNTY/PARISH <i>Scott</i>	CITY <i>Scott City</i>	DATE 9-14-2021	OWNER
2. <input checked="" type="checkbox"/> SERVICE SALES	CONTRACTOR <i>Wild West</i>	WELL CATEGORY <i>Development</i>	RIG NAME/NO.	DELIVERED TO <i>Location</i>	ORDER NO.	
3. WELL TYPE <i>Oil</i>	WELL PERMIT NO.	JOB PURPOSE <i>Long Strings 4 1/2"</i>		WELL LOCATION <i>Scott City 6-4-1/2-10</i>		
4. INVOICE INSTRUCTIONS				<i>W-ink</i>		

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
576		1					50	mi	6.00	300.00
578		1					1	job	1,500.00	1,500.00
290		1					7	gal	42.00	294.00
325		1					125	sls	14.00	1,812.00
279		1					2	sls	30.00	60.00
283		1					700	lbs	0.25	176.00
292		1					50	lbs	8.50	425.00
276		1					25	lbs	3.00	75.00
281		1					20	gal	1.00	750.00
281		1					2	gal	25.00	50.00
581		1					125	sls	2.00	250.00
583		1					1225	lbs	1.00	319.00

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

DATE SIGNED *9-14-2021* TIME SIGNED *4:15* A.M. P.M.

SWIFT OPERATOR *Shawn Frueh* APPROVAL

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

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE
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	
	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

PAGE TOTAL *1*

PAGE TOTAL *6010.00*

TOTAL *6320.03*

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-14-2021 PAGE NO. 1

CUSTOMER Shakespeare Oil & Gas WELL NO. 1-13 LEASE Tractor JOB TYPE Long string 4 1/2" TICKET NO. 33890

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							ON LOCATION 4 1/2" 11.6161R
								RTD: 4,678' TP: 4,668'
	1230	4	0		✓	0		Pump Mud
	1254	2 1/3	15		✓	650		Loaded
		3 1/2	30		✓	500		Circulate Mud to Surface * Full Returns *
		2	80		✓	300		
	1400	-	140		✓	-		Mud Pumped wait on CMT
	1505	3 1/2	12		✓	300		Pump 500 gal Mud Flush
		3 1/2	15		✓	300		Pump 15 bbl KCL Spacer
	1515	3 1/2	31		✓	200		Mix 125 sks of STANDARD 2lb gel 10% SALT, 1/2% HALAL 1/4" Fb @ 14.8ppg
	1530							Wash P+L + Release 5-wiper Plug
	1534	4 1/2	0		✓	100		START Displacement
		4 1/2	58		✓	250		lift Pressure
		4 1/2	69		✓	600		MAX lift PSI
	1555	-	70		✓	350		KO Pump * Shut in * - Release PSI
	1600							Wash up Trk #112
	1630							Job Complete
								125 sks used ± 150' left in Csg
								Thanks!
								Gideon Kirby, Isaac

SWIFT



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



Invoice

DATE	INVOICE #
9/16/2021	33893

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

RECEIVED
SEP 21 2021

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-13	Tractor	Scott	Wild West	Oil	Development	Port Collar/Sque...	Gideon

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	50	Miles	6.00	300.00
578D-D	Pump Charge - Deep Squeeze (> 1500 Ft.)	1	Job	1,500.00	1,500.00
330	Swift Multi-Density Standard (MIDCON II)	200	Sacks	18.00	3,600.00T
325	Standard Cement	100	Sacks	14.50	1,450.00T
278	Calcium Chloride	3	Sack(s)	40.00	120.00T
290	D-Air	3	Gallon(s)	42.00	126.00T
581D	Service Charge Cement	335	Sacks	2.00	670.00
583D	Drayage	824	Ton Miles	1.00	824.00
	Subtotal				8,590.00
	Sales Tax Scott County			8.50%	450.16

502-5
gr

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We Appreciate Your Business!	Total	\$9,040.16
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DW



TICKET 33893

CHARGE TO: Shakespeare Oil & Gas
 ADDRESS _____
 CITY, STATE, ZIP CODE _____

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City, KS WELL/PROJECT NO. 1-13 LEASE Tractor COUNTY/PARISH Scott STATE KS CITY _____ OWNER _____
 2. Wild West CONTRACTOR Wild West RIG NAME/NO. _____ SHIPPED VIA CT DELIVERED TO LOCATION ORDER NO. 9-16-2021
 3. Oil WELL TYPE _____ WELL CATEGORY Development JOB PURPOSE Bert Collar / Squeeze WELL PERMIT NO. _____ WELL LOCATION Scott City, 6-E, 1 1/2-N
 4. W-INTD INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
576		1					50	mi	6.00	300.00
578		1					1	job	1,500.00	1,500.00
330		1					200	sks	18.00	3600.00
325		1					100	sks	14.50	1450.00
278		1					3	sks	40.00	120.00
290		1					3	gal	42.00	126.00
581		1					335	sks	2.00	670.00
583		1					32,900	lbs	1.00	824.00

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

DATE SIGNED 9-16-2021 TIME SIGNED 5:15 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
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 1
 8590.00

TOTAL 9040.16

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

SWIFT OPERATOR Gudrun Fuchs APPROVAL _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE

9-16-2021

PAGE NO.

1

CUSTOMER

Shakespeare Oil-Gas

WELL NO.

1-13

LEASE

Tractor

JOB TYPE

Port Collar/Squeeze

TICKET NO.

33893

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							ON LOCATION 2 3/8" x 4 1/2"
								PERFS: 2,262'
								PKR: 2072'
	1450	Ø	4		✓		500	Pressure up BS to 500 PSI *Shut IN*
	1455	3	3		✓		550	INJECTION RATE
	1500	3	110		✓		500	Mix 200 sks of SMD @ 11.2 ppg *CIRCULATE CMT to SURFACE
	1535	3	21		✓		300	Mix 100 sks of Standard CMT w/ 2% CC @ 15.5 ppg
	1541							Wash Pump + Lines
	1546	3	0		✓		300	Begin Displacement
		2 3/4	5		✓		650	
		2 1/2	7		✓		700	
	1550	-	8		✓		450	KO Pump *Shut in BS
		1/2	10		✓		525	Pump 2 more bbl H2O
	1554	-	10		✓		450	KO Pump - Holding 450 PSI *Shut IN* Release Release PSI *Hold*
	1600							Wash up Trk #112
	1630							Job Complete 200 sks of SMD + 100 sks of Standard 2% CC used *50 sks to the Pit* Thanks!
								Richard Kusby, John



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

Well Name: TRACTOR
Well Id: #1-13
Location: 50' FNL, 1270' FEL, NE/4 Sec 13-T18S-R32W, Scott County, Kansas
License Number: API: 15-171-21277 Region: Scott County
Spud Date: 08/20/2021 Drilling Completed: 09/01/2021
Surface Coordinates: NAD83
Lat: 38.4973186, Long: -100.8005617
Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 2970' K.B. Elevation (ft): 2978'
Logged Interval (ft): 3750' To: RTD Total Depth (ft): 4675'
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 #2.

Tool Pusher: Dion Vasquez, 620-793-0840 (cell).

Surface Casing: 8 5/8" set at 265' (KB) w/180sx cement.

Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation, 4.5" production casing was installed.

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: ELI Wireline (DI w/GR, CND, Micro), Jason Cappellucci, 785-735-7112 (office).

RTD= 4675'

LTD= 4677'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Heebner Shale	3903'	-925	3901'	-923
Lansing	3952'	-974	3949'	-971
Muncie Creek Shale	4116'	-1138	4116'	-1138
Stark Shale	4212'	-1234	4215'	-1237
Hushpuckney Shale	4250'	-1272	4251'	-1273
Base of KC	4292'	-1314	4291'	-1313
Marmaton	4336'	-1358	4337'	-1359
Pawnee	4418'	-1440	4421'	-1443
Myrick Station	4450'	-1472	4553'	-1475
Fort Scott	4466'	-1488	4470'	-1492
Cherokee Shale	4490'	-1512	4492'	-1514
Johnson	4532'	-1554	4532	-1554
Mississippian	4569'	-1591	4572'	-1594
RTD	4675'	-1697		
LTD			4677'	-1699

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

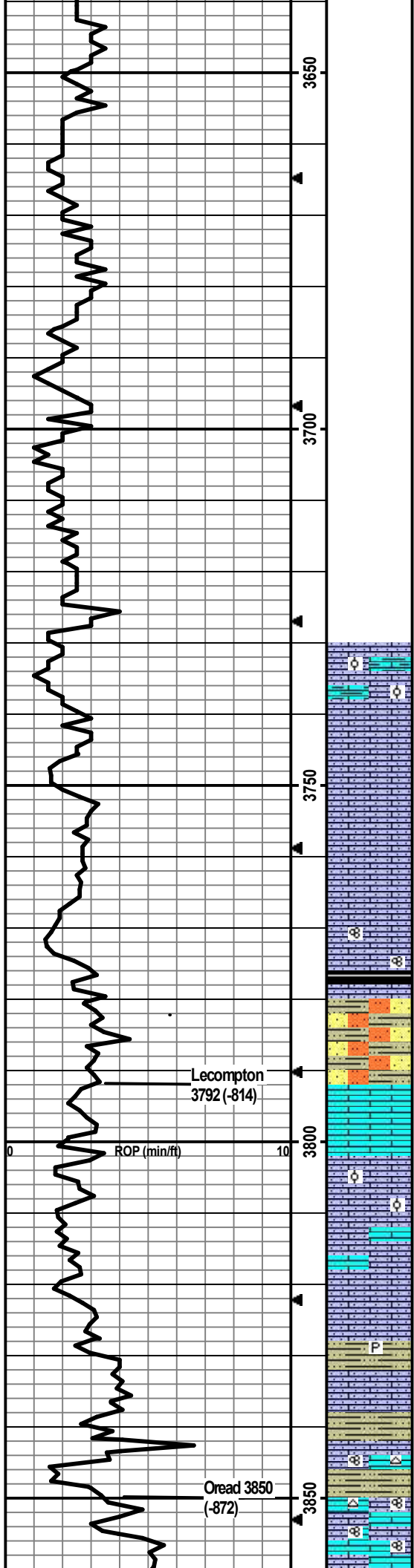
FOSSIL

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

MINERAL

	Ostra
	Pelec
	Pellet
	Pisolite
	Plant
	Strom
	Fuss
	Oomold
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil
	Sulphur
	Tuff
	Chlorite
	Dol
	Sand
	Silty
	Anhy
	Arggrn
	Arg
	Bent
	Bit
	Brecfrag
	Calc
	Carb
	Chtdk
	Chtlt
	Dol
	Feldspar

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)</p> <p>08/20/2021, Finish MIRU, Spud; set surface casing @265'KB. 08/21, WOC @ 265'. 08/22, drilling @ 1570'. 08/23, drilling @ 2810'. 08/24, drilling @ 3415'. 08/25, TOH for wiper trip @ 3885'. 08/26, DST #1 @ 4000'. 08/27, TIH w/tool for DST #2 @ 4190'. 08/28, TIH w/bit after DST #3 @ 4230'. 08/29, drilling @ 4324'. 08/30, drilling @ 4415'. 08/31, TIH w/bit after DST #6 @ 4512'. 09/01, drilling @ 4613'. TD @ 4660', Electric logged.</p> <p>Anhydrite: Top @ 2298' (+680), Base @ 2323' (+655) (based on drill time).</p> <p>ROP Data begins @ 3500' on 08/24/2021. Recorded from drillers geolograph record, and geologist's auto-reader switch on geolograph.</p>	<p>Mud-Co/Service Mud Inc. Check #1 @ 0' 08/20/21, predrilling instructions.</p> <p>Mud-Co/Service Mud Inc. Check #2 @ 1679' 08/22/21 08:50am wt vis pH chl 8.7 27 8 130 Filt LCM n/c 0</p> <p>Mud-Co/Service Mud Inc. Check #3 @ 2882' 08/23/21 09:20am wt vis pH chl 9.1 30 7 33000 Filt LCM n/c 2</p> <p>Displaced drilling mud @ 3415'.</p> <p>Mud-Co/Service Mud Inc. Check #4 @ 3531' 08/24/21 10:20am wt vis pH chl 8.6 55 11.5 2200 Filt LCM 7.2 1</p> <p>Mud-Co/Service Mud Inc. Check #5 @ 3885' 08/25/21 09:00am wt vis pH chl 9.0 57 11.0 3200 Filt LCM 7.2 5</p> <p>Mud-Co/Service Mud Inc. Check #6 @ 4000' 08/26/21 11:30am wt vis pH chl 9.0 56 10.0 3000 Filt LCM 8.8 5</p> <p>Mud-Co/Service Mud Inc. Check #7 @ 4190' 08/27/21 08:15am wt vis pH chl 9.1 56 9.5 3500 Filt LCM 9.6 4</p> <p>Mud-Co/Service Mud Inc. Check #8 @ 4230' 08/28/21 07:00am wt vis pH chl 9.2 59 10 4000 Filt LCM 9.6 4</p> <p>Mud-Co/Service Mud Inc. Check #9 @ 4336' 08/29/21 07:30am wt vis pH chl 9.2 63 10 4200 Filt LCM 8.8 3</p> <p>Mud-Co/Service Mud Inc. Check #10 @ 4430' 08/30/21 08:30am wt vis pH chl 9.2 48 11.5 3500 Filt LCM 7.2 4</p> <p>Mud-Co/Service Mud Inc. Check #11 @ 4512' 08/31/21 07:20am wt vis pH chl 9.3 61 11 3400 Filt LCM 8.8 4</p>



Geologist on location @ 3677', 08/24/2021.

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.

Drill cutting samples at 10' intervals start at 3750'.

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

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

LS: cm/lt-m bm, micro-f xtal, chalky, silty/sndy, foss frags, min ppt-f in-xtal por, no odor, ns.

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

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

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

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

Sltstrn/SS: lt gry, vf-f, well sorted, pred qtz. carb, arg, friable, no odor, ns.

