

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:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SANDERS COMMUNITY 1-12
Doc ID	1468372

All Electric Logs Run

Dual Induction
Dual Compensated Porosity
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SANDERS COMMUNITY 1-12
Doc ID	1468372

Tops

Name	Top	Datum
Base Anhydrite	2514	+666
Heebner	4005	-825
Lansing	4053	-873
Muncie Creek	4226	-1046
Stark Shale	4318	-1138
Hushpuckney	4365	-1185
Marmaton	4456	-1276
Pawnee	4533	-1353
L. Cherokee Shale	4620	-1440
Johnson	4664	-1484
Mississippian	4807	-1627

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
7/16/2019	32294

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	#1-12	Mazarek Community	Scott	Duke Drlg Rig #4	Oil	Development	Cement Surface ...	Blaine

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	5.00	400.00
576D-S	Pump Charge - <u>Shallow Surface</u> (< 500 Ft.)	1	Job	925.00	925.00
325	Standard Cement	175	Sacks	13.50	2,362.50T
279	Bentonite Gel	3	Sack(s)	30.00	90.00T
278	Calcium Chloride	8	Sack(s)	40.00	320.00T
276	Flocele	50	Lb(s)	3.00	150.00T
581D	Service Charge Cement	175	Sacks	1.85	323.75
583D	Drayage	688	Ton Miles	0.95	653.60
	Subtotal				5,224.85
	Sales Tax Wichita County			8.50%	248.41

Sanders

INT

502 - 5

RECEIVED
JUL 22 2019

We Appreciate Your Business!	Total	\$5,473.26
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DW



TICKET 032294

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

SERVICE LOCATIONS:
 1. 100 City KS WELL/PROJECT NO. 1-12-10 LEASE Community COUNTY/PARISH Wichita STATE KS CITY Pence DATE 10.1.19 OWNER
 2. TICKET TYPE SERVICE SALES CONTRACTOR Attag RIG NAME/NO. 4 SHIPPED VIA DELIVERED TO
 3. WELL TYPE Oil WELL CATEGORY Developments WELL PERMIT NO. WELL LOCATION 20-16-34
 4. WELL PURPOSE connect surface pipe

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOU
		LOC	ACCT							
575		1			40	mi			5.00	400.00
576.5		1		MILEAGE <u>TRK 1/4</u>	1.04				925.00	925.00
325		1		<u>Pump Change (Shellac surface)</u>	175	sk			13.50	2362.50
279		1		<u>Standard cement</u>	300	lb	3	sk	30.00	900.00
278		1		<u>Bentonite gel</u>	400	lb	4	sk	40.00	3200.00
276		1		<u>Calcium chloride</u>	50	lb			3.00	150.00
581		1		<u>Service charge</u>	175	sk			1.85	323.75
583		1		<u>Drayage</u>	17200	lb	688	TM	0.95	6537.60

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

SURVEY
 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?
 YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL 5324.85
 TOTAL 5473.26

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 TIME SIGNED A.M. P.M. 2:10

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

SWIFT OPERATOR Agul APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 16 Jul 19 PAGE NO. 1

CUSTOMER Shakespeare WELL NO. 1-12 LEASE Alder Community JOB TYPE Cement surface pipe TICKET NO. 32294

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175sk standard cement 3% gel 2% CC 1/4" flocculant joints 8 5/8" 23" casing 263'
	1800							on loc TRX 114
	1810							start 8 5/8" 23" casing in well
	1900							circulate well
	1915	3 1/2	45			200		Mix STD cement 2% 5% 1.95 sk @ 14.7 ppm
		2				750		Displace w/ H ₂ O
	1935	2	15 1/2			200		→ cement to surface ← Kickout
								shot in 8 5/8" 175 sk mixed 20 top it
	1940							wash truck
								Rack up
	2010							job complete
								Blaine, Flint & ISAAC

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
7/27/2019	32246

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	#1-12	Sanders	Wichita	Duke Drlg Rig #4	Oil	Development	PTA	Gideon

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	85	Miles	5.00	425.00
576D-P	Pump Charge - PTA	1	Job	925.00	925.00
328-4	60/40 Pozmix (4% Gel)	280	Sacks	11.00	3,080.00T
276	Flocele	50	Lb(s)	3.00	150.00T
290	D-Air	4	Gallon(s)	42.00	168.00T
581D	Service Charge Cement	280	Sacks	1.85	518.00
583D	Drayage	1,048	Ton Miles	0.95	995.60
	Subtotal				6,261.60
	Sales Tax Wichita County			8.50%	288.83

plugging INT

502-17

RECEIVED
AUG 02 2019

We Appreciate Your Business!	Total	\$6,550.43
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DW



TICKET 032246

PAGE 1 OF 1

CHARGE TO: *Shakespeare Oil + Gas*
 ADDRESS
 CITY, STATE, ZIP CODE

WELL/PROJECT NO. *1-13* LEASE *Sadders* COUNTY/PARISH *Wichita* CITY *Pence* STATE *KS* DATE *7-27-19* OWNER
 TICKET TYPE SERVICE SALES CONTRACTOR *Duke* RIG NAME/NO. *4* SHIPPED VIA *GT* DELIVERED TO *Lorshor* ORDER NO.
 WELL TYPE *Oil* WELL CATEGORY *Development Plug to Abandon* JOB PURPOSE *Development Plug to Abandon* WELL PERMIT NO. *Pence 2-W 2-N 1-W* WELL LOCATION *S-1ab*
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
<i>576</i>		<i>1</i>			<i>85</i>	<i>mi</i>			<i>5.00</i>	<i>425.00</i>
<i>576P</i>		<i>1</i>		<i>Pump Charge</i>	<i>1</i>	<i>job</i>			<i>925.00</i>	<i>925.00</i>
<i>328-4</i>		<i>1</i>		<i>60/40 Pez mix</i>	<i>280</i>	<i>skt</i>			<i>11.00</i>	<i>3080.00</i>
<i>276</i>		<i>1</i>		<i>Floceel</i>	<i>50</i>	<i>lbs</i>			<i>3.00</i>	<i>150.00</i>
<i>290</i>		<i>1</i>		<i>D-Air</i>	<i>4</i>	<i>gal</i>			<i>42.00</i>	<i>168.00</i>
<i>581</i>		<i>1</i>		<i>CMT Service Charge</i>	<i>280</i>	<i>skt</i>			<i>1.95</i>	<i>518.00</i>
<i>583</i>		<i>1</i>		<i>Drayage</i>	<i>2400</i>	<i>lbs</i>	<i>1048</i>	<i>TM</i>	<i>0.195</i>	<i>995.00</i>

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 *Heath Jones* TIME SIGNED *7-27-2019 12:00* A.M. P.M.

DATE SIGNED *7-27-2019*

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

Wichita TAX *288.83*

PAGE TOTAL *6361.00*

TOTAL *6350.43*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR *Yadum Fuchs* APPROVAL
 Thank You!

JOB LOG

SWIFT Services, Inc.

DATE

7-27-19

PAGE NO.

