

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	MAZANEC 1-12
Doc ID	1482181

All Electric Logs Run

Dual Compensated Porosity
Dual Induction
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	MAZANEC 1-12
Doc ID	1482181

Tops

Name	Top	Datum
Base Anhydrite	2468	+706
Heebner	4015	-841
Lansing	4062	-888
Muncie Creek	4250	-1076
Stark Shale	4352	-1178
Hushpuckney	4403	-1229
Marmaton	4502	-1328
Pawnee	4578	-1404
L. Cherokee Shale	4658	-1484
Johnson	4716	-1542
Mississippian	4889	-1715

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
10/23/2019	32652

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

INT

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-12	Mazanec	Wichita	Southwind Rig #8	Oil	Development	Surface	Jonathan
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)				1	Job	925.00	925.00
290	D-Air				2	Gallon(s)	42.00	84.00T
325	Standard Cement				175	Sacks	13.50	2,362.50T
278	Calcium Chloride				8	Sack(s)	40.00	320.00T
279	Bentonite Gel				3	Sack(s)	30.00	90.00T
581D	Service Charge Cement				175	Sacks	1.85	323.75
583D	Drayage				686	Ton Miles	0.95	651.70
	Subtotal							5,156.95
	Sales Tax Wichita County						8.50%	242.80
We Appreciate Your Business!							Total	\$5,399.75

RECEIVED
OCT 28 2019

*502-5
DK*

DW



TICKET 032652

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

PAGE 1 OF 1

WELL PROJECT NO. *1-12* COUNTY/PARISH *Wichita* DATE *10/23/19* OWNER
 TICKET TYPE SERVICE SALES CONTRACTOR *Southwind Drilling* RIG NAME/NO. *#8* ORDER NO.
 WELL TYPE *Oil* WELL CATEGORY *New* JOB PURPOSE *Surface* DELIVERED TO *Location* WELL LOCATION
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1			MILEAGE # 113		80	mi	5.00	400.00
5765		1			Amp Charge - Shallow Surface		1	EA	925.00	925.00
290		1			A-Air		2	gal	42.00	84.00
325		2			Standard Cement		175	SKS	13.50	2362.50
278		2			Calcium Chloride		8	SKS	40.00	320.00
279		2			Bentonite Gel		3	SKS	30.00	90.00
581		2			Service Charge Cement		175	SKS	1.85	322.75
583		2			Drayage		68	6 TM	0.25	17.00
REMIT PAYMENT TO: SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560 785-798-2300										SURVEY <input type="checkbox"/> OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? <input type="checkbox"/> WE UNDERSTOOD AND MET YOUR NEEDS? <input type="checkbox"/> OUR SERVICE WAS PERFORMED WITHOUT DELAY? <input type="checkbox"/> WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? <input type="checkbox"/> ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND
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 _____ <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.
REFERRAL LOCATION										DATE _____ ORDER NO. _____ WELL LOCATION _____
PRICE REFERENCE: 575, 5765, 290, 325, 278, 279, 581, 583										UNIT PRICE: 5.00, 925.00, 42.00, 13.50, 40.00, 30.00, 1.85, 0.25 AMOUNT: 400.00, 925.00, 84.00, 2362.50, 320.00, 90.00, 322.75, 17.00 PAGE TOTAL: 5156.25

DATE SIGNED _____ TIME SIGNED _____
 A.M. P.M.
 SWIFT OPERATOR *[Signature]* APPROVAL *[Signature]*
 CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 WITNESSED *[Signature]* TOTAL *5399.75*

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 10/23/19 PAGE NO. 1

CUSTOMER Shakespeare Oil Co WELL NO. 1-12 LEASE Mazanec JOB TYPE Surface TICKET NO. 32652

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2055							On location, Big still Drilling set up trucks.
								265' of 8 5/8" x 23 #
	2150							Break Circulation
	2205							Hook up to Swift
	2210	4	5			200		Start Hyd ahead
		4				200		Start Cmt
		4	42			200		Fin Cmt, start Displacement
		4	15 1/2			200		Fin Displacement
	2230							Shut in Release Truck Cmt Circulated to Surface Washup Rec Keep
	2245							Job Complete
								Thanks Jon, Austin, Kirby

SWIFT



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

Invoice

DATE	INVOICE #
11/2/2019	32862

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

- Acidizing
- Cement
- Tool Rental

INT
P+A

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-12	Mazanec	Wichita	Southwind Rig #8	Oil	Development	PTA	Gideon