LS: cm/lt bm, micro-f xtal, min foss frags, no vis por, no odor, ns.

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

LS: cm/min lt bm/min lt gry, micro-f xtal, some silty/sndy, some chalky, foss frags, min ppt-f in-xtal por, no odor, ns.

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

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

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

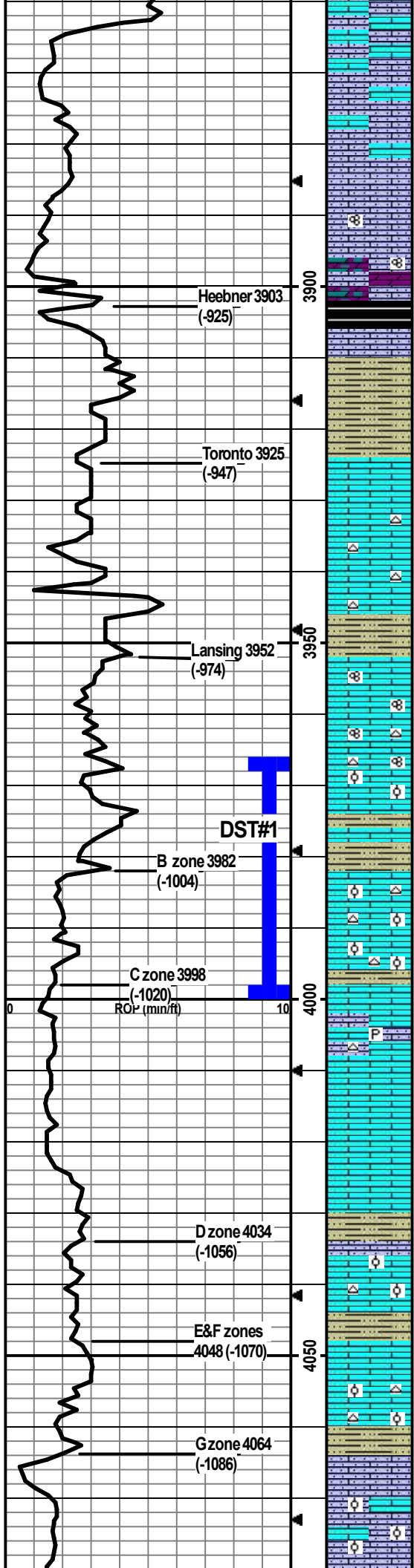
LS: cm/min lt bm, micro-m xtal, some silty/sndy, some chalky, min wht grainy chert, foss frags/fusln, min f-m in-xtal por in fusln foss, no odor, ns.

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

Survey Record

Deg @ Ft
 0.75 @ 265'
 0.5 @ 2261'
 0.5 @ 4000'
 1.0 @ 4230'
 0.75 @ 4512'
 0.75 @ 4675'

Lost circulation @ 3751, est 150 bbls.



LS: lt bm/lt gry/dk bm and gry mottling, f-m xtal, some silty, some chalky, foss frags, no vis por, no odor, ns.

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

LS: cm/lt-m bm, micro-m xtal, some vry silty/sndy, chalky, dolomitic, foss frags/fusln, some f-m in-xtal and fusln por, no odor, ns.

SH: blk, slt silty, carb, firm, fissile.

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

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

Min SH as above. Mostly LS: wht/cm/lt bm/lt gry, mostly micro-f xtal w/min med xtal, some vry chalky, foss frags in med xtal, no vis por, no odor, ns.

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

SH: lt-m gry/red bm, silty/sndy, slt carb, soft-firm.

LS: cm/lt bm, micro-m, some chalky, foss frags/fusln, 2 pcs w/sfo dk bm/blk thick w/ppt-f in-xtal por, dul fluor/cut, slt odor, sfo. Most of smpl fluor.

LS: cm/lt bm, micro-m xtal, lt bm/wht chert, foss frags/fusln, most of smpl fluor, ppt-f in-xtal por, no odor, ns.

LS: lt-m bm, micro-m xtal, foss frags/dense ool, some min fluor, no vis por, no odor, ns. 2 pcs w/sfo w/fm in-xtal por assume from above.

SH: m-dk gry, vry silty, slt carb, soft-firm.

LS: cm/lt bm, micro-m xtal, some chalky, wht/lt bm chert, foss frags/fusln/ool, 46 pcs w/s dk bm oil, f-crs in-xtal/in-ool por, dul yel fluor, gd odor, sfo.

LS: cm/lt-m bm, micro-m xtal, some chalky, min lt bm chert. foss frags/ool, ppt-m in-xtal/in-ool por, 16 pcs (30min), 6 pcs (60min) w/sfo, dul yel fluor, slt odor, sfo.

SH: m-dk gry/red brn/maroon, some vry silty/sndy, slt carb, soft-firm.

LS: cm/lt bm, micro-m xtal, some silty/sndy, chalky, min pyritic, min lt bm/wht chert, foss frags, some f-crs in-xtal por, no odor, ns.

LS: cm/lt bm, micro-f xtal, smpl vry chalky, foss frags, f-crs in-xtal por, no odor, ns.

LS: wht/cm/lt gry, micro-f xtal, smpl vry chalky, min foss frags, min f-m in-xtal por, no odor, sfo.

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

LS: cm/lt-m bm, micro-m xtal, min silty/sndy, some chalky, foss frags w/min dense ool, 9 pcs w/sfo w/ppt-m in-xtal por, dul yel fluor, slt odor, sfo.

LS: cm/lt-m bm, micro-m xtal, some chalky, lt bm/wht foss chert, foss frags/dense ool, 7 pcs w/sfo w/ppt-f in-xtal por, slt odor, dul yel fluor, sfo.

SH: lt-dk gry, slt silty, greasy, slt carb, soft-firm.

LS: cm/lt bm, micro-m xtal, chalky, grainy wht chert, foss frags/dense ool/grainy, ppt-m in-xtal por, no odor, ns. (2 pcs w/staining w/ppt por, assume from above).

SH: lt-dk gry/blk/maroon/lt green-gry/red bm, some silty/sndy, slt carb, soft-hard.

LS: cm/lt bm, micro-m xtal, chalky, silty/sndy, foss frags/ool, m-crs oo-castic por, no odor, ns.

Wiper Trip @ 3885' conn, 35 stands.

CFS @ 3895'
Stop/30"/60"

DST#1) 3967-4000

Lansing B-zone

15/30/30/60
1st) BOB blow at 13min; no BB.

2nd) BOB blow at 16min; no BB.

IFP 33-106#

ISIP 958#

FFP 104-233#

FSIP 958#

HP 1942-1903#

Recvd: 320' OSMCW (2%O, 35%M, 63%W), 120' MSW w/Oil Scum.

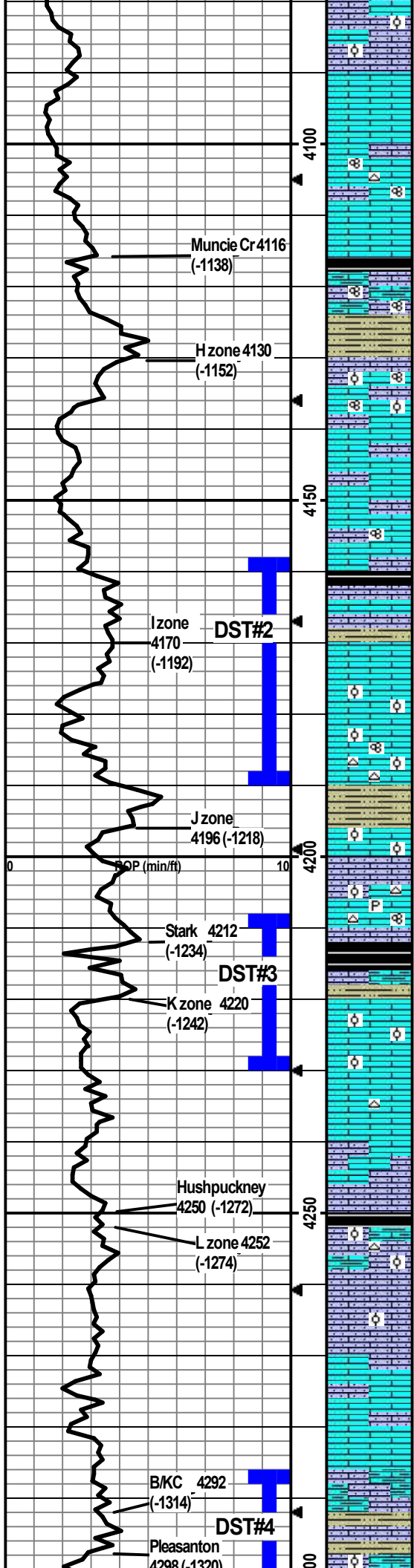
CFS @ 3950'
Stop/30"/60"

Stopped drilling @ 4000' due to rain filling mud pits. Pulled up suction tube and pumped to reserve pit. After rain water in mud pits was pumped down, CFS.

Pipe strap TOH for DST #1 at 4000' was 7.48' short to the board.

CFS @ 4000'
Stop/30"/60"

CFS @ 4060'
Stop/30"/60"



LS: cm/lt gry, micro-crs w/2ndry xtal, some silty/sndy, smpl vry chalky, foss frags/less oo than above, some m-crs oo-castic/in-xtal por, no odor, ns.

LS: cm, micro-m xtal, some chalky, min foss frags, min wht/lt bm chert, min ppt-m in-xtal por, no odor, ns.

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

LS: cm/lt gry/lt bm, micro-f xtal, some chalky, min foss frags, no vis por, no odor, ssfo.

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

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

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

LS: cm, micro-m xtal, some chalky, some silty, foss frags/fusln/dense ool, min vf-m in-xtal por, no odor, ns.

LS: wht/cm/lt bm/lt gry, micro-m xtal, some silty/sndy, some chalky, foss frags, mostly dense w/min f-m in-xtal por, no odor, ns.

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

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

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

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

LS: cm/lt-m bm, micro-m xtal, some chalky, foss frags/some dense ool, 2 pcs w/sfo w/ppt-f in-xtal por, slt crush odor, ssfo.

LS: cm/lt bm, micro-m xtal, chalky, silty/sndy, foss frags/fusln/ool, 19 pcs w/sfo w/f-crs in-xtal/in-ool por, dul yel fluor, gd odor, sfo. Wht/lt bm ool chert in 60min smpl.

SH: m-dk gry/blk/lt green-gry, vry silty/sndy some poss sltstrn/SS, slt carb, soft-firm.

LS: cm/lt gry, micro-m xtal, foss frags/some ool, 40+ pcs w/sfo w/in-xtal/in-ool por, sul yel fluor, gd odor, sfo.

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

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

LS: cm/lt-dk bm, micro-m xtal, some arg/silty/sndy, chalky, foss frags, 20 pcs w/sfo w/f-crs in-xtal por, dul yel fluor, gd odor, gd sfo.

LS: cm/lt bm, micro-m xtal, some chalky, foss frags w/abund ool, 10-15% of smpl w/sfo w/f-crs in-xtal/in-oo por, stg odor, vgsfo.

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

LS: cm/lt bm/lt gry-bm, micro-m xtal, some silty/sndy, chalky/arg, min wht chert, foss frags, no vis por, no odor, ns (3 sndy/chalky pcs wfo on crush, no vis por).

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

LS: cm/lt-m brn, micro-m xtal, silty/sndy, some arg, min wht/lt gry chert, chalky, foss frags/dense ool, 14 pcs w/sfo some dk brn drops some blk tar, w/ppt-f in-xtal por some chalky, dul yel fluor/cut, slt crush odor, sfo.

LS: cm/lt-m bm, micro-m xtal, silty/sndy, chalky, foss frags/min dense ool, 19 pcs w/sfo (dk bm drops) w/ppt-m in-xtal por dul yel fluor, gd odor, sfo.

LS: cm/lt gry, micro-m xtal, some silty, some chalky, min foss frags, 17 pcs w/sfo w/ppt-m in-xtal por, slt odor, dul yel fluor, sfo.

LS: cm/lt-m bm, micro-m xtal, chalky, some silty/arg, foss frags/crin/brac, no vis por, no odor, ns. 3 pcs w/sfo assume from above.

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

LS: cm/lt gry-brn/lt-m brn, micro-m xtal, some vry silty/sndy, some vry chalky, arg, foss frags/ool, 16 pcs w/sfo w/vf-m in-xtal/in-ool por, dul yel fluor, slt odor, sfo.

DST2) 4158-4190

Lansing I-zone

30/30/30/30
1st) blow built to 1/2" at 5min and maintained; no BB.
2nd) no blow; no BB.
IFP 28-29#
ISIP 670#
FFP 30-32#
FSIP 660#
HP 2090-2009#
Recvd: 15' OSM.

CFS @ 4160'
Stop/30"/60"

2nd pipe strap TOH for DST #2 at 4190' was 6.14' short to the board.