1

CUSTOMER: *Shakespeare Oil + Gas* WELL NO.: *1-12* LEASE: *Sanders Community* JOB TYPE: *Plug to Abandon* TICKET NO.:

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							On Location 4 1/2" DP 7 1/8" RTD: 4900'
	0830	3 1/2	10			300		Pump 10 bbl H2O Spacer Plug @ 2530' w/ 50 sks of 60/40 Poz @ 13.1 ppq Displace CMT w/ Mud w/ Ry Mud Pump
		3 1/2	13			300		
		8 1/4	24					
	0920	3 1/2	10			200		Pump 10 bbl H2O Spacer Plug @ 1600' w/ 80 sks 60/40 Poz @ 13.1 ppq Displace CMT
		3 1/2	21			200		
		3 1/2	12 1/2			150		
	1010	3 1/2	10			100		Pump 10 bbl H2O Spacer Plug @ 800' w/ 50 sks of 60/40 Displace CMT
		3 1/2	13			100		
		3 1/2	50 1/2			100		
	1100	3 1/2	85			100		Pump 5 bbl H2O Spacer Plug @ 300' w/ 50 sks of 60/40 Displace CMT
		3 1/2	13			100		
		3 1/2	1			100		
	1115	3 1/2	5 1/4			50		Plug @ 60' Circulate to Surface
	1120	22	8			0		Plug Rothole Wash up Trk #115
	1145							Job Complete 280 sks of 60/40 Pozmix 1/4" Fto used Thanks Andrew, Preston, Rusty

Tim J. Lauer

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY	Shakespeare Oil Co., Inc	
LEASE	Sanders Community #1-12	
FIELD	Wildcat	
LOCATION	2380' FWL, 1170' FWL, NW/4	
SEC	12	TWSP 16S RGE 35W
COUNTY	Wichita	STATE Kansas
CONTRACTOR	Duke Drilling Rig #4	
SPUD	7-16-2019	COMP 7-27-2019
RTD	4900'	LTD 4900'
MUD UP	3525' TYPE MUD: Chemical	

SAMPLES SAVED FROM	3700	TO RTD
DRILLING TIME KEPT FROM	3700	TO RTD
SAMPLES EXAMINED FROM	3700	TO RTD
GEOLOGICAL SUPERVISION FROM	3680	TO RTD
GEOLOGIST ON WELL	Tim J. Lauer	

FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG
Anhydrite	2499 (+681)	
Heebner	4005 (-825)	
Lansing	4053 (-873)	
Muncie Creek	4228 (-1048)	
Stark	4319 (-1139)	
Marmaton	4465 (-1285)	
Cherokee Shale		
Johnson Zone		
Mississippian		
Total Depth		

COMPANY & WELL: Shakespeare #1-12 Sanders Comm.

LOCATION: 2380' FWL, NW/4 SE SW/4

SEC: 12 TWSP: 16S RGE: 35W

COUNTY: Wichita STATE: KS

ELEVATIONS

KB 3180'

DF

GL 3171'

Measurements Are All From 3180' KB

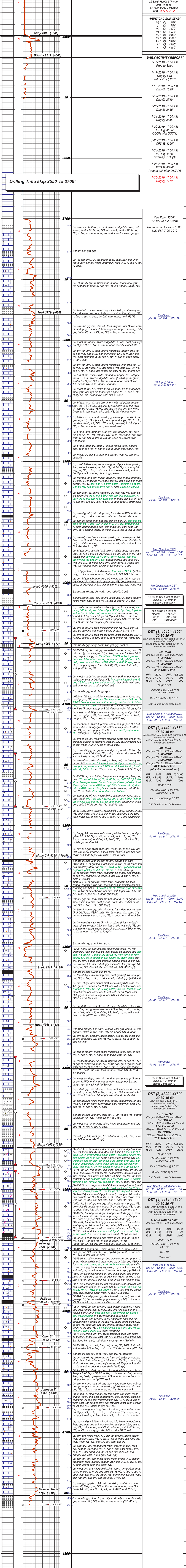
CASING

CONDUCTOR SURFACE: 8 5/8" @ 262'

PRODUCTION:

REMARKS

Lat: 38.678642773
Long: 101.142637592
NAD 83
API: 15-203-20,361-00-00



Drilling Time skip 2550' to 3700'

Call Point 3550' 12:40 PM 7-20-2019

Geologist on location 3680' 6:20 PM 7-20-2019

15 Stand Short Trip at 4105' Pulled 30-40k over on stands 2 through 9

Pipe Check at DST (1) Board: 4114.33' Strap: 4110.49' Diff: 3.84 short

DST (1) 4045' - 4105' 30-30-30-45 Blow: strong, Bob 8 min, built to 17' on FFP, no blowback on FSP

24# Mud (0% gas, 0% oil, 100% mud, 0% wtr) 124' WCM (10% gas, 0% oil, 70% mud, 30% wtr) 124' MCW (0% gas, 0% oil, 10% mud, 90% wtr) 49# Total Fluid IHP: 2080 FFP: 152-226 ISIP: 1089 FHP: 1902 Temp: 112F Chlorides MUD: 3,000 PPM DST: 2,815 PPM Rw = 0.230 Ohms @ 61.2F Both Shut-in curves broken over

Mud Check at 4105 after DST: IHP: 2147 FFP: 157-400 ISIP: 48-153 FHP: 1101 Temp: 114F Chlorides MUD: 4,000 PPM DST: 27,000 PPM Rw = 0.405 Ohms @ 61.3F Both Shut-in curves broken over

DST (2) 4140' - 4185' 15-30-45-90 Blow: strong, Bob 9 min, built to 22' on FFP, no blowback on FSP

20# Mud (0% gas, 0% oil, 100% mud, 0% wtr) 186' MCW (0% gas, 0% oil, 40% mud, 60% wtr) 434' MCW (0% gas, 0% oil, 10% mud, 90% wtr) 82# Total Fluid (oil skin top of tool) IHP: 2147 FFP: 157-400 ISIP: 48-153 FHP: 1101 Temp: 114F Chlorides MUD: 4,000 PPM DST: 27,000 PPM Rw = 0.405 Ohms @ 61.3F Both Shut-in curves broken over

Mud Check at 4260 IHP: 2147 FFP: 152-226 ISIP: 54-98 FHP: 1211 Temp: 112F Chlorides MUD: 6,000 PPM DST: NA Rw = 0.378 Ohms @ 72.3F Both Shut-in curves broken over

DST (3) 4390' - 4480' 30-30-45-60 Blow: weak, built to 7.5' on IFF, fair-good, built to 8.5' on FFP, no blowback on FSP

10' Free Oil (0% gas, 0% oil, 50% mud, 0% wtr) 124' O&WCM (0% gas, 0% oil, 80% mud, 10% wtr) 62' SOCM (0% gas, 2% oil, 98% mud, 0% wtr) 231' Total Fluid IHP: 2309 FFP: 112-510 ISIP: 1223 FHP: 1211 Temp: 112F Chlorides MUD: 5,000 PPM DST: NA Rw = 0.378 Ohms @ 60.0F Both Shut-in curves broken over

Mud Check at 4480 after DST: IHP: 2309 FFP: 112-510 ISIP: 54-98 FHP: 1211 Temp: 112F Chlorides MUD: 6,000 PPM DST: NA Rw = 0.378 Ohms @ 60.0F Both Shut-in curves broken over

DST (4) 4484' - 4540' 30-30-30-45 Blow: weak surface blow, died 7' on FFP, no blowback on FSP