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	5.00	400.00
576D-P	Pump Charge - PTA	1	Job	925.00	925.00
328-4	60/40 Pozmix (4% Gel)	300	Sacks	11.00	3,300.00T
276	Flocele	75	Lb(s)	3.00	225.00T
290	D-Air	4	Gallon(s)	42.00	168.00T
581D	Service Charge Cement	300	Sacks	1.85	555.00
583D	Drayage	1,056	Ton Miles	0.95	1,003.20
	Subtotal				6,576.20
	Sales Tax Wichita County			8.50%	313.91

RECEIVED
NOV 1 2019

502-17
DK

We Appreciate Your Business!	Total <i>DW</i> \$6,890.11
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TICKET 032862

CHARGE TO: Shakespeare Oil

ADDRESS

CITY, STATE, ZIP CODE

PAGE 1 OF 1

WELL/PROJECT NO. 1-12	LEASE MAZANEC	COUNTY/PARISH Wichita	STATE KS	CITY Pence	DATE 11-2-2019	OWNER
TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR Southward	RIG NAME/NO. 8	SHIPPED VIA CT	DELIVERED TO Location	ORDER NO.	
WELL TYPE Oil	WELL CATEGORY Development	JOB PURPOSE Plug to Abandon		WELL PERMIT NO.	WELL LOCATION Pence 3-W, 4 1/2-5	
INVOICE INSTRUCTIONS W-1ntc						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT	
		LOC	ACCT										DF
575		1					80	mi			5.00	400.00	
576 P		1					1	job			925.00	925.00	
328-4		1					300	skts			11.00	3300.00	
276		1					76	lbs			3.00	228.00	
290		1					4	gd			42.00	168.00	
581		1					300	skts			1.85	555.00	
583		1					26400	lbs	1056	TM	0.95	1003.20	
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?												<input type="checkbox"/> AGREE <input type="checkbox"/> UNDECIDED <input type="checkbox"/> DISAGREE	PAGE TOTAL 6576.20

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

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: 11-2-2019 7:30 P.M.

TIME SIGNED: 7:30 P.M.

APPROVAL: John Fuchs

SWIFT OPERATOR: John Fuchs

TOTAL: 6890.11

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

APPROVAL: John Fuchs

SWIFT OPERATOR: John Fuchs

Thank You!

JOB LOG

SWIFT Services, Inc.

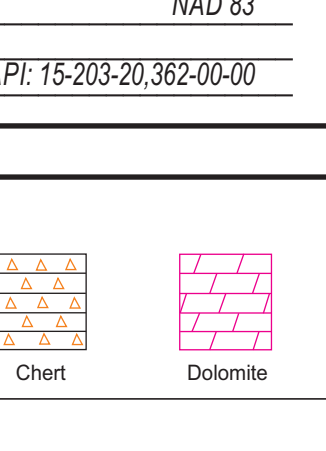
DATE 11-2-2019 PAGE NO. 1

CUSTOMER Shakespeare Oil WELL NO. 1-12 LEASE MAZANEC JOB TYPE Plug to Abandon TICKET NO. 032862

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0500							On Location 4 1/2" DP
	0600	4	13		✓		300	Plug @ 2,470' w/ 50 sks of 60/40 Pozmix 4% gel @ 131 ppg - Displace w/ Mud Pump
	0715	4	21		✓		250	Plug @ 1,470' w/ 80 sks
	0745	4	13		✓			Plug @ 735' w/ 50 sks
	0815	4	13		✓			Plug @ 300' w/ 50 sks
	0830	4	5 1/2		✓			Plug @ 60' w/ 80 sks
	0840	1	8		✓		0	Plug RH w/ 30 sks
	0850	1	5 1/2		✓		0	Plug MH w/ 20 sks
	0900							Wash up Trk #115
	0915							Job Complete
								300 sks of 60/40 Pozmix 4% gel used 1/4" # F10
								Thank You,
								Stacy, Preston, Kurlay