CFS @ 4190'
Stop/30"/60"

CFS @ 4210'
Stop/30"/60"

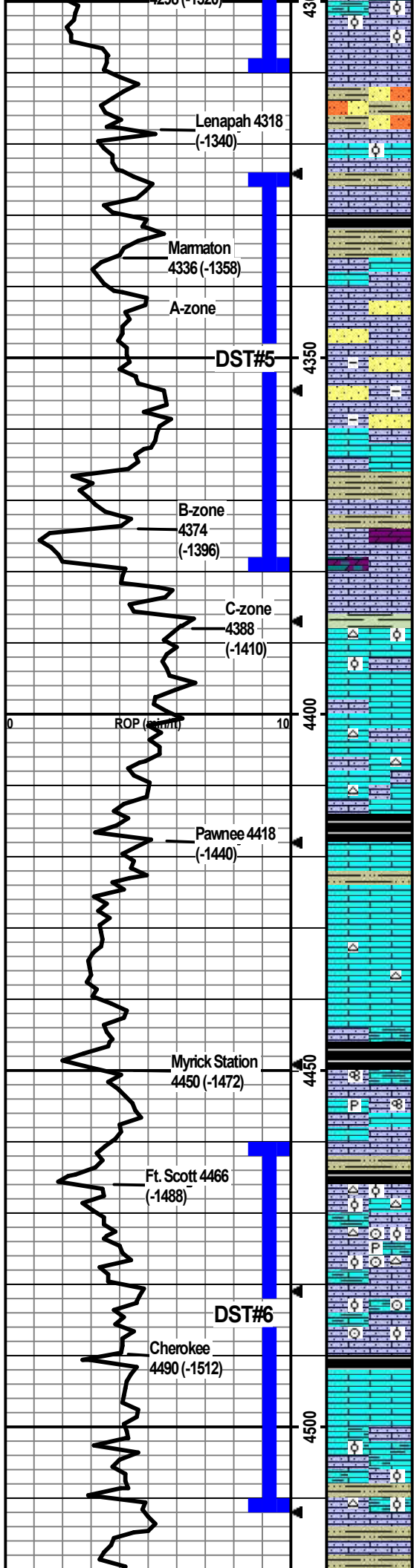
CFS @ 4230'
Stop/30"/60"

DST3) 4208-4230

Lansing K-zone

15/30/45/60
1st) 1/2" blow built to 9"; no BB.
2nd) Surface blow built to BOB at 29mins; no BB.
IFP 35-85#
ISIP 703#
FFP 89-225#
FSIP 703#
HP 2111-2046#
Recvd: 130' HMCW w/Oil Scum (40%/M, 60%/W), 180' MSW (3%/M, 97%/W).

CFS @ 4270'
Stop/30"/60"



LS: cm/lt-dk bm, micro-m xtal, some vry silty/sndy, arg, chalky, foss frags/abund ool, approx 5-10% of smpl w/sfo wf-crs in-xtal/in-ool por, yel fluor, gd odor, sfo.

SH: lt-dk gry/dk bm/blk, some vry silty/sndy, slit carb, firm-hard. Some Siltstr/SS: lt gry, vf-f, sr-wr, pred qtz, slit carb, arg, ns. Few pcs LS w/show oil from above.

LS: cm/lt brn/lt gry, micro-m xtal, some vry silty/sndy, some chalky, foss frags/min ool, 18 pcs w/s thk blk oil, dul yel cut, ppt-f in-xtal por, no odor, sfo.

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

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

LS: cm/lt brn/lt gry, micro-m xtal, some sndy, some chalky, foss frags, 22 pcs w/sfo dk brn, thk blk tar, w/ppt-m in xtal por, dul yel fluor/cut, no odor, sfo.

LS: flood of lt-m gry, vry sndy (poss call carb SS), vf-f xtal, no vis por, no odor, ns. Few pcs w/show assume from above.

Cont lt-m gry vry sndy LS/carb SS, some arg, no odor, ns.

LS: cm/lt gry-bm, micro-m xtal, some silty, some chalky, foss frags 25 pcs w/sfo wf-m in-xtal por, dul yel fluor, stg odor, gsfo.

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

LS: cm/min lt brn, vf-m w/crs 2ndry xtal, vry silty, chalky, dolomitic, foss frags/some grainy, approx 5-10% of smpl w/sfo, vf-m w/min crs in-xtal por, dul yel fluor, stg odor, gdsfo.

SH: m-dk gry/green-gry, greasy, slit carb, firm.

LS: cm/lt bm, micro-m xtal, some chalky, wht/lt bm chert, foss frags/dense ool, mostly dense w/9 pcs w/thk blk tar oil w/vf-f in-xtal por, dul yel fluor/cut, no odor, sf tar-oil.

LS: cm/lt-m bm, micro-f xtal, min silty, min foss frags/min dense ool, no vis por, no odor, ns

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

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

LS: wht/cm/lt brn/lt gry, micro-m w/some crs 2ndry xtal, min foss frags, 8 pcs w/s of blk tar-oil, ppt-f in-xtal por, dul yel fluor/cut, no odor, show tar-oil.

LS: cm/lt brn, micro-m xtal, some chalky, lt wht/lt gry/lt brn foss chert, min foss frags, 12 pcs w/sfo, some blk tar some dk bm drops on crush, ppt-vf por, dul yel fluor/cut, no odor, sfo.

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

SH: dk gry/blk, silty, slit carb, firm, fissile.

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

SH: dk gry/blk/dk bm, silty, slit carb, firm, fissile.

LS: cm/lt-m brn/lt gry, micro-m xtal, some silty, chalky, gry/lt brn chert, foss frags/ool, 15 pcs w/sfo wf-m in-xtal/in-ool por, dul yel fluor, no odor, sfo.

LS: lt-dk brn/m-dk gry, micro-m xtal, silty, arg, pyritic, wht/lt brn/dk bry chert, foss frags/crin/dense ool, no vis por, no odor, ns.

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

SH: dk gry/blk, slit silty, slit carb, firm, fissile.

LS: cm/lt brn, micro-m xtal w/fine xtals on vug por lining, some chalky, foss frags, 15-20% of smpl w/sfo wf-crs/vug in-xtal por, staining on xtal vug lining, gd odor, vgsfo.

LS: cm/lt-m brn/lt-m gry, micro-m xtal, some silty/sndy, chalky, arg, foss frags/dense ool, ~5% of smpl w/sfo, ppt-m in-xtal por, dul yel fluor, gd odor, sfo.

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

LS: lt-m brn/lt-m gry, micro-m xtal, some vry silty/sndy, arg, lt brn chert, foss frags/min dense ool, 4 pcs w/sfo wf-m in-xtal por (poss from above), dul yel fluor, no odor.

CFS @ 4310'
Stop/30"/60"

DST4) 4286-4310 Pleasanton
15/30/45/90
1st) 1/2" blow built to BOB at 15min; no BB.
2nd) Surface blow built to 1.5" at 10min then dropped to SB; no BB.
IFP 45-93#
ISIP 112#
FFP 95-109#
FSIP 111#
HP 2104-2015#
Recvd: 3' CO (100%O), 177 OCM (5%O, 95%M).

CFS @ 4350'
Stop/30"/60"

CFS @ 4380'
Stop/30"/60"

CFS @ 4410'
Stop/30"/60"

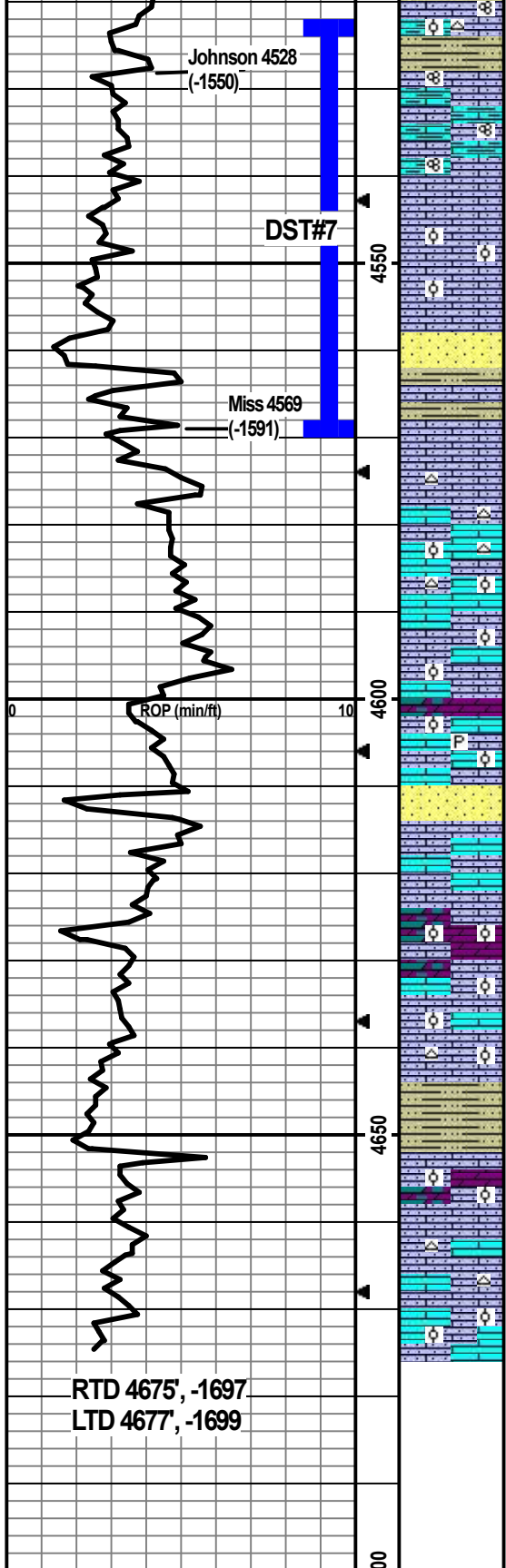
DST5) 4324-4380 Marmaton A & B zones
15/30/45/90
1st) 1/4" blow built to BOB at 15min; no BB.
2nd) Surface blow built to BOB at 30min; no BB.
IFP 30-96#
ISIP 351#
FFP 102-213#
FSIP 338#
HP 2187-2123#
Recvd: 400' MWC w/oil scum.

CFS @ 4440'
Stop/30"/60"

CFS @ 4460'
Stop/30"/60"

CFS @ 4488'
Stop/30"/60"

CFS @ 4512'
Stop/30"/60"



RTD 4675', -1697
LTD 4677', -1699

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

SH: m-dk gry/blk/maroon, some vry silty, carb, soft-firm.

LS: cm/lt-m bm, micro-m xtal, some silty/arg/chalky, foss frags/fusln, 24 pcs w/sfo, mostly blk tar w/min droplets, dul yel fluor/cut, ppt-m in-xtal w/min crs por, no odor, sfo.

LS: cm/lt-m brn/gry-bm, micro-m xtal, some silty/chalky, foss frags/ool, 5-10% of smpl w/s blk tar-oil w/min droplets, dul yel fluor/cut, ppt-m in-ool/in-xtal por, no odor, sfo.

LS as above w/s black tar oil w/min droplets on break.

SS: abund qtz SS cluster all w/sfo, lt bm opaque, f-m grained, sr-wr, friable, oil droplets on break, dul yel fluor/cut, rainbow on cup water, stg odor, gsfo.

Cont SS as above w/sfo, droplets on break, rainbow on cup water, stg odor.

SH: lt-dk gry/lt green-gry/blk, some vry sndy, pyritic, carb, firm.

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

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

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

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

SS: wht/lt green-wht, vff, sr-wr, qtz w/carb matrix, chalky, friable.

LS: cm/lt bm, micro-f xtal, some sndy, some chalky, 7 pcs w/bm staining w/dul yel cut w/ppt-vf in-xtal por, droplets on break, no odor, slt sfo.

LS as above; Dolo: lt bm, vf grained, ool, 22 pcs w/sfo w/crs/vug in-xtal/oo-castic por, dul yel fluor, slt odor, sfo.

LS: cm/lt bm, micro-m xtal, some sndy, some chalky, some dolomitic, dense oolites, no vis por, no odor, ns (1 dolo pce w/show assumed from above).

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

Flood of SH: lt-dk gry/lt green-gry/maroon, greasy, firm.

SH: lt-dk gry/blk/lt green-gry/maroon, some silty, greasy, firm.

LS: wht/lt-m bm, micro-m xtal, some vry sndy, some vry chalky, some dolomitic, dense ool, min ppt-f in-xtal por, no odor, ns. Cont flood of SH from above.

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

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

TD @4675'

**ST16) 4460-4512 Ft
Scott & Cherokee**

15/30/45/60
1st) weak SB built to 1.5" at 15min; no BB.
2nd) SB built to 2.5" at 45min; no BB.
IFP 28-25#
ISIP 93#
FFP 22-29#
FSIP 153#
HP 2249-2233#
Recvd: 45' GIP, 15' OCM (25%O, 75%M).

CFS @ 4570'
Stop/30"/60

**DST7) 4523-4570
Johnson**

15/30/45/90
1st) BOB at 3min; BB built to 9.5" then decreased to 8.75".
2nd) BOB at 9min; BB at BOB at 15min.
IFP 54-116#
ISIP 962#
FFP 129-279#
FSIP 940#
HP 2313-2353#
Recvd: 1150' GIP, 410' CGO (42%G, 58%O), 240' GMCO (20%M, 38%G, 42%O).

Original TD set at 4660', but lowered TD to 4675' to catch oil show on the log in Dolo at 4626-28'

CFS @ 4660'
Stop/30"/60

CFS @ 4675'
Stop/30"/60"
CTCH 1.5 hr total then TOH for logging.