5' Gas Mud with oil skin (0% gas, 0% oil, 100% mud, 0% wtr) IHP: 2354 FFP: 32-33 ISIP: 53 FHP: 2199 Temp: 112F Chlorides MUD: 6,000 PPM DST: NA Rw = NA

Mud Check at 4547: IHP: 2354 FFP: 32-33 ISIP: 53 FHP: 2199 Temp: 112F Chlorides MUD: 6,000 PPM DST: NA Rw = NA



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

12-16-35 Wichita Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Lauer

Sanders Comm. 1-12

Job Ticket: 64839 **DST#: 1**

Test Start: 2019.07.21 @ 00:36:15

GENERAL INFORMATION:

Formation: **Lansing A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:55:30

Time Test Ended: 07:21:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4045.00 ft (KB) To 4105.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4105.00 ft (KB) (TVD)

3170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8521

Inside

Press@RunDepth: 226.21 psig @ 4080.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.21

End Date:

2019.07.21

Last Calib.: 2019.07.22

Start Time: 00:36:15

End Time:

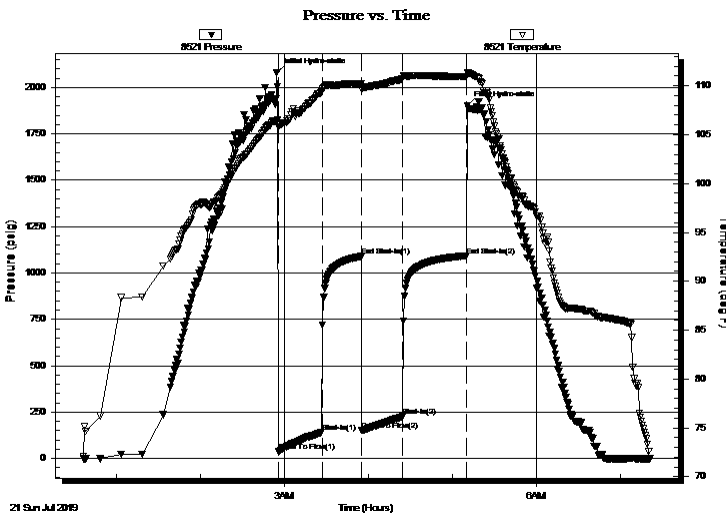
07:21:45

Time On Btm: 2019.07.21 @ 02:54:30

Time Off Btm: 2019.07.21 @ 05:10:45

TEST COMMENT: IF:BOB in 18 min. Built to 18 1/4" blow
IS:No return blow
FF:BOB in 12 min. Built to 17 1/4" blow
FS:No return blow

PRESSURE SUMMARY



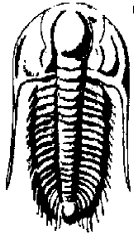
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2080.76	106.40	Initial Hydro-static
1	37.88	105.81	Open To Flow (1)
33	142.46	109.31	Shut-In(1)
61	1089.60	110.23	End Shut-In(1)
61	152.74	109.65	Open To Flow (2)
90	226.21	110.74	Shut-In(2)
136	1092.75	110.94	End Shut-In(2)
137	1902.56	111.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	mud 100%m	3.48
124.00	w cm 30%w 70%m	1.74
124.00	mcw 30%m 70%w	1.74

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 West Main St
Salem IL
62881
ATTN: Tim Lauer

12-16-35 Wichita Co KS

Sanders Comm. 1-12

Job Ticket: 64839 **DST#: 1**

Test Start: 2019.07.21 @ 00:36:15

GENERAL INFORMATION:

Formation: **Lansing A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:55:30

Time Test Ended: 07:21:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4045.00 ft (KB) To 4105.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4105.00 ft (KB) (TVD)

3170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8968 Outside

Press@RunDepth: psig @ 4080.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.21 End Date: 2019.07.21

Last Calib.: 2019.07.22

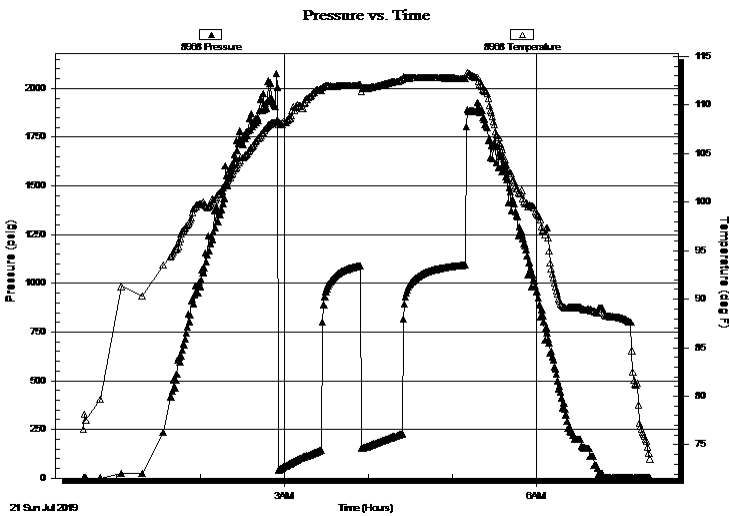
Start Time: 00:36:15 End Time: 07:21:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 18 min. Built to 18 1/4" blow
IS:No return blow
FF:BOB in 12 min. Built to 17 1/4" blow
FS:No return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
248.00	mud 100%m	3.48
124.00	w cm 30%w 70%m	1.74
124.00	mcw 30%m 70%w	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.Inc.

12-16-35 Wichita Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Lauer

Sanders Comm. 1-12

Job Ticket: 64839 **DST#: 1**

Test Start: 2019.07.21 @ 00:36:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 28000 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