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

Job Ticket: 67666

DST#: 1

ATTN: Kent Matson

Test Start: 2021.08.26 @ 02:37:00

GENERAL INFORMATION:

Formation: **Lansing " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:34:50

Time Test Ended: 10:05:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 3967.00 ft (KB) To 4000.00 ft (KB) (TVD)

Reference Elevations: 2978.00 ft (KB)

Total Depth: 4000.00 ft (KB) (TVD)

2970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 232.58 psig @ 3968.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.26

End Date:

2021.08.26

Last Calib.:

2021.08.26

Start Time: 02:37:01

End Time:

10:05:40

Time On Btm:

2021.08.26 @ 05:34:40

Time Off Btm:

2021.08.26 @ 07:55:50

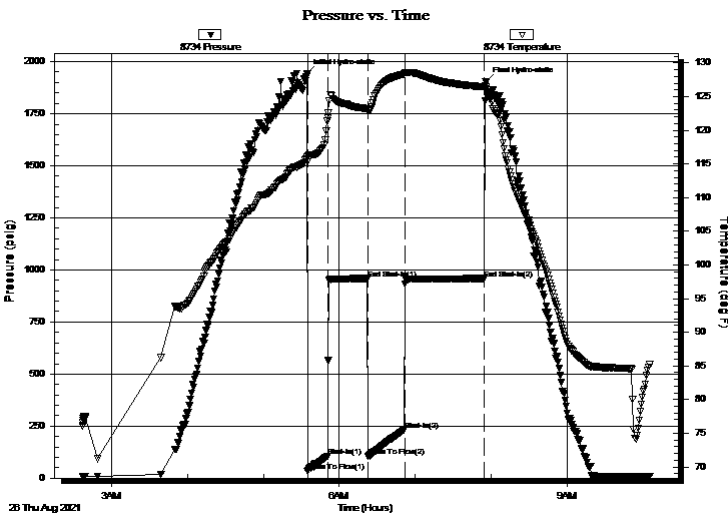
TEST COMMENT: 15-IF-S.blow built to B.O.B (11 inches) @ 13 mins (blow increased to 13")

30-ISI-No return

30-FF-B.O.B @ 16 mins (blow increased to 22 1/2")

60-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.16	116.10	Initial Hydro-static
1	32.82	115.36	Open To Flow (1)
17	106.48	121.81	Shut-In(1)
48	958.34	123.21	End Shut-In(1)
49	104.19	122.90	Open To Flow (2)
77	232.58	128.34	Shut-In(2)
141	958.17	126.41	End Shut-In(2)
142	1902.69	126.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MSW /w Oil Scum	1.68
320.00	SOSMCW 2%O, 35%M, 63%W	4.49

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

Job Ticket: 67666

DST#: 1

ATTN: Kent Matson

Test Start: 2021.08.26 @ 02:37:00

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:

46000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MSW /w Oil Scum	1.683
320.00	SOSMCW 2%O, 35%M, 63%W	4.489

Total Length: 440.00 ft Total Volume: 6.172 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

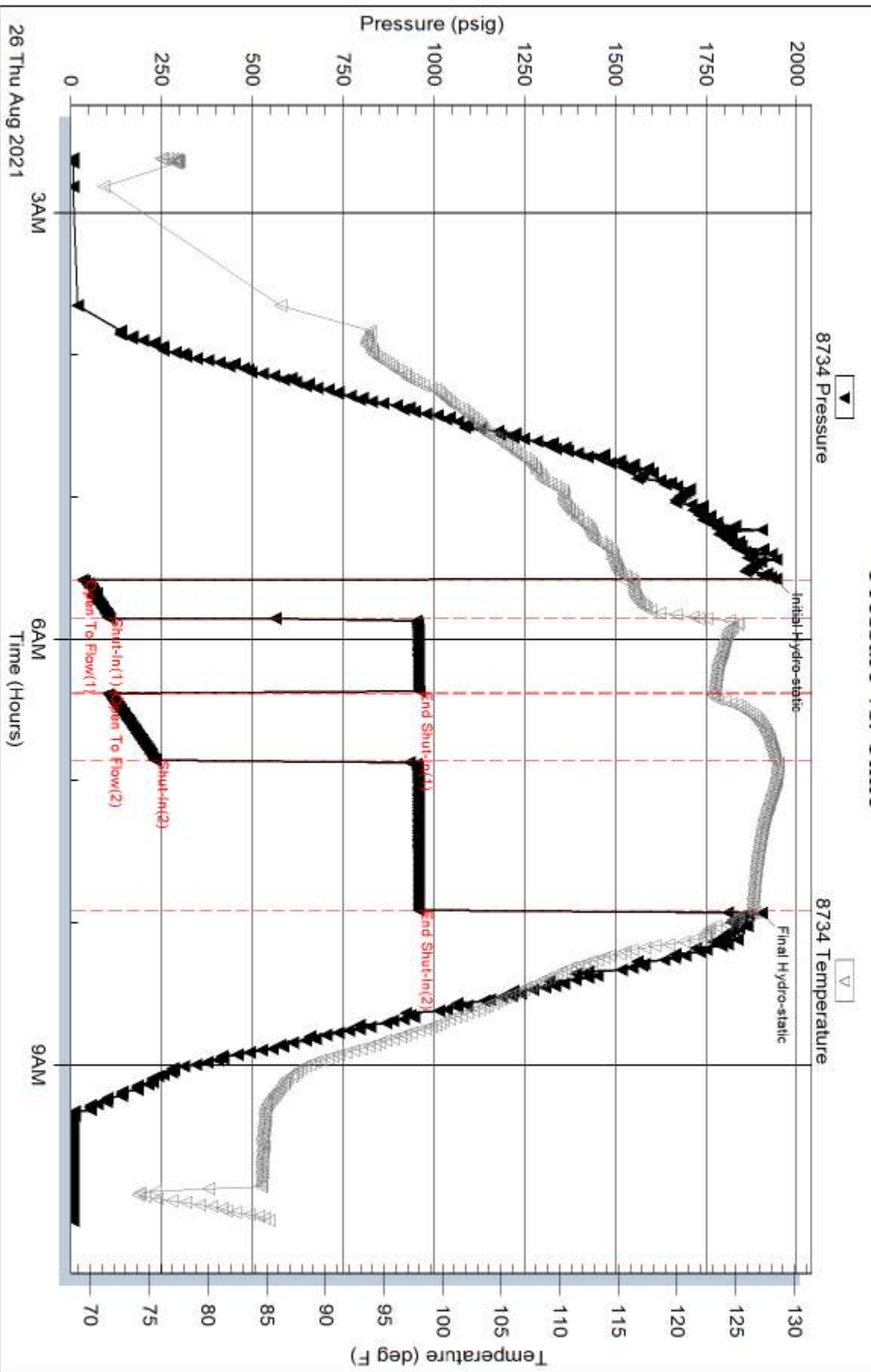
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .150 @ 79 degs = 46,000 PPM

Pressure vs. Time



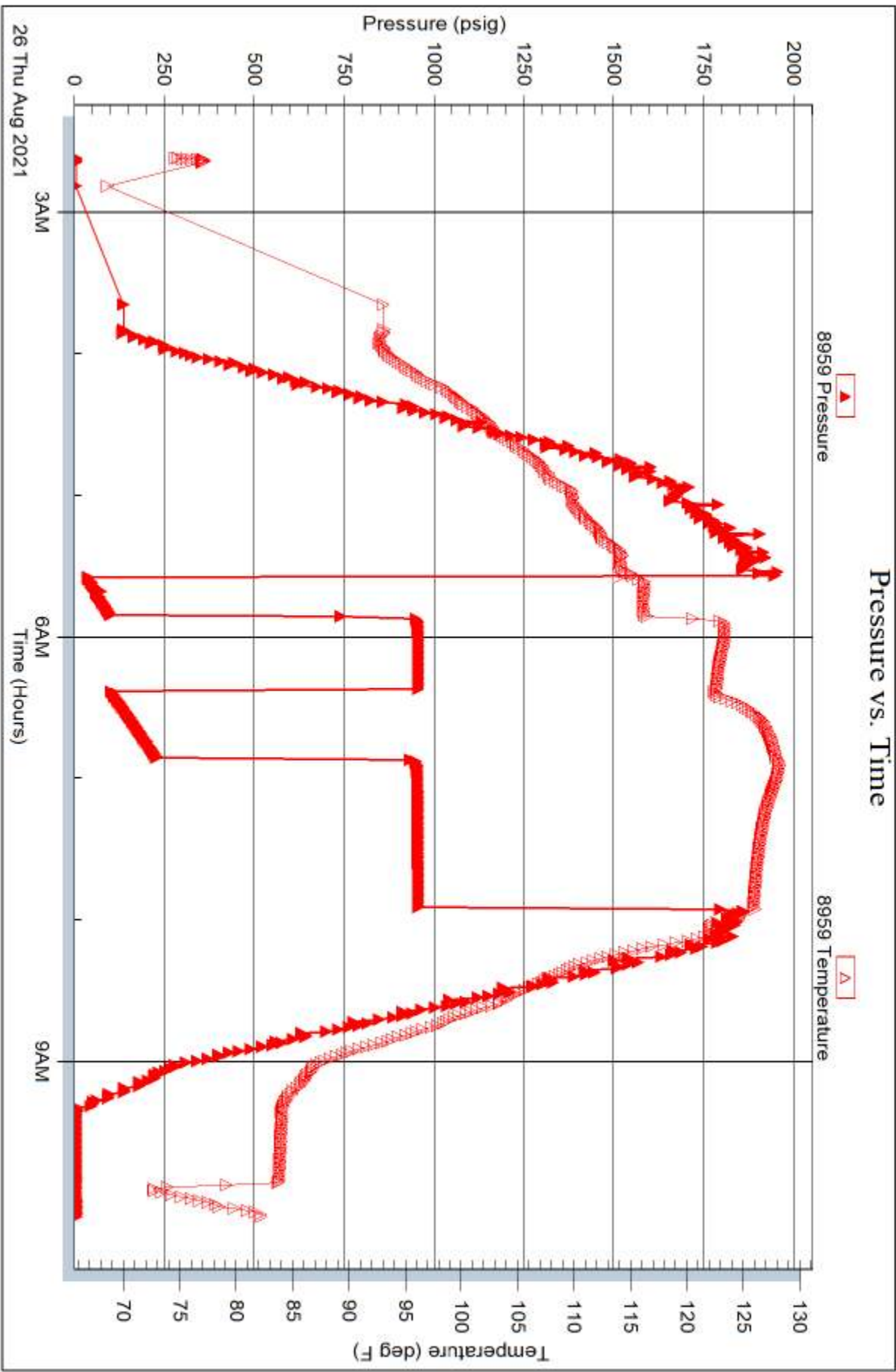
Serial #: 8959

Inside

Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 67666

Printed: 2021.08.26 @ 11:37:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

ATTN: Kent Matson

Job Ticket: 67667

DST#: 2

Test Start: 2021.08.27 @ 06:01:00

GENERAL INFORMATION:

Formation: **Lansing "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:02:10

Time Test Ended: 11:36:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4158.00 ft (KB) To 4190.00 ft (KB) (TVD)

Total Depth: 4190.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2978.00 ft (KB)

2970.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 32.39 psig @ 4159.00 ft (KB)

Start Date: 2021.08.27

End Date: 2021.08.27

Start Time: 06:01:01

End Time: 11:36:10

Capacity: 8000.00 psig

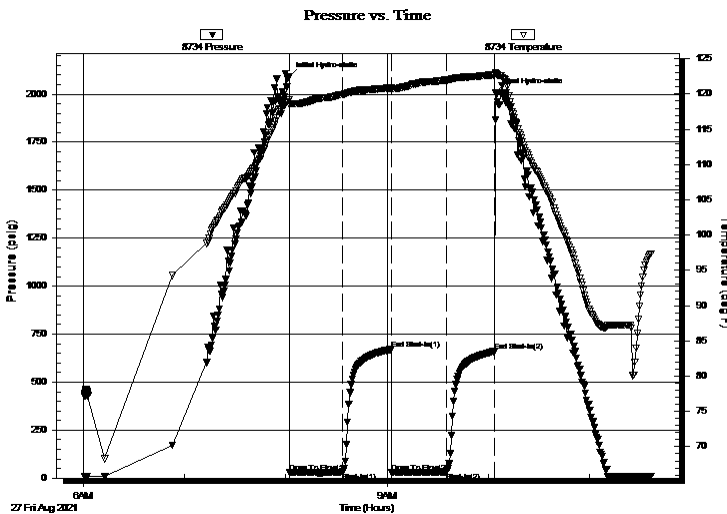
Last Calib.: 2021.08.27

Time On Btm: 2021.08.27 @ 08:02:00

Time Off Btm: 2021.08.27 @ 10:04:20

TEST COMMENT: 30-IF-S.blow built to 1/2" @ 5 mins & maintained
30-ISI-No return
30-FF-No blow
30-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2090.17	119.18	Initial Hydro-static
1	28.01	118.48	Open To Flow (1)
32	29.11	119.93	Shut-In(1)
61	670.47	120.87	End Shut-In(1)
61	30.21	120.60	Open To Flow (2)
93	32.39	121.99	Shut-In(2)
122	660.05	122.73	End Shut-In(2)
123	2008.52	122.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% Mud w /Oil spots	0.21

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

Job Ticket: 67667

DST#: 2

ATTN: Kent Matson

Test Start: 2021.08.27 @ 06:01:00

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: 59.00 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
15.00	100% Mud w /Oil spots	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

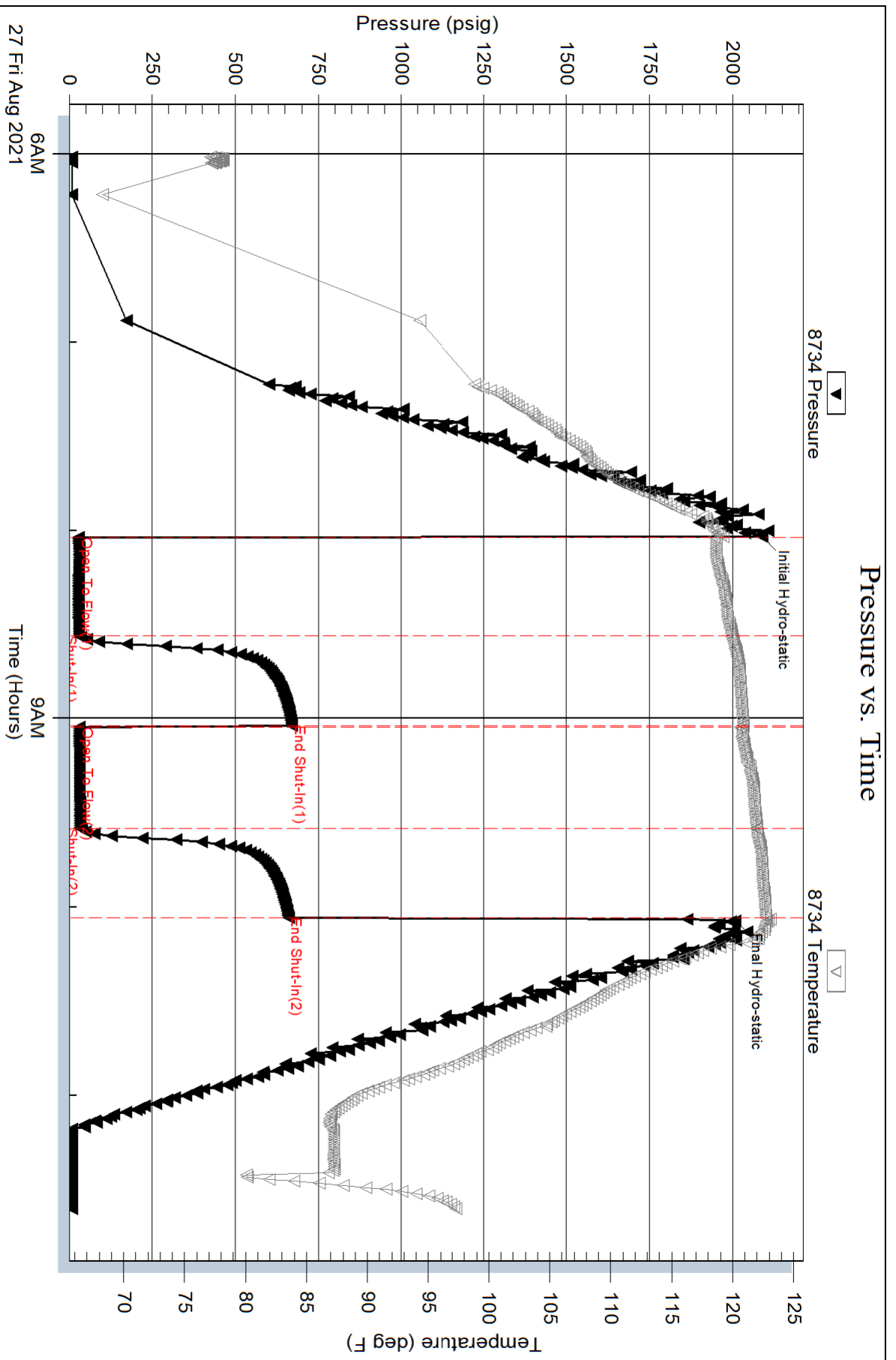
Recovery Comments:

Serial #: 8734

Outside Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 2



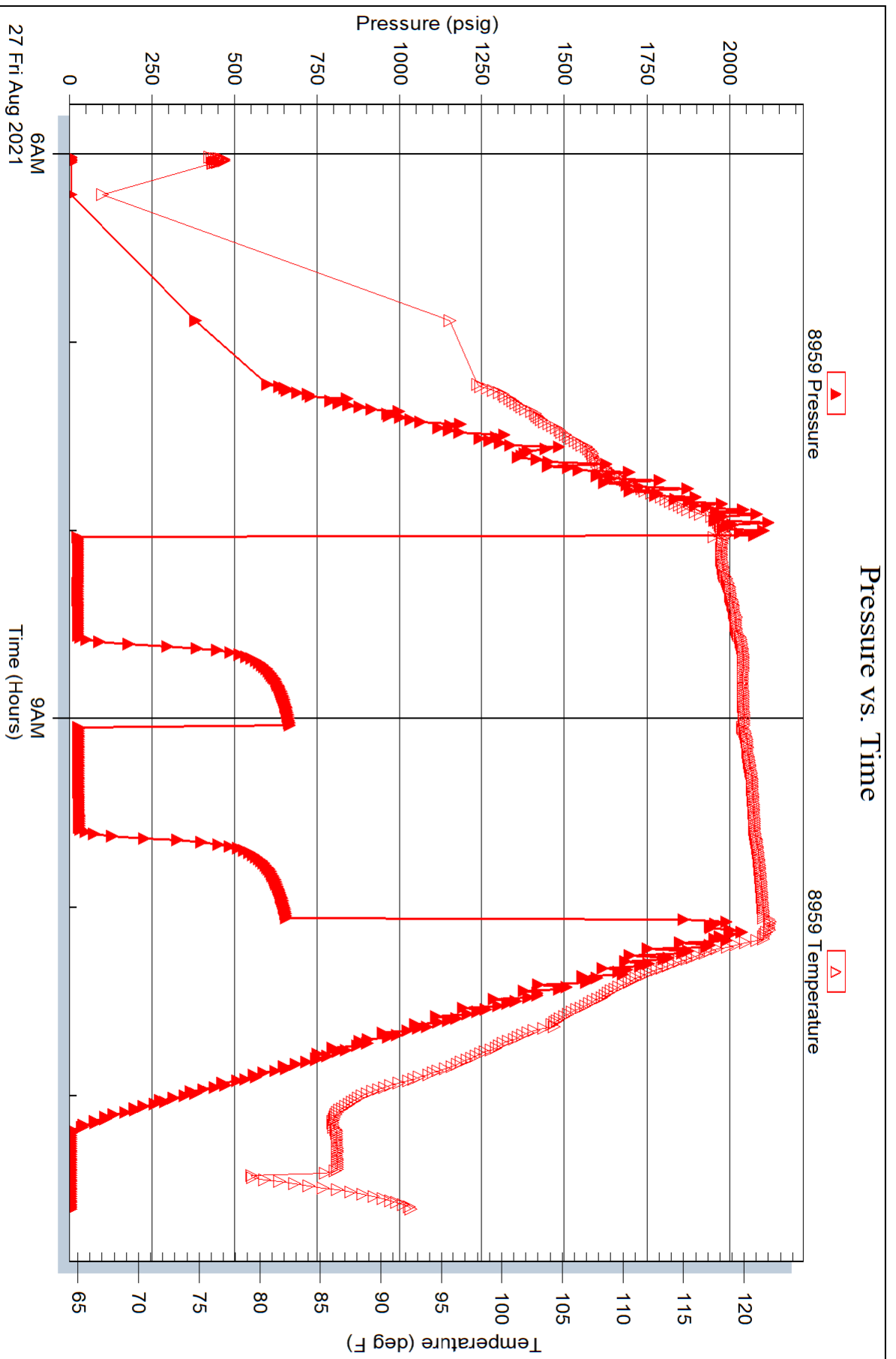
Serial #: 8959

Inside

Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 2





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

Job Ticket: 67668

DST#: 3

ATTN: Kent Matson

Test Start: 2021.08.27 @ 20:45:00

GENERAL INFORMATION:

Formation: **Lansing " K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:55:32

Time Test Ended: 04:56:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4208.00 ft (KB) To 4230.00 ft (KB) (TVD)

Reference Elevations: 2978.00 ft (KB)

Total Depth: 4230.00 ft (KB) (TVD)

2970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 225.13 psig @ 4209.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.27

End Date:

2021.08.28

Last Calib.:

2021.08.28

Start Time: 20:45:03

End Time:

04:56:32

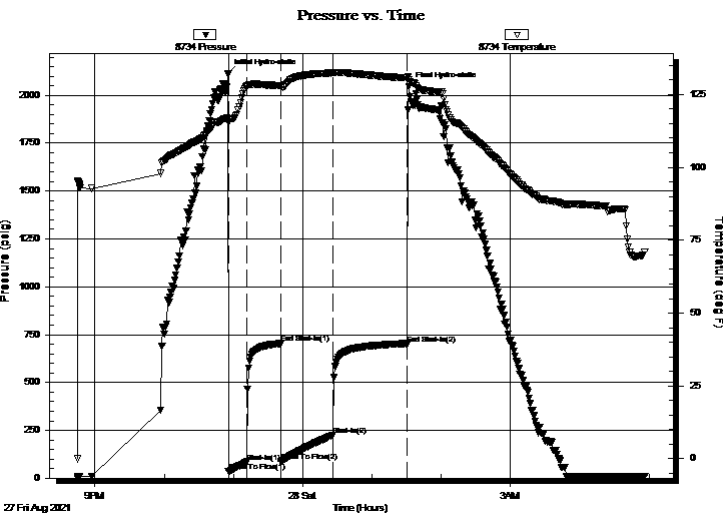
Time On Btm:

2021.08.27 @ 22:55:22

Time Off Btm:

2021.08.28 @ 01:32:02

TEST COMMENT: 15-IF-1/2" blow built to 9"
30-ISI-No return
45-FF-S.blow built to B.O.B (11 inches) @ 29 mins (blow increased to 13 1/2")
60-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.33	116.67	Initial Hydro-static
1	35.04	115.49	Open To Flow (1)
17	85.05	127.79	Shut-In(1)
46	703.49	127.96	End Shut-In(1)
46	88.89	127.70	Open To Flow (2)
91	225.13	132.41	Shut-In(2)
156	702.95	130.68	End Shut-In(2)
157	2046.38	130.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MSW 3%M, 97% W	2.52
130.00	HMCW/OIL Scum 40%M, 60%W	1.82

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

Job Ticket: 67668

DST#: 3

ATTN: Kent Matson

Test Start: 2021.08.27 @ 20:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

44000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	MSW 3%M, 97% W	2.525
130.00	HMCW/OIL Scum 40%M, 60%W	1.824

Total Length: 310.00 ft Total Volume: 4.349 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

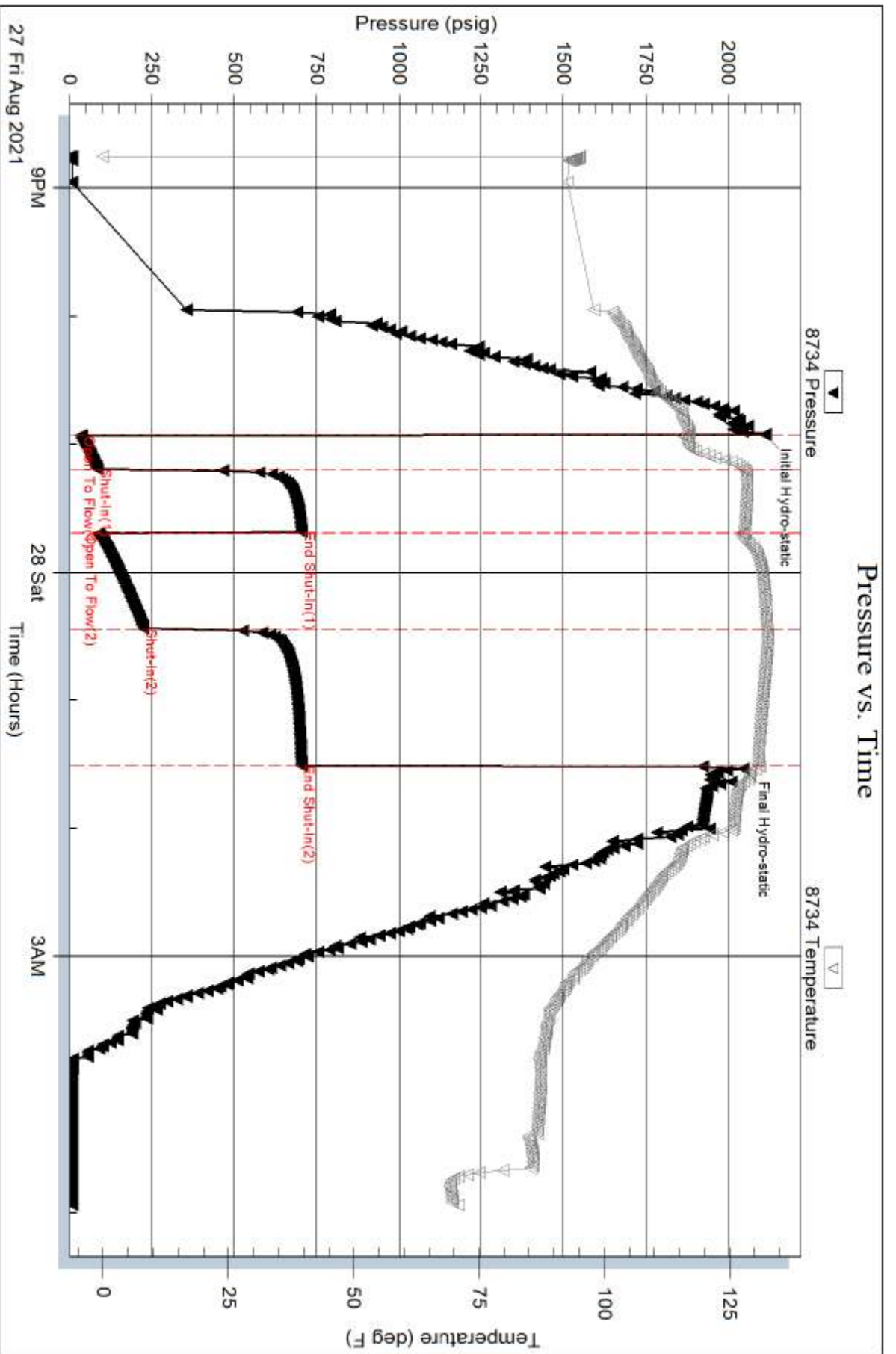
Recovery Comments: RW=.177 @ 69.5 degs = 44,000 PPM