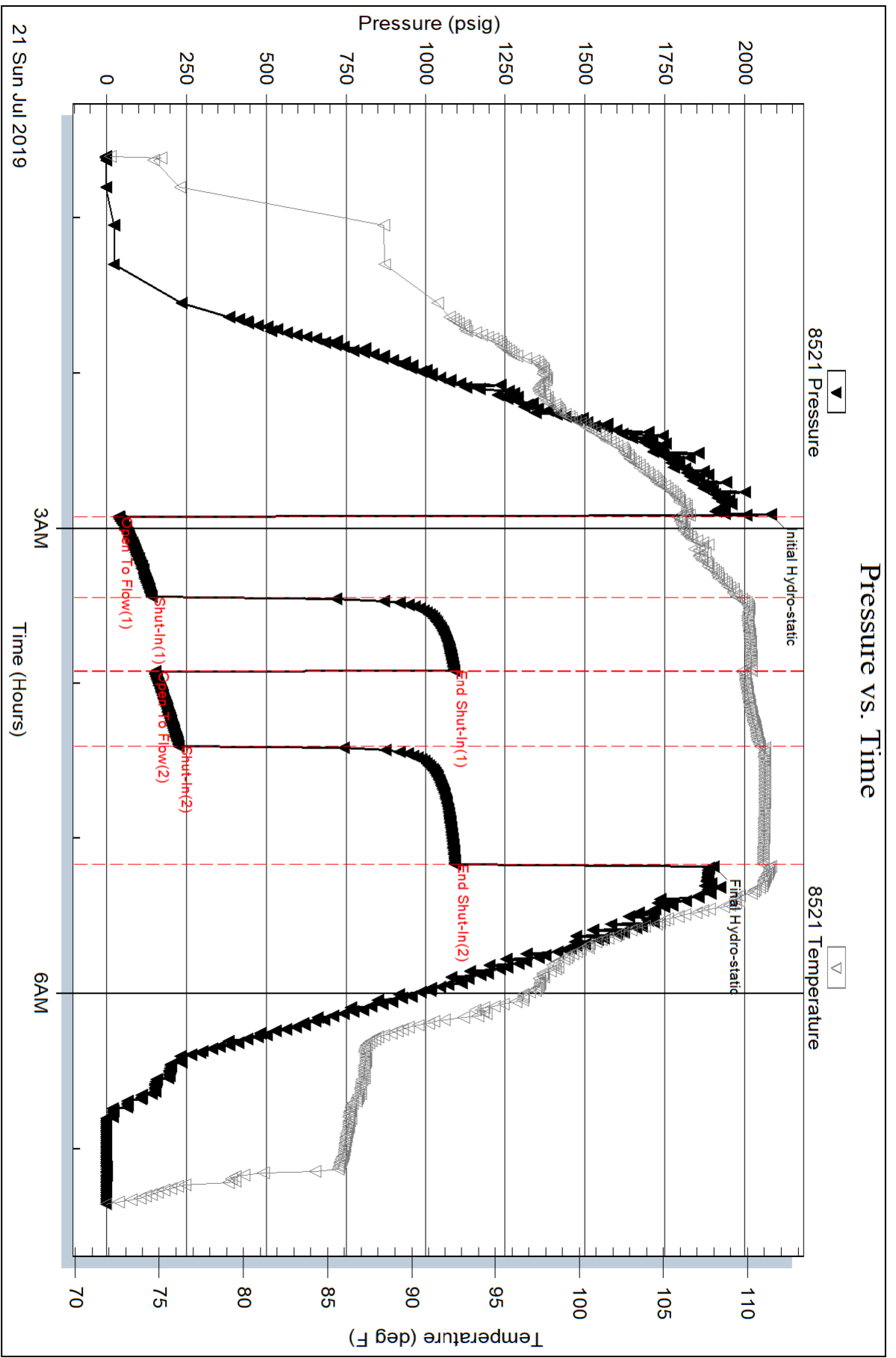
Length ft	Description	Volume bbl
248.00	mud 100%m	3.479
124.00	w cm 30%w 70%m	1.739
124.00	mcw 30%m 70%w	1.739

Total Length: 496.00 ft Total Volume: 6.957 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .315@ 61.2= 28,000 ppm

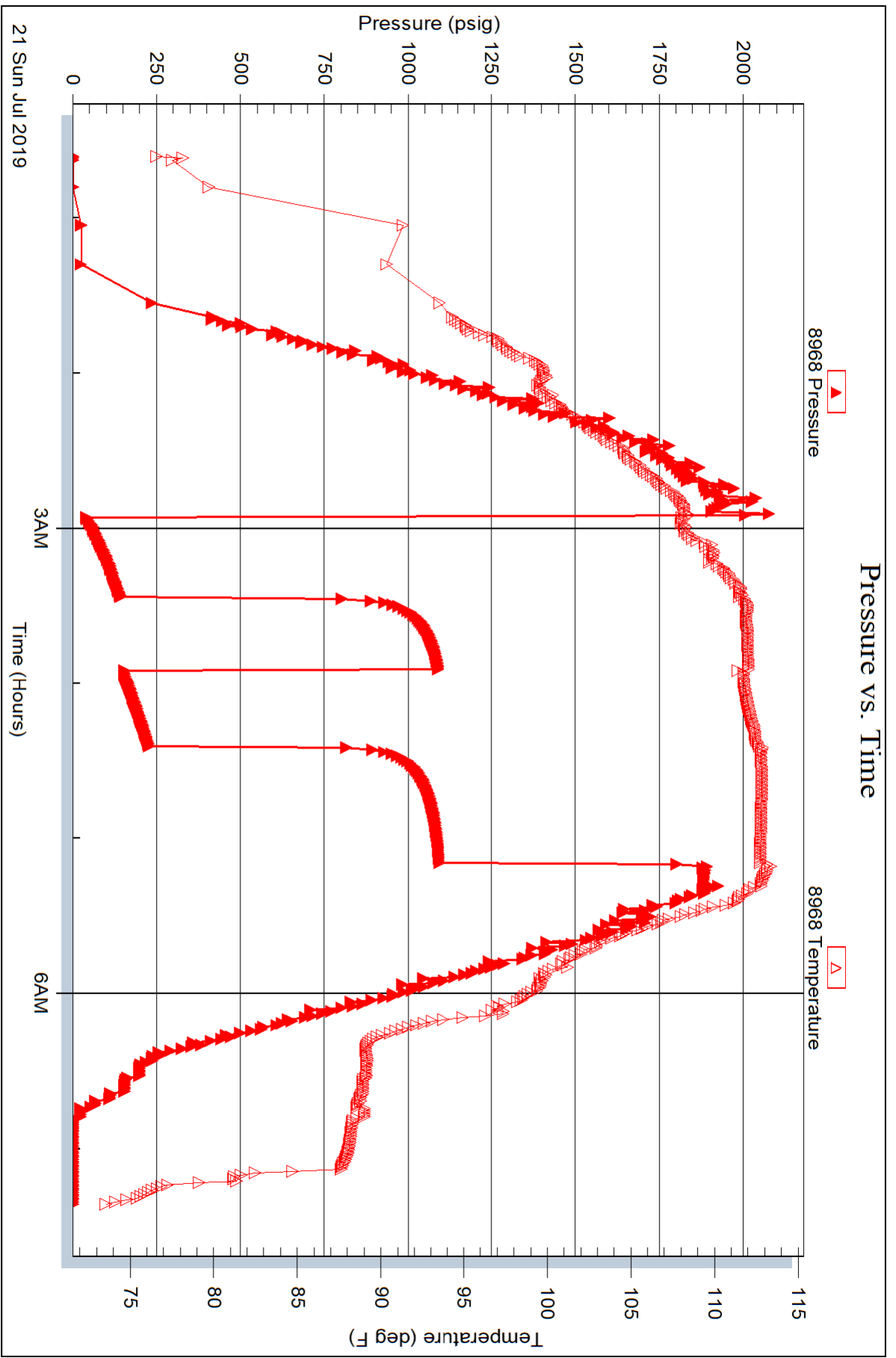


Serial #: 8968

Outside Shakespeare Oil Co./Inc.

Sanders Comm. 1-12

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64839

Printed: 2019.07.22 @ 09:10:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

12-16-35 Wichita Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Lauer

Sanders Comm. 1-12

Job Ticket: 64840 **DST#: 2**

Test Start: 2019.07.22 @ 17:28:15

GENERAL INFORMATION:

Formation: **Lansing D-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:56:15

Time Test Ended: 01:07:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4140.00 ft (KB) To 4185.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4185.00 ft (KB) (TVD)

3170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8521 Inside

Press@RunDepth: 400.20 psig @ 4175.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.22

End Date:

2019.07.23

Last Calib.: 2019.07.23

Start Time: 17:28:15

End Time:

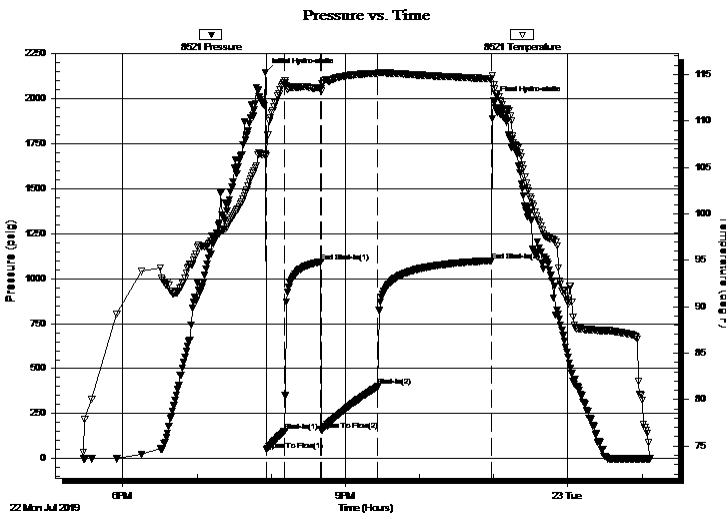
01:07:00

Time On Btm: 2019.07.22 @ 19:55:15

Time Off Btm: 2019.07.22 @ 23:00:00

TEST COMMENT: IF:BOB in 9 min. Built to 22" blow
IS:No return blow
FF:BOB in 8 min. Built to 52" blow
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.09	106.40	Initial Hydro-static
1	48.39	106.28	Open To Flow (1)
16	153.73	114.13	Shut-In(1)
45	1095.27	113.49	End Shut-In(1)
46	157.09	113.23	Open To Flow (2)
91	400.20	115.09	Shut-In(2)
184	1101.12	114.54	End Shut-In(2)
185	1991.09	113.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
201.00	mud 100%m	2.82
186.00	mcw 40%m 60%w	2.61
434.00	mcw 10%m 90%w	6.09
0.00	Oil Skim on top of tool	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.

12-16-35 Wichita Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Lauer

Sanders Comm. 1-12

Job Ticket: 64840 **DST#: 2**

Test Start: 2019.07.22 @ 17:28:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 27000 ppm
Viscosity: 72.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 3000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
201.00	mud 100%m	2.820
186.00	mcw 40%m 60%w	2.609
434.00	mcw 10%m 90%w	6.088
0.00	Oil Skim on top of tool	0.000

Total Length: 821.00 ft Total Volume: 11.517 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW= .405@ 61.3= 27,000 ppm

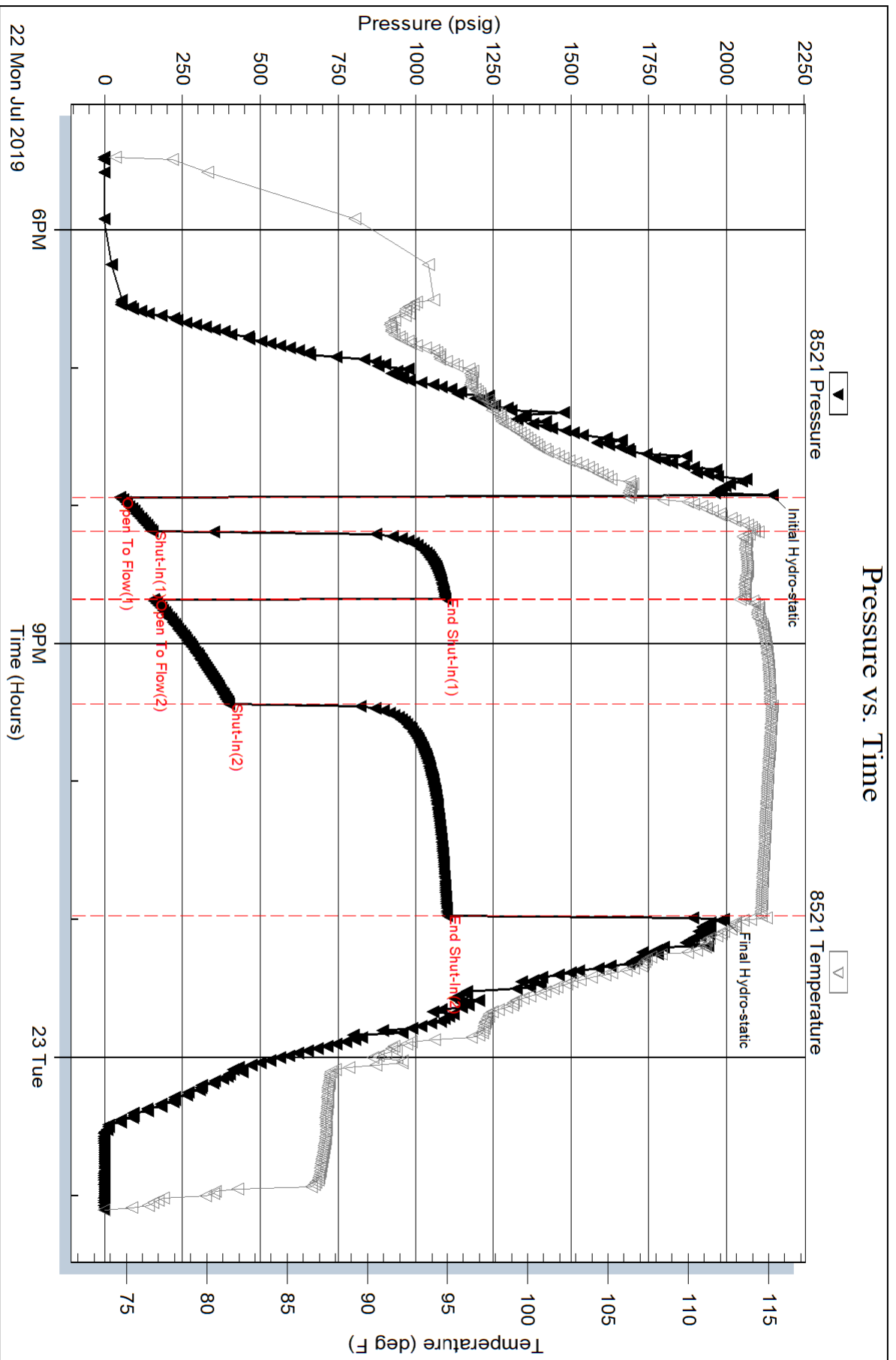
Serial #: 8521

Inside

Shakespeare Oil Co. Inc.