Serial #: 8734

Outside Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 67668

Printed: 2021.08.28 @ 08:02:41

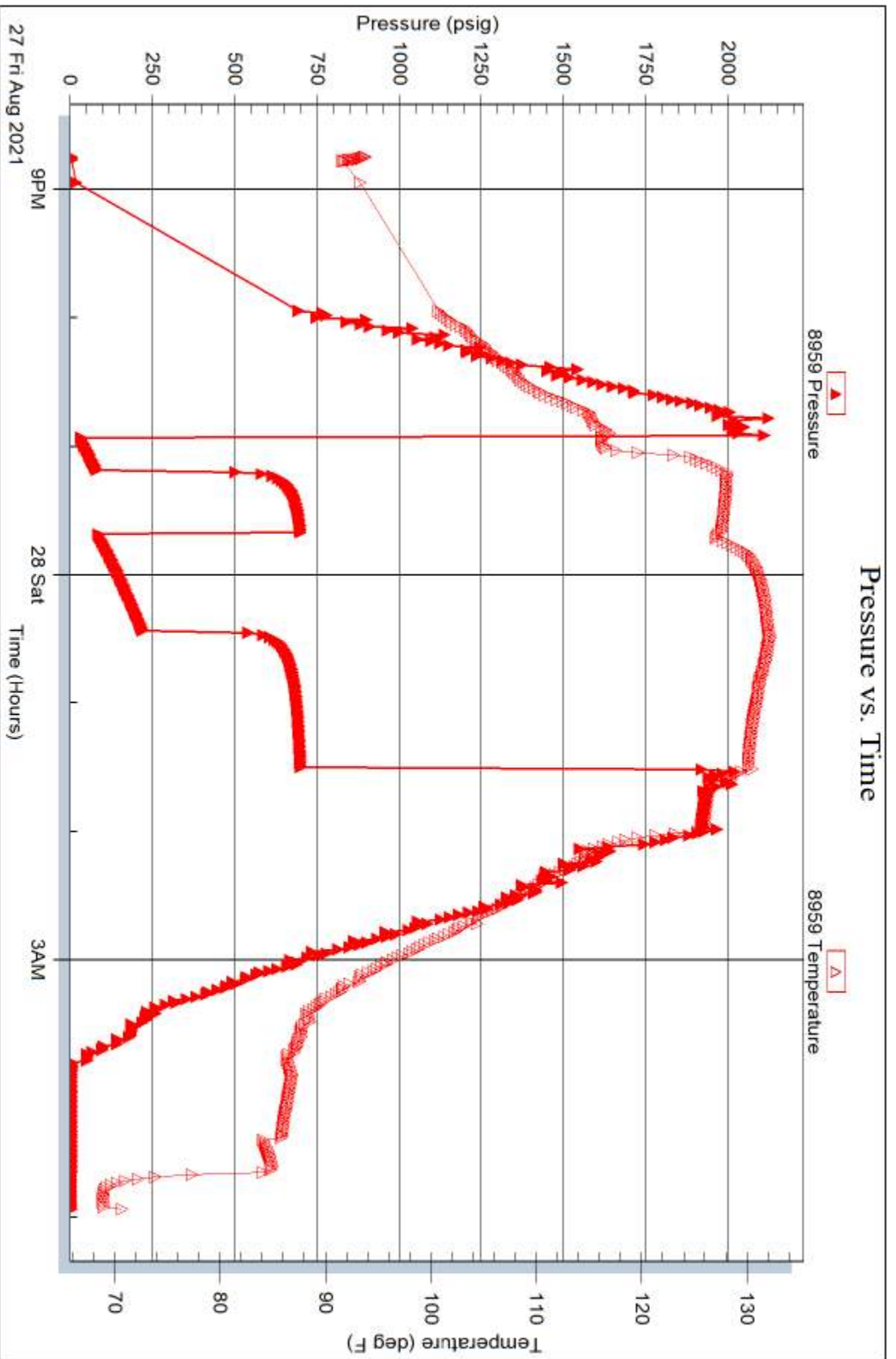
Serial #: 8959

Inside

Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 67668

Printed: 2021.08.28 @ 08:02:41



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

ATTN: Kent Matson

Job Ticket: 67669

DST#: 4

Test Start: 2021.08.28 @ 17:56:00

GENERAL INFORMATION:

Formation: **Pleasanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:03:30

Time Test Ended: 01:53:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4286.00 ft (KB) To 4310.00 ft (KB) (TVD)

Reference Elevations: 2978.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

2970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 109.48 psig @ 4287.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.28

End Date:

2021.08.29

Last Calib.:

2021.08.29

Start Time: 17:56:01

End Time:

01:53:00

Time On Btm:

2021.08.28 @ 20:03:10

Time Off Btm:

2021.08.28 @ 23:06:00

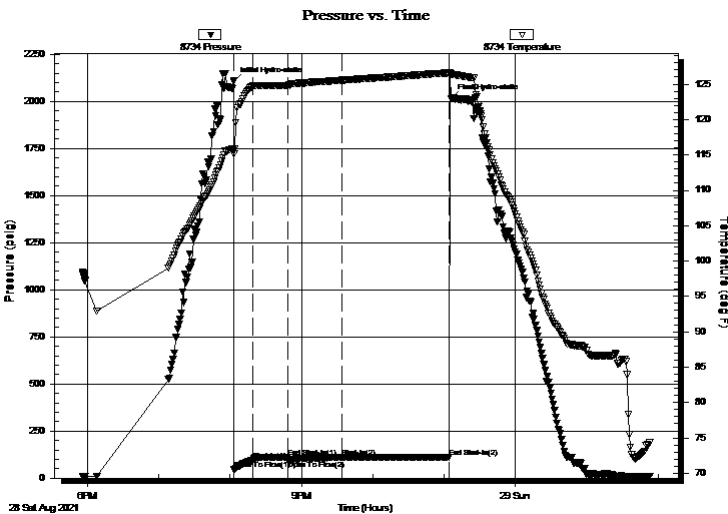
TEST COMMENT: 15-IF-1/2" to B.O.B (11 inches) @ 15 mins

30-ISI-No return

45-FF-S.blow built to 1 1/2" @ 10 mins & decreased to surface blow

90-FSI-No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.45	115.93	Initial Hydro-static
1	44.77	115.19	Open To Flow (1)
16	93.48	124.72	Shut-In(1)
46	112.19	124.80	End Shut-In(1)
46	94.97	124.80	Open To Flow (2)
92	109.48	125.56	Shut-In(2)
181	110.97	126.60	End Shut-In(2)
183	2015.05	126.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
177.00	OCM 5%O, 95%M	2.48
3.00	CO 100%O	0.04

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

Job Ticket: 67669

DST#: 4

ATTN: Kent Matson

Test Start: 2021.08.28 @ 17:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30.4 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
177.00	OCM 5%O, 95%M	2.483
3.00	CO 100%O	0.042

Total Length: 180.00 ft Total Volume: 2.525 bbl

Num Fluid Samples: 0

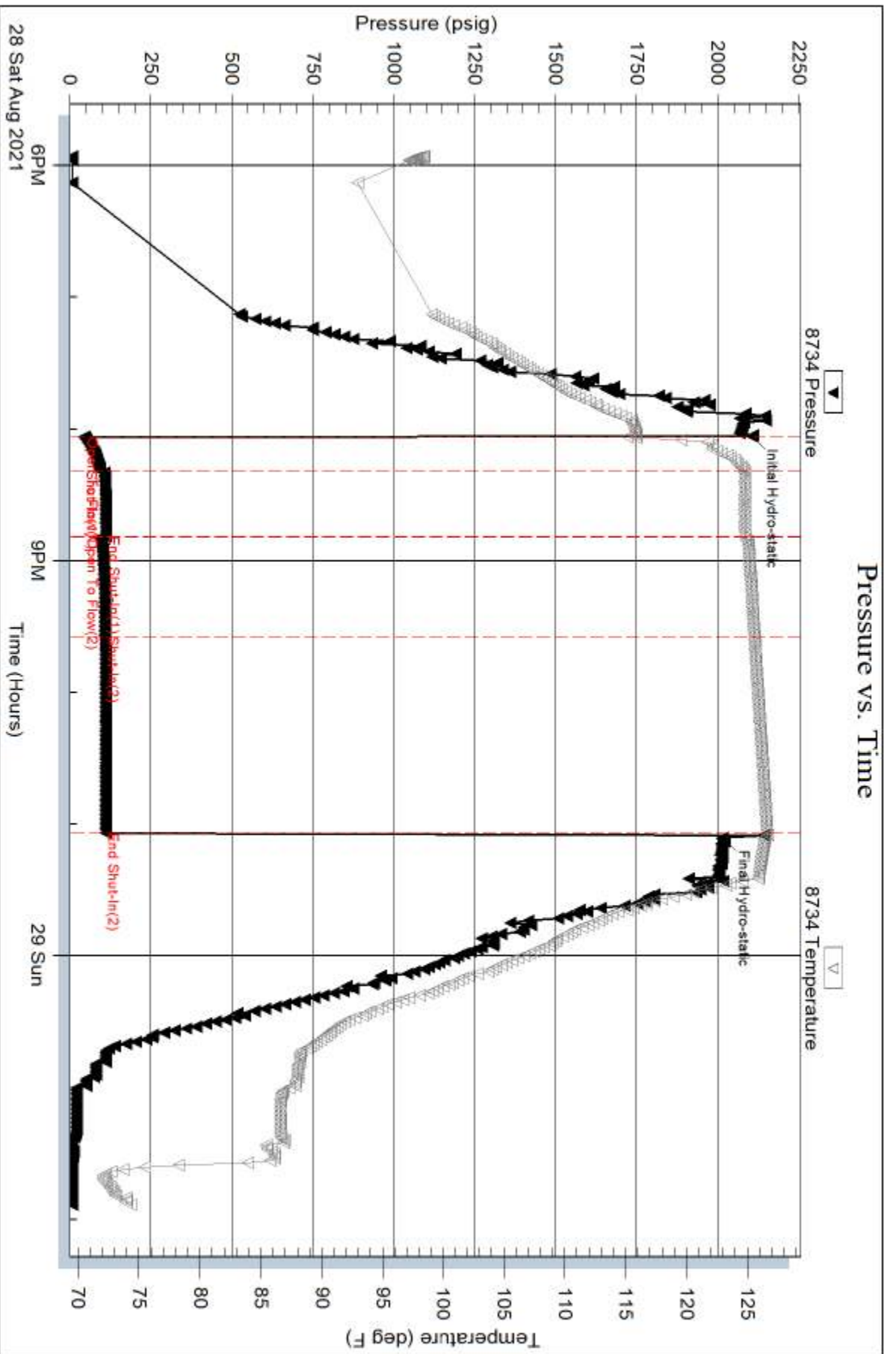
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 32.0 @ 76 degs corrected to 30.4 @ 60 degs



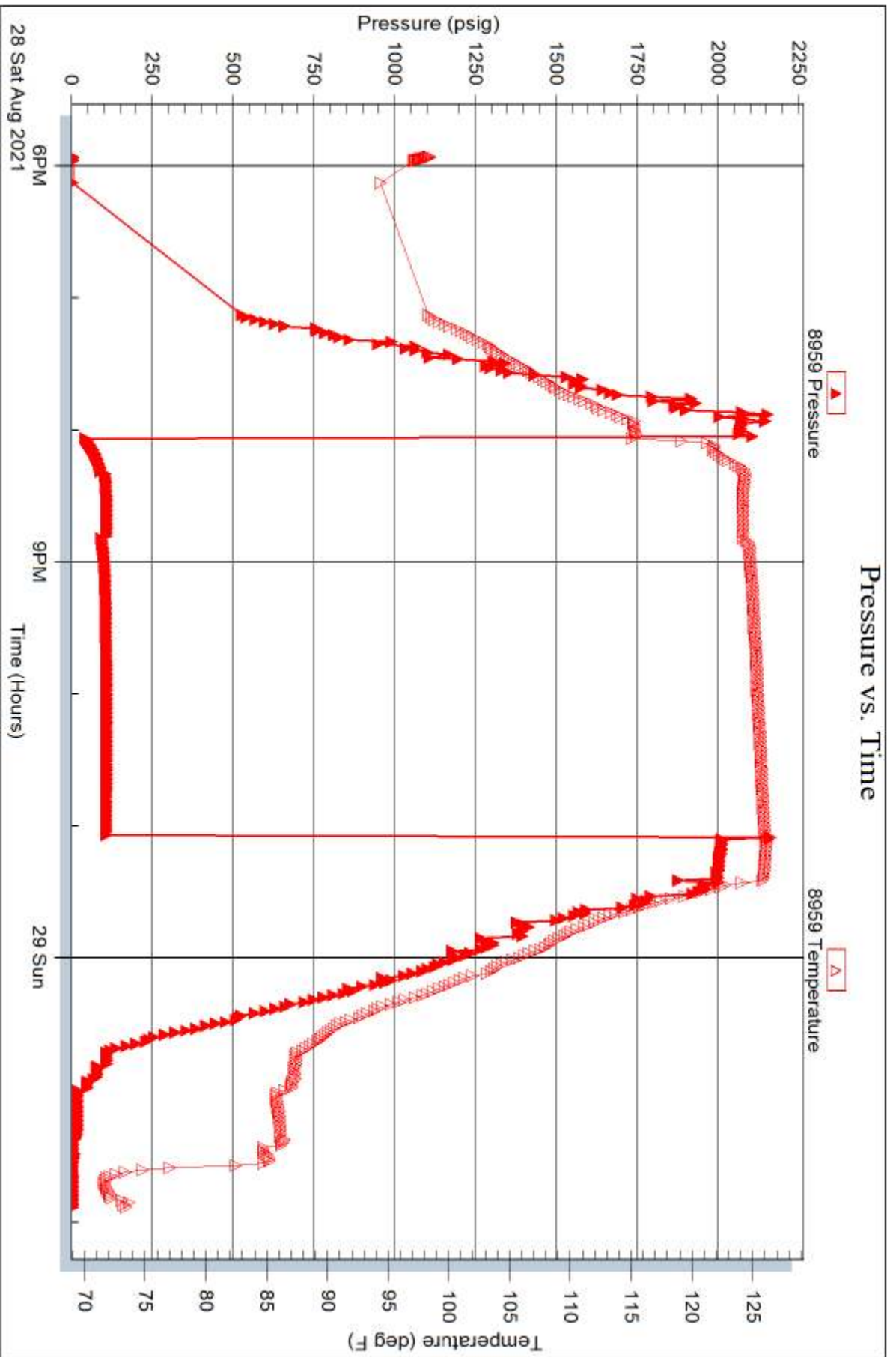
Serial #: 8959

Inside

Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 4



Tribble Testing, Inc

Ref. No: 67669

Printed: 2021.08.29 @ 08:50:09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

ATTN: Kent Matson

Job Ticket: 67670

DST#: 5

Test Start: 2021.08.29 @ 16:07:00

GENERAL INFORMATION:

Formation: **Marmaton " A & B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:20

Time Test Ended: 23:07:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4324.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 2978.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

2970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 212.73 psig @ 4325.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.29

End Date:

2021.08.29

Last Calib.:

2021.08.29

Start Time: 16:07:01

End Time:

23:07:40

Time On Btm:

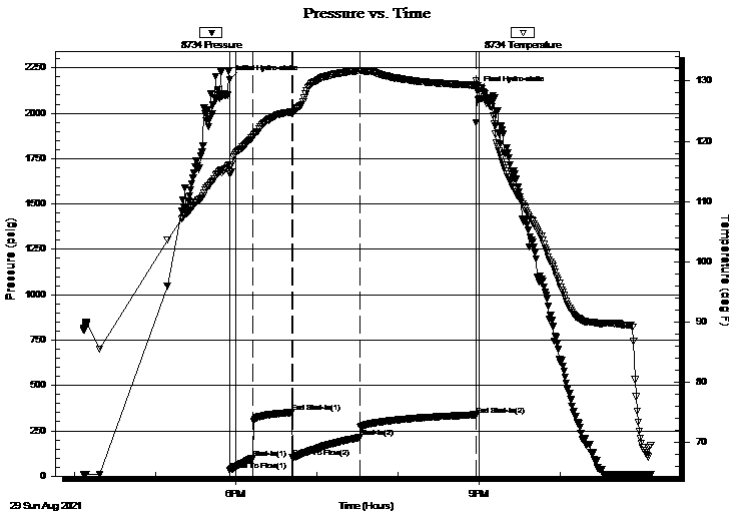
2021.08.29 @ 17:55:10

Time Off Btm:

2021.08.29 @ 20:58:50

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

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2187.21	115.74	Initial Hydro-static
1	29.94	114.53	Open To Flow (1)
17	97.53	120.74	Shut-In(1)
47	351.05	124.86	End Shut-In(1)
47	101.85	124.69	Open To Flow (2)
97	212.73	131.74	Shut-In(2)
183	338.06	129.31	End Shut-In(2)
184	2123.18	129.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	MCW w/Oil Scum	5.61

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

Job Ticket: 67670

DST#: 5

ATTN: Kent Matson

Test Start: 2021.08.29 @ 16:07:00

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:

37000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
400.00	MCW w/Oil Scum	5.611

Total Length: 400.00 ft Total Volume: 5.611 bbl

Num Fluid Samples: 0

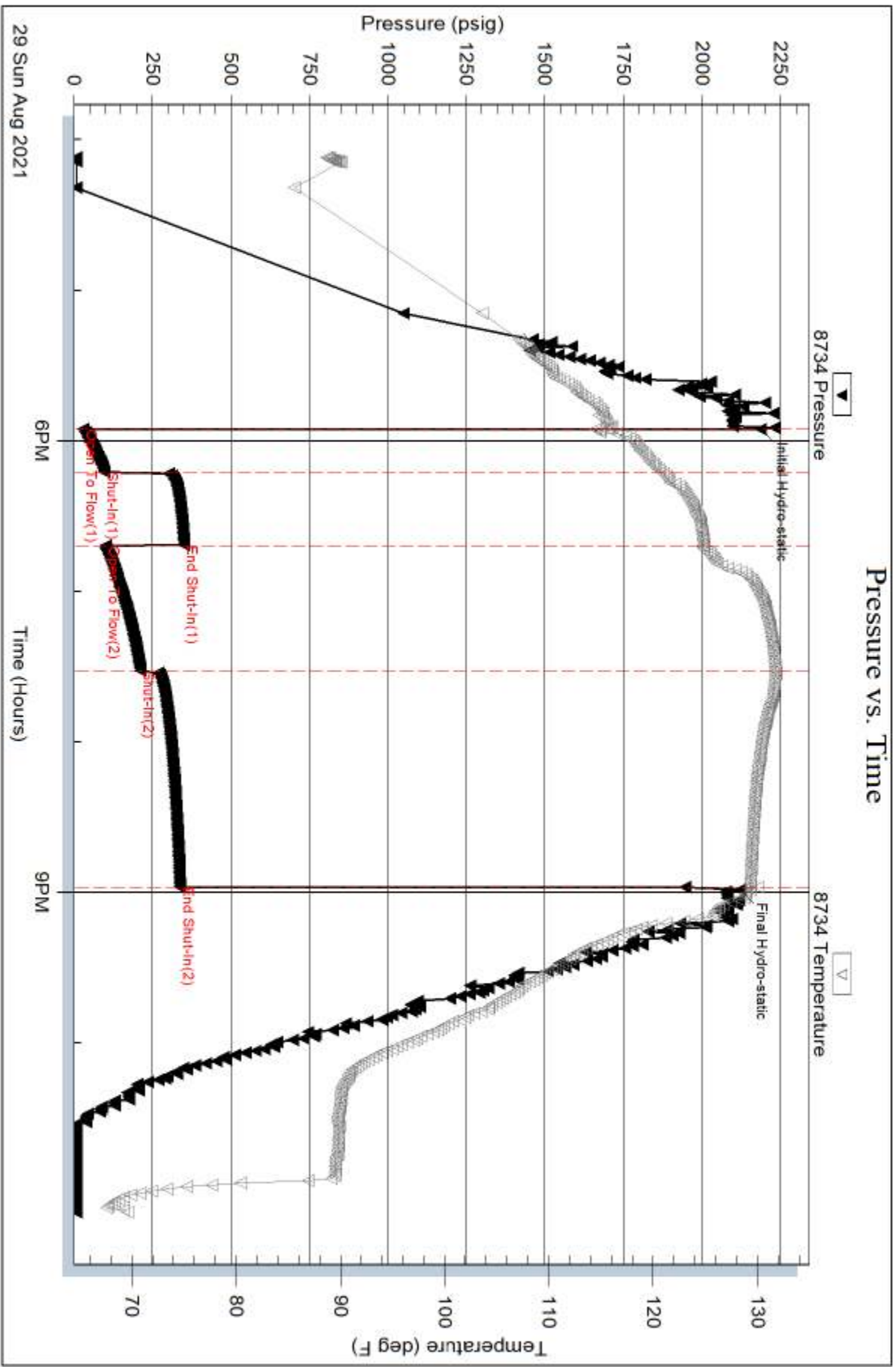
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .20 @ 70.5 = 37,000PPM



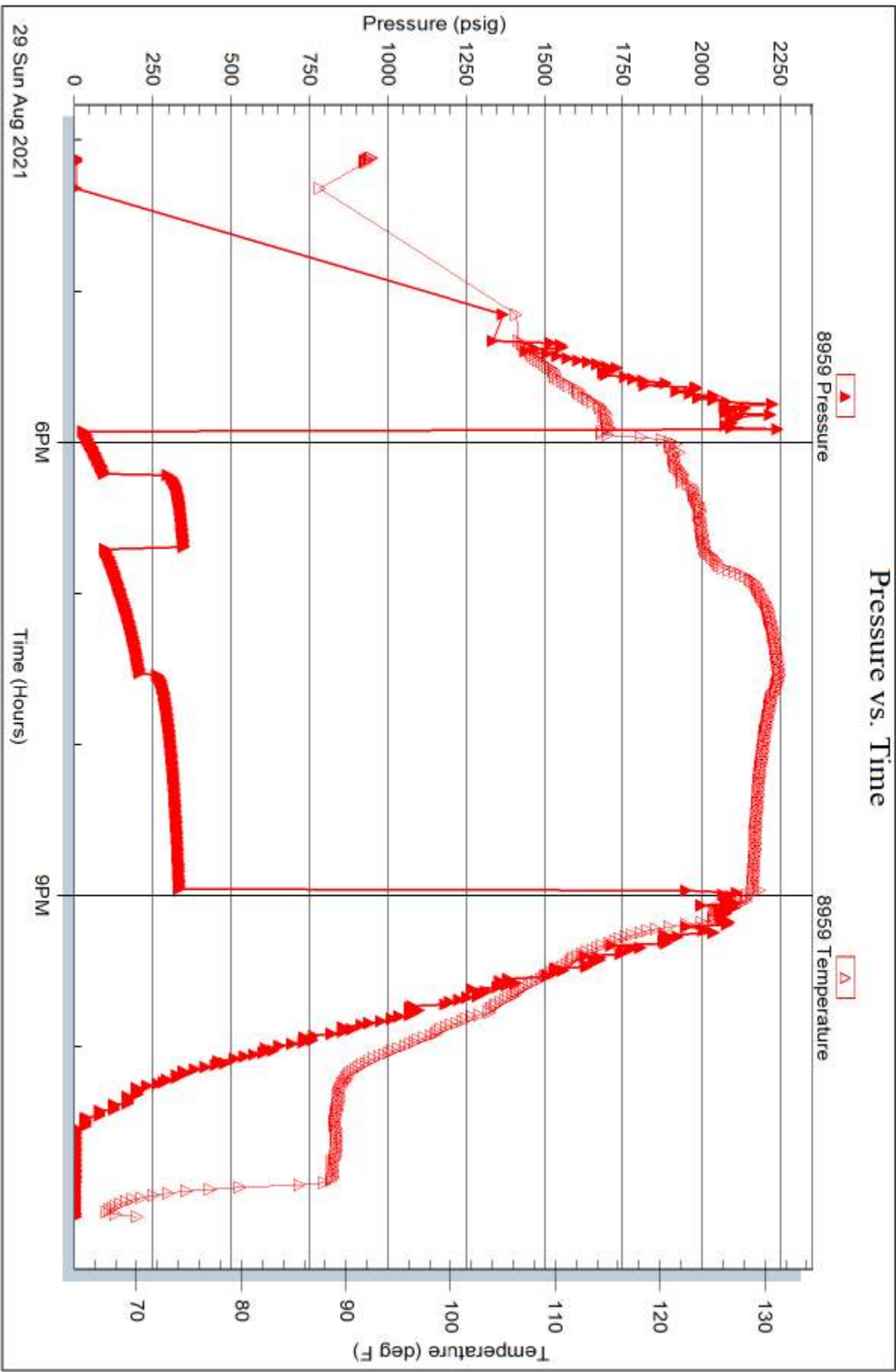
Serial #: 8959

Inside

Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 5





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

ATTN: Kent Matson

Job Ticket: 67671

DST#: 6

Test Start: 2021.08.30 @ 20:50:00

GENERAL INFORMATION:

Formation: **Ft.Scott/ Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:33:00

Time Test Ended: 04:29:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4460.00 ft (KB) To 4512.00 ft (KB) (TVD)

Reference Elevations: 2978.00 ft (KB)

Total Depth: 4512.00 ft (KB) (TVD)

2970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 28.88 psig @ 4461.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.30

End Date:

2021.08.31

Last Calib.: 2021.08.31

Start Time: 20:50:01

End Time:

04:29:00

Time On Btm: 2021.08.30 @ 23:32:50

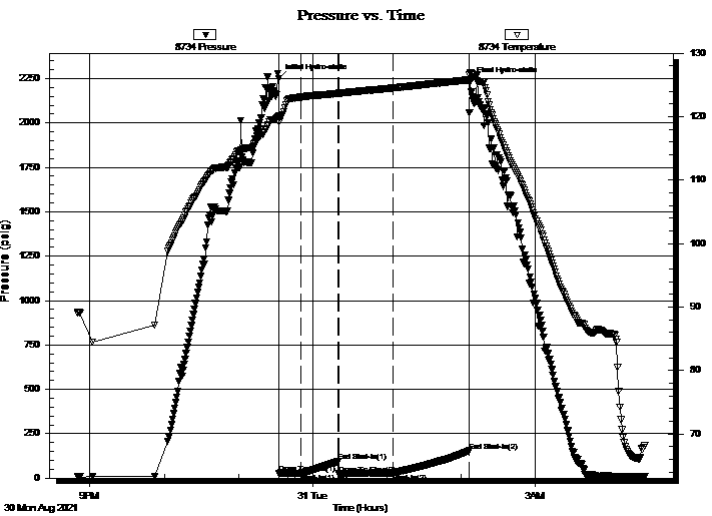
Time Off Btm: 2021.08.31 @ 02:07:39

TEST COMMENT: 15-IF-Weak surface blow to 1 1/2"

30-ISI-No return

45-FF-S.blow to 2 1/2"

60-FSI-No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2249.09	120.06	Initial Hydro-static
1	28.06	119.24	Open To Flow (1)
18	24.95	123.06	Shut-In(1)
48	93.37	123.64	End Shut-In(1)
49	22.19	123.68	Open To Flow (2)
93	28.88	124.50	Shut-In(2)
154	153.21	125.78	End Shut-In(2)
155	2233.04	126.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 25%O, 75%M	0.21
0.00	45' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

Job Ticket: 67671

DST#: 6

ATTN: Kent Matson

Test Start: 2021.08.30 @ 20:50:00

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: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	OCM 25%O, 75%M	0.210
0.00	45' GIP	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