Sanders Comm. 1-12

DST Test Number: 2

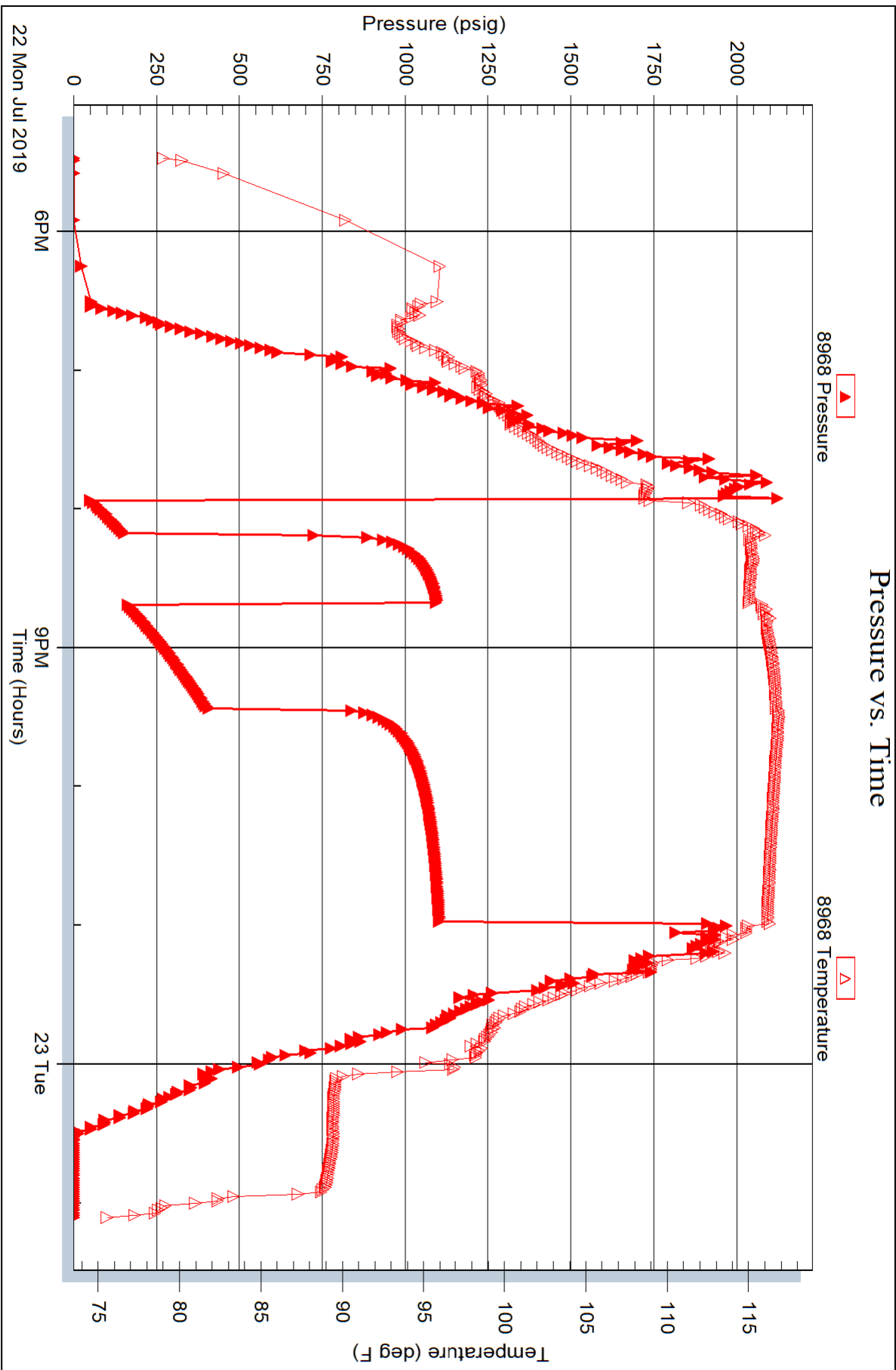


Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Sanders Comm. 1-12

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

12-16-35 Wichita Co KS

202 West Main St
Salem IL 62881

Sanders Comm. 1-12

ATTN: Tim Lauer

Job Ticket: 64841

DST#: 3

Test Start: 2019.07.24 @ 03:00:15

GENERAL INFORMATION:

Formation: **Marm A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:00:30

Time Test Ended: 09:51:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4390.00 ft (KB) To 4480.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

3170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8521 Inside

Press@RunDepth: 150.34 psig @ 4460.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.24

End Date:

2019.07.24

Last Calib.: 2019.07.24

Start Time: 03:00:15

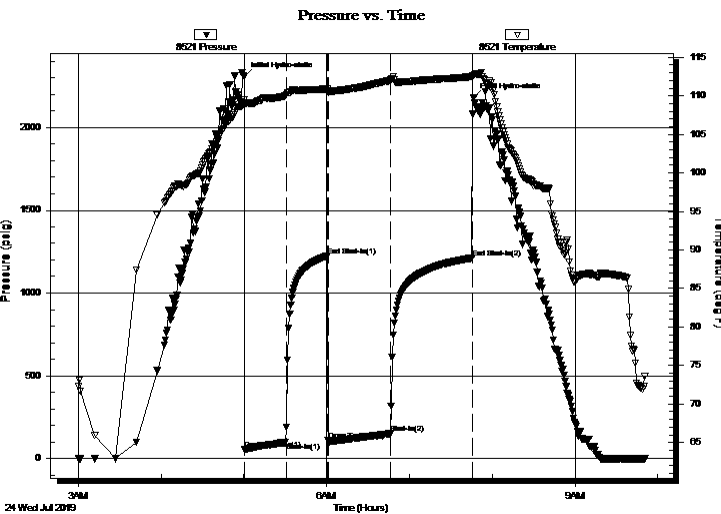
End Time:

09:51:00

Time On Btm: 2019.07.24 @ 05:00:15

Time Off Btm: 2019.07.24 @ 07:46:45

TEST COMMENT: IF: Built to 6 3/4" blow
IS: No return blow
FF: Built to 8 1/2" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2309.70	109.54	Initial Hydro-static
1	54.04	108.75	Open To Flow (1)
31	98.75	110.02	Shut-In(1)
61	1223.38	110.87	End Shut-In(1)
61	112.08	110.46	Open To Flow (2)
106	150.34	111.98	Shut-In(2)
166	1211.67	112.48	End Shut-In(2)
167	2181.96	112.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	free oil 100%o	0.14
35.00	gcom 10%g 40%o 50%m	0.49
124.00	ocw m 10%o 10%w 80%m	1.74
62.00	ocm 2%o 98%m	0.87

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

202 West Main St
Salem IL 62881

ATTN: Tim Lauer

12-16-35 Wichita Co KS

Sanders Comm. 1-12

Job Ticket: 64841 **DST#: 3**

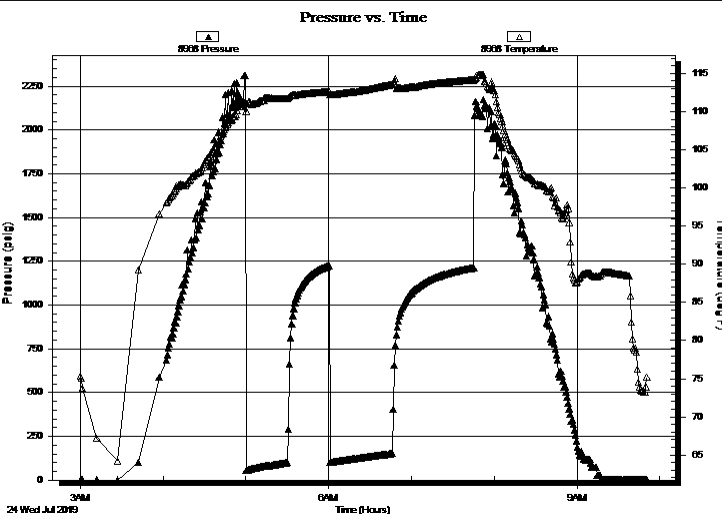
Test Start: 2019.07.24 @ 03:00:15

GENERAL INFORMATION:

Formation: Marm A	
Deviated: No Whipstock:	ft (KB)
Time Tool Opened: 05:00:30	Test Type: Conventional Bottom Hole (Reset)
Time Test Ended: 09:51:00	Tester: Mike Roberts
	Unit No: 81
Interval: 4390.00 ft (KB) To 4480.00 ft (KB) (TVD)	Reference Elevations: 3180.00 ft (KB)
Total Depth: 4480.00 ft (KB) (TVD)	3170.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair
	KB to GR/CF: 10.00 ft

Serial #: 8968	Outside	
Press@RunDepth: psig @	4460.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2019.07.24	End Date: 2019.07.24	Last Calib.: 1899.12.30
Start Time: 03:00:15	End Time: 09:50:45	Time On Btm:
		Time Off Btm:

TEST COMMENT: IF: Built to 6 3/4" blow
IS: No return blow
FF: Built to 8 1/2" blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	free oil 100%o	0.14
35.00	gcom 10%g 40%o 50%m	0.49
124.00	ocw m 10%o 10%w 80%m	1.74
62.00	ocm 2%o 98%m	0.87

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.

12-16-35 Wichita Co KS

202 West Main St
Salem IL 62881

Sanders Comm. 1-12

Job Ticket: 64841

DST#: 3

ATTN: Tim Lauer

Test Start: 2019.07.24 @ 03:00:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

19 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

20000 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	free oil 100%o	0.140
35.00	gcom 10%g 40%o 50%m	0.491
124.00	ocw m 10%o 10%w 80%m	1.739
62.00	ocm 2%o 98%m	0.870

Total Length: 231.00 ft Total Volume: 3.240 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 19@60

RW= .378@ 72.3= 20,000 ppm

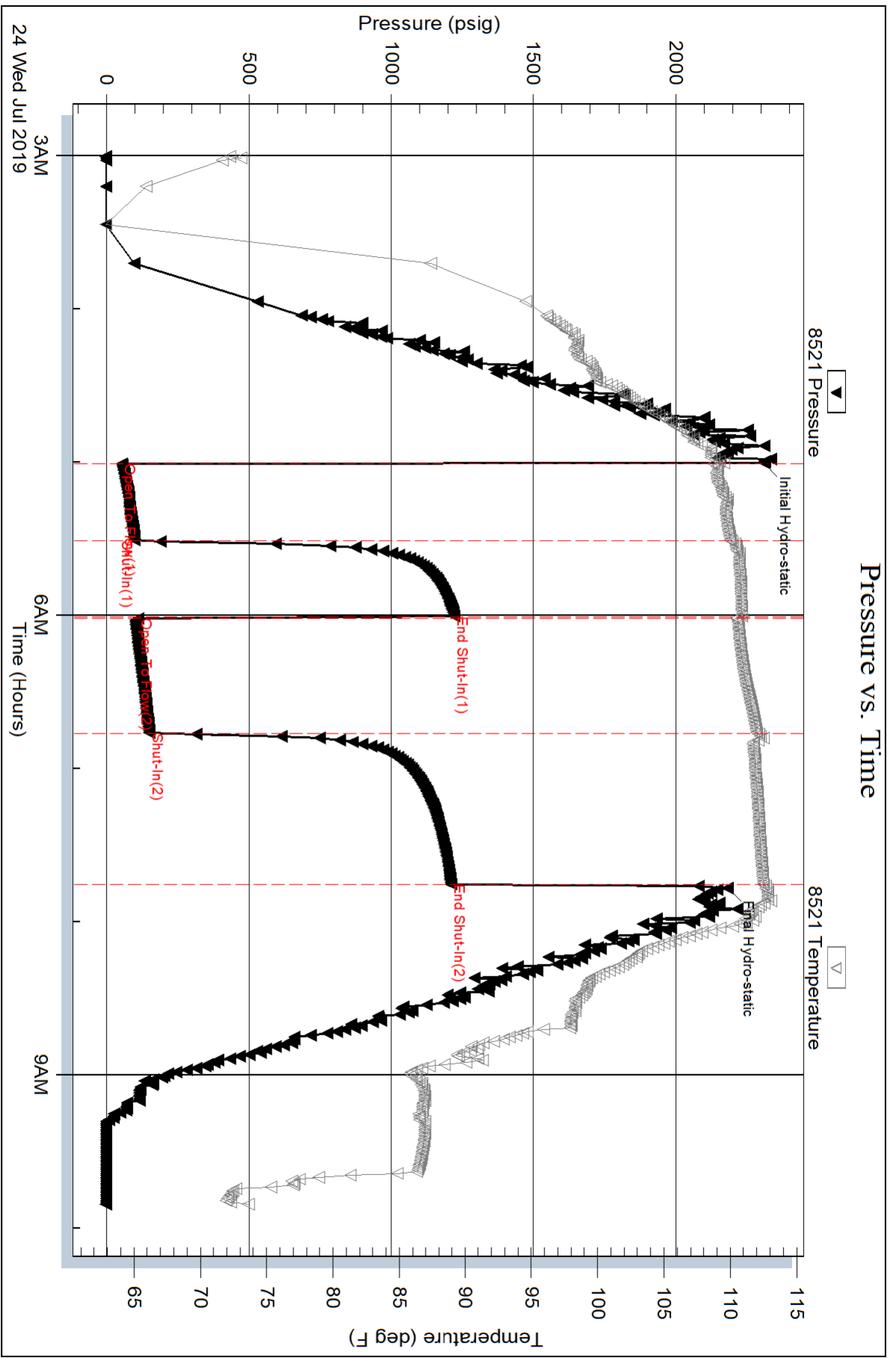
Serial #: 8521

Inside

Shakespeare Oil Co. Inc.

Sanders Comm. 1-12

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64841

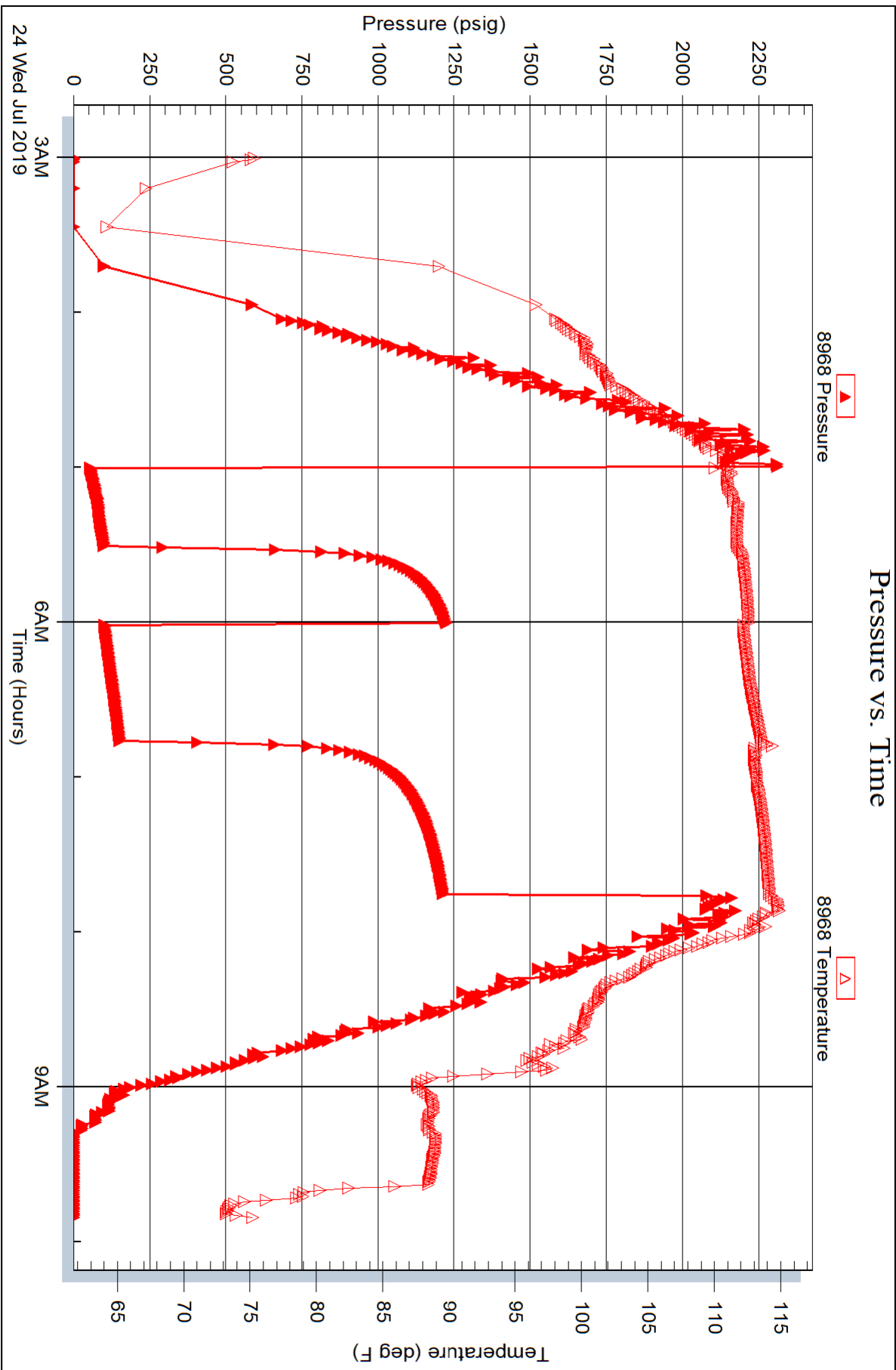
Printed: 2019.07.24 @ 10:57:59

Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Sanders Comm. 1-12

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

12-16-35 Wichita Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Lauer

Sanders Comm. 1-12

Job Ticket: 64842 **DST#: 4**

Test Start: 2019.07.24 @ 22:22:15

GENERAL INFORMATION:

Formation: **Marmaton B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:53:30

Time Test Ended: 05:04:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4484.00 ft (KB) To 4540.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4540.00 ft (KB) (TVD)

3170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8521

Inside

Press@RunDepth: 33.74 psig @ 4520.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.24

End Date:

2019.07.25

Last Calib.:

2019.07.25

Start Time: 22:22:15

End Time:

05:04:45

Time On Btm:

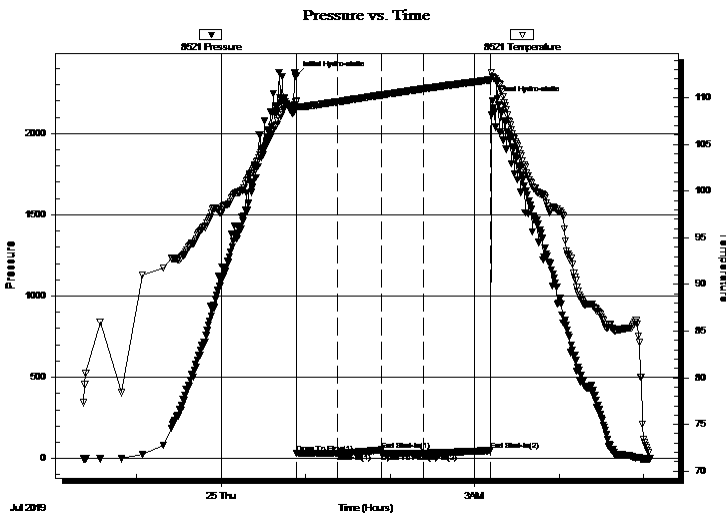
2019.07.25 @ 00:53:15

Time Off Btm:

2019.07.25 @ 03:12:30

TEST COMMENT: IF:1/4" blow died in 7 min.
IS:No return blow
FF:Weak surface blow died in 5 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2354.87	109.64	Initial Hydro-static
1	31.84	108.81	Open To Flow (1)
30	33.46	109.56	Shut-In(1)
61	53.36	110.29	End Shut-In(1)
61	32.38	110.28	Open To Flow (2)
91	33.74	110.94	Shut-In(2)
138	49.35	111.90	End Shut-In(2)
140	2199.75	112.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud w ith oil skim on top 100%m	0.07

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

12-16-35 Wichita Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Lauer

Sanders Comm. 1-12

Job Ticket: 64842 **DST#: 4**

Test Start: 2019.07.24 @ 22:22:15

GENERAL INFORMATION:

Formation: **Marmaton B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:53:30

Time Test Ended: 05:04:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4484.00 ft (KB) To 4540.00 ft (KB) (TVD)

Reference Elevations: 3180.00 ft (KB)

Total Depth: 4540.00 ft (KB) (TVD)

3170.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8968 Outside

Press@RunDepth: psig @ 4520.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.24 End Date: 2019.07.25

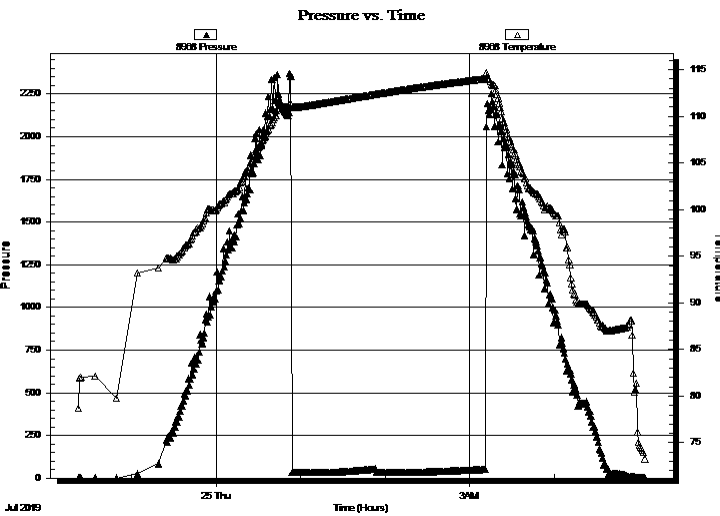
Last Calib.: 2019.07.25

Start Time: 22:22:15 End Time: 05:04:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow died in 7 min.
IS: No return blow
FF: Weak surface blow died in 5 min.
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud with oil skim on top 100% m	0.07

* 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.

12-16-35 Wichita Co KS

202 West Main St
Salem IL
62881
ATTN: Tim Lauer

Sanders Comm. 1-12

Job Ticket: 64842 **DST#: 4**

Test Start: 2019.07.24 @ 22:22:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.72 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w ith oil skim on top 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