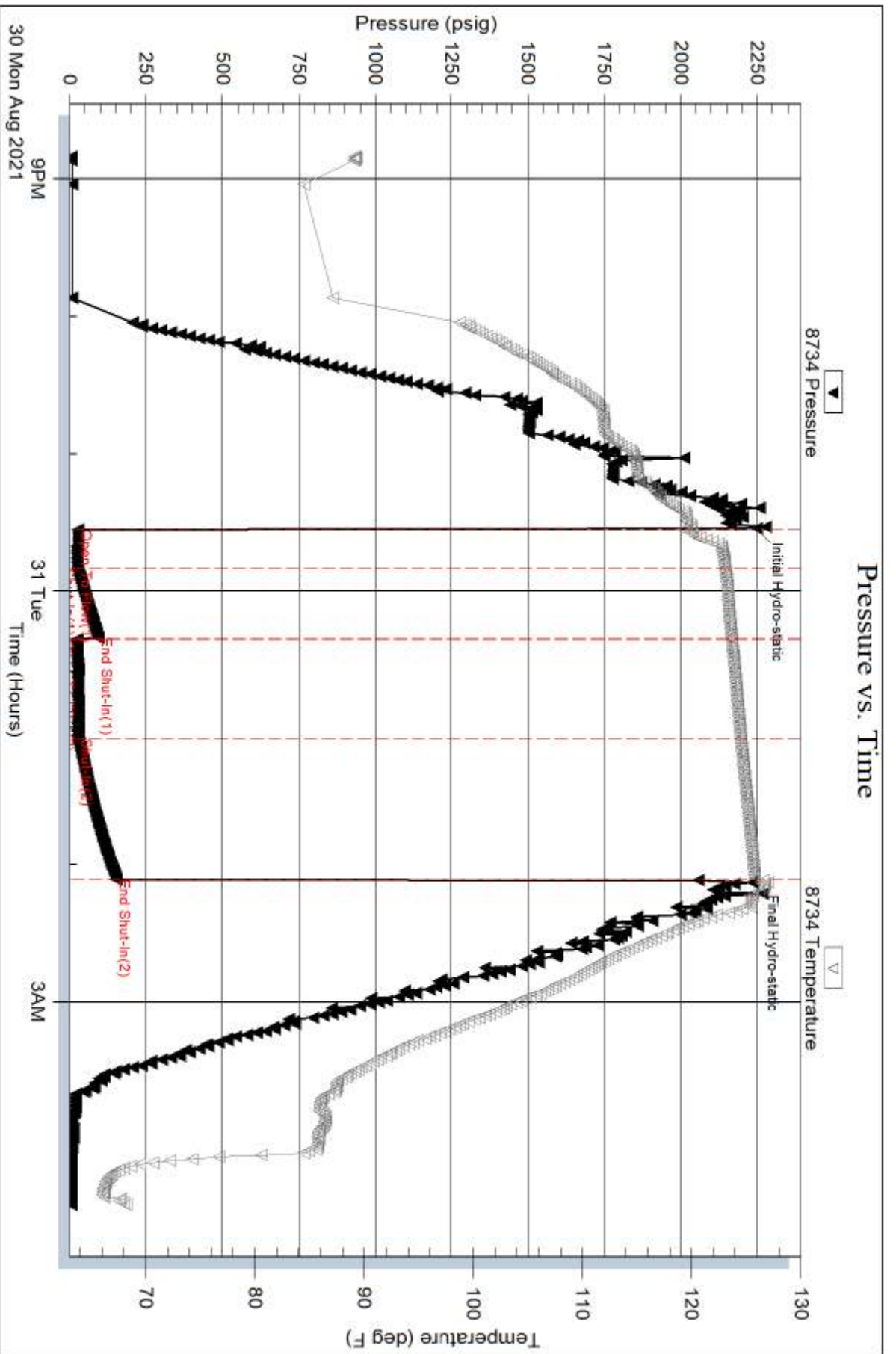
Recovery Comments:

Serial #: 8734

Outside Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 67671

Printed: 2021.08.31 @ 06:48:35

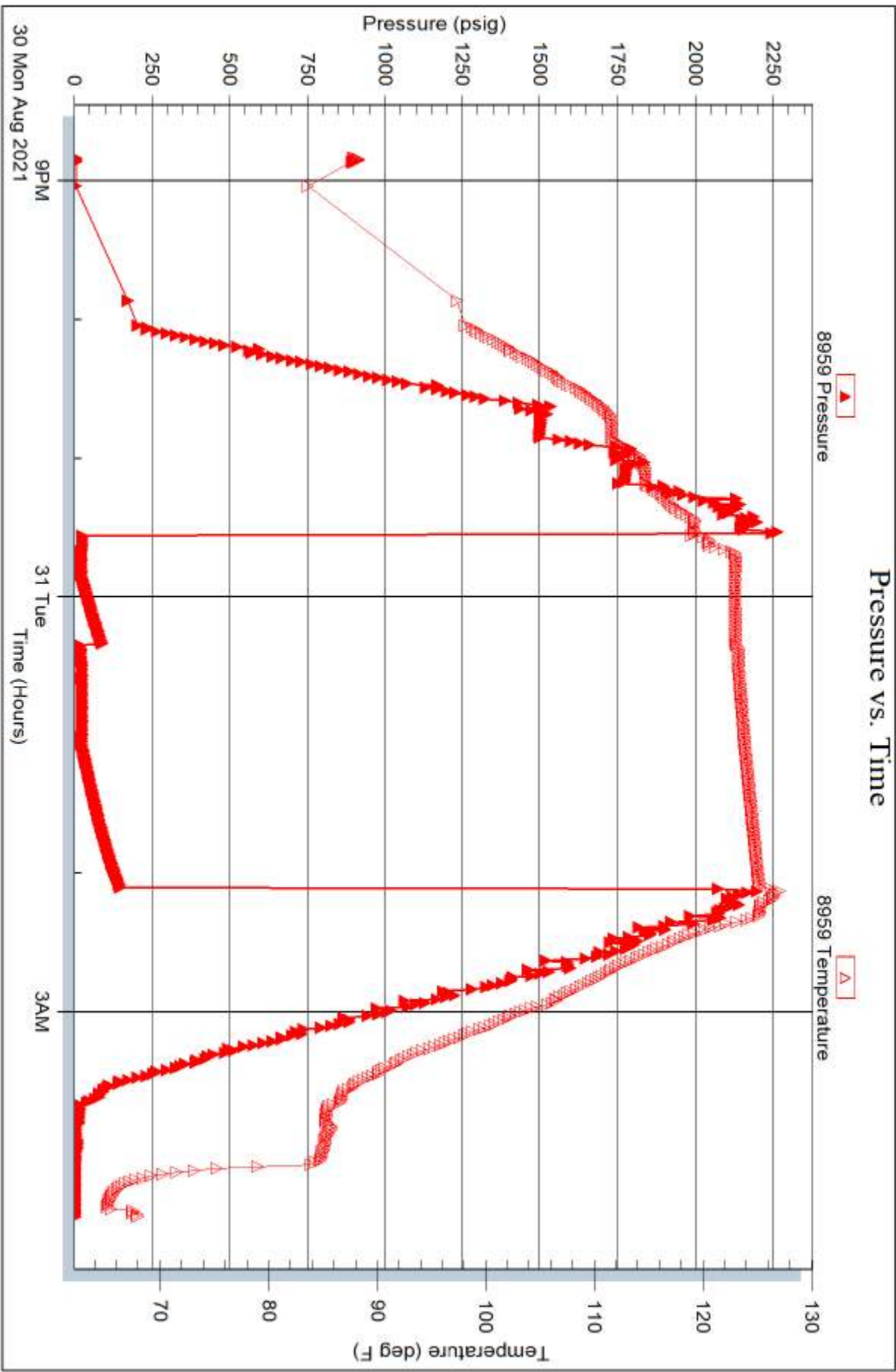
Serial #: 8959

Inside

Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 6



Tribble Testing, Inc

Ref. No: 67671

Printed: 2021.08.31 @ 06:48:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

ATTN: Kent Matson

Job Ticket: 67672

DST#: 7

Test Start: 2021.08.31 @ 15:21:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:22:40

Time Test Ended: 23:03:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Interval: 4523.00 ft (KB) To 4570.00 ft (KB) (TVD)

Reference Elevations: 2978.00 ft (KB)

Total Depth: 4570.00 ft (KB) (TVD)

2970.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 279.45 psig @ 4524.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.31

End Date: 2021.08.31

Last Calib.: 2021.08.31

Start Time: 15:21:01

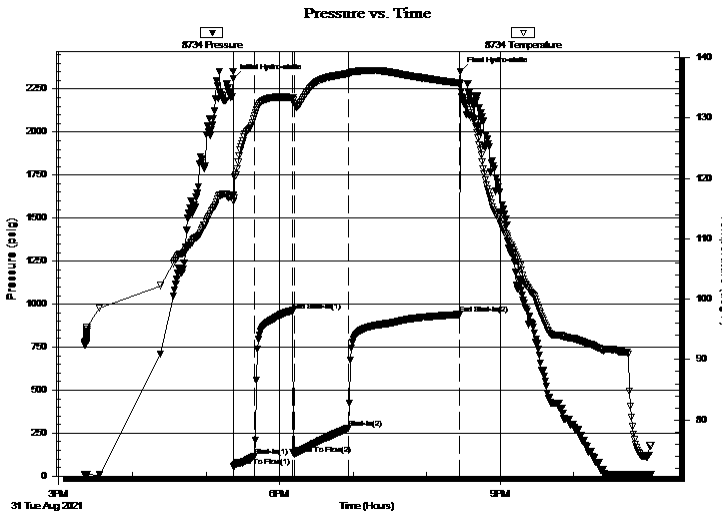
End Time: 23:03:10

Time On Btm: 2021.08.31 @ 17:22:30

Time Off Btm: 2021.08.31 @ 20:27:50

TEST COMMENT: 15-IF-B.O.B (11 inches) @ 3 mins (blow increased to 56 1/2"
30-ISI-Return blow to 9 1/2" decreased to 8 3/4"
45-FF-B.O.B @ 9 mins increased to 88 1/2"
90-FSI-B.O.B @ 15 mins increased to 31 3/4" decreased to 26 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2312.60	117.10	Initial Hydro-static
1	54.22	116.21	Open To Flow (1)
17	115.51	130.31	Shut-In(1)
49	962.33	133.33	End Shut-In(1)
50	128.59	132.41	Open To Flow (2)
94	279.45	137.36	Shut-In(2)
185	939.96	135.78	End Shut-In(2)
186	2353.38	135.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GMCO 38%G, 20%M, 42%O	3.37
410.00	CGO 42%G, 58%O	5.75
0.00	1150' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co INC

13-18-32 Scott, KS

202 W. Main St.
Salem, IL 62881

Tractor # 1-13

Job Ticket: 67672

DST#: 7

ATTN: Kent Matson

Test Start: 2021.08.31 @ 15:21:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	GMCO 38%G, 20%M, 42%O	3.367
410.00	CGO 42%G, 58%O	5.751
0.00	1150' GIP	0.000

Total Length: 650.00 ft Total Volume: 9.118 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

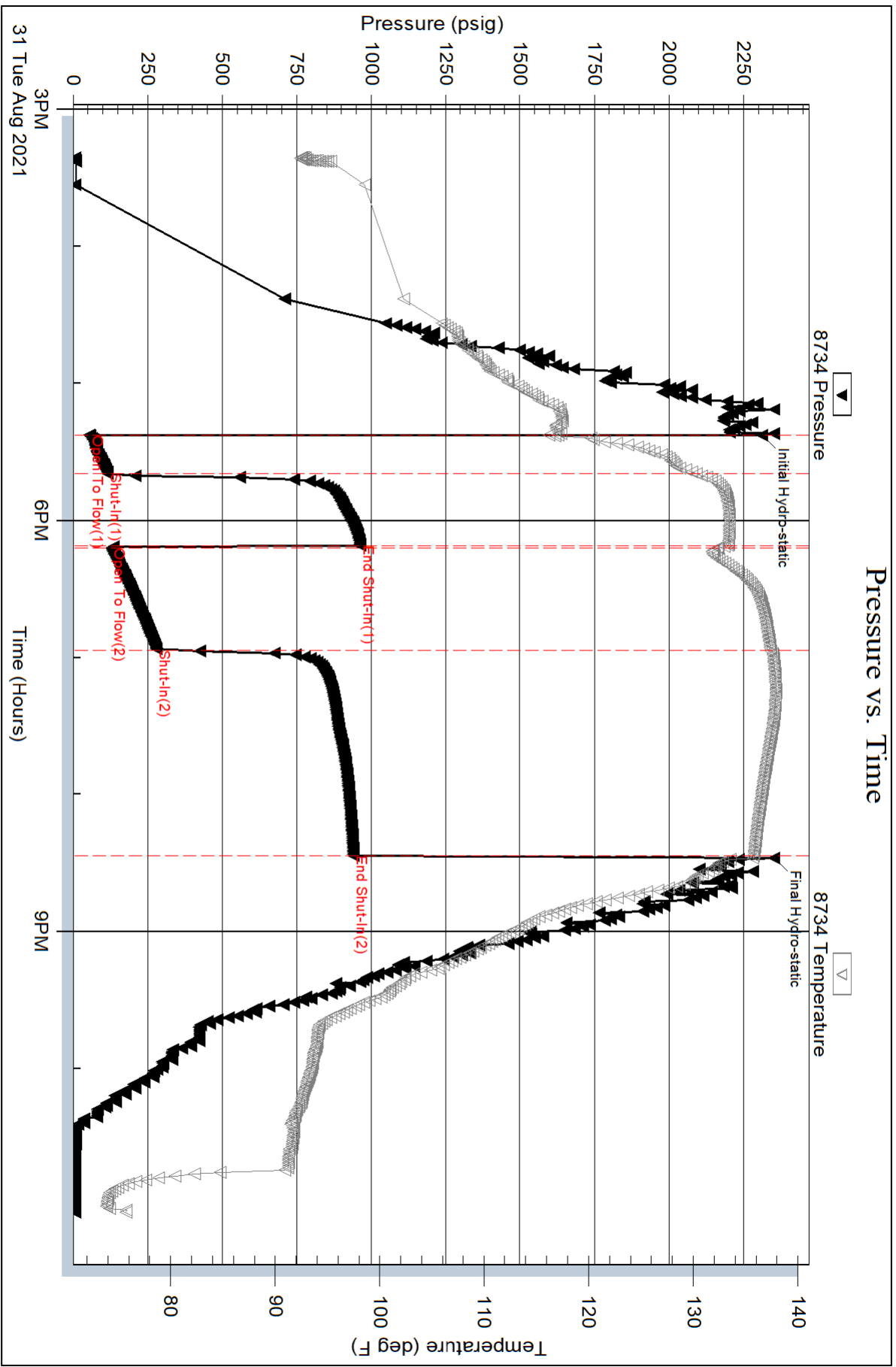
Recovery Comments: Gravity of oil = 34.8 @ 86 degs corrected to 29.2 @ 60 degs

Serial #: 8734

Outside Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 7



Serial #: 8959

Inside

Shakespeare Oil Co INC

Tractor # 1-13

DST Test Number: 7