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY	<u>Shakespeare Oil Co., Inc</u>	ELEVATIONS	KB 3174'
LEASE	<u>Mazanec #1-12</u>	KB	3174'
FIELD		DF	
LOCATION	<u>1700' FNL, 335' FEL, NE 1/4</u>	GL	3164'
SEC	<u>12</u>	TWSP	<u>17s RGE 35w</u>
COUNTY	<u>Wichita STATE Kansas</u>	Measurements Are All From	<u>3174 KB</u>
CONTRACTOR	<u>Southwind Drilling Rig #8</u>	CASING	CONDUCTOR SURFACE <u>8 5/8" @ 265'</u> PRODUCTION <u>None</u>
SPUD	<u>10-23-2019</u>	COMP	<u>11-2-2019</u>
RTD	<u>4970'</u>	LTD	<u>4970'</u>
MUD UP	<u>3550'</u>	TYPE MUD	<u>Chemical</u>
SAMPLES SAVED FROM	<u>3700' TO RTD</u>	DRILLING TIME KEPT FROM	<u>3700' TO RTD</u>
SAMPLES EXPANDED FROM	<u>3700' TO RTD</u>	GEOLOGICAL SUPERVISION FROM	<u>3845 RTD</u>
GEOLOGIST ON WELL	<u>Tim J. Lauer</u>	ELECTRICAL SURVEYS	<u>Pioneer-DCL ML PE, Sonic Engr: Ian Mabb</u>
FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG	
B/Anhydrite	2468 (+706)	2472 (+702)	
Heebner	4015 (-841)	4017 (-843)	
Lansing	4062 (-888)	4064 (-890)	
Muncie Creek	4250 (-1076)	4252 (-1078)	
Stark	4352 (-1178)	4353 (-1179)	
Marmaton	4503 (-1329)	4502 (-1328)	
Cherokee Shale	4658 (-1484)	4659 (-1485)	
Johnson Zone	4716 (-1542)	4714 (-1540)	
Mississippian	4891 (-1717)	4891 (-1717)	
Total Depth	4970 (-1796)	4970 (-1796)	



REMARKS
Due to drill stem test results, an log evaluation, operator elected to plug and abandon the location without any further testing.

Respectfully submitted,
Tim J. Lauer
Tim J. Lauer
11/3/2019

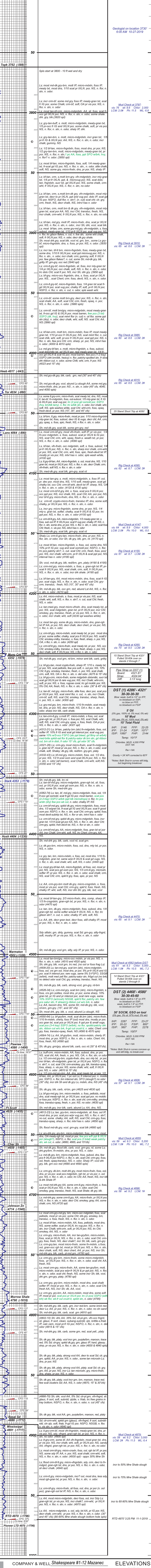
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Long: 101.129214580
NAD 83
API: 15-203-20,362-00-00

LEGEND

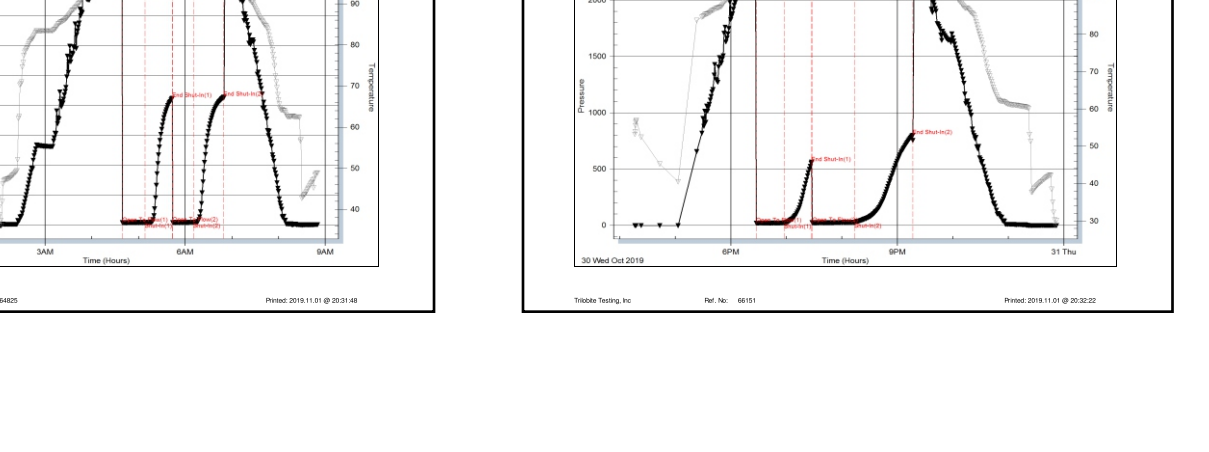


DEPTH (ft)	SAMPLE DESCRIPTION	REMARKS
2400		SPUD 4:45 PM 10-23-2019 RTD 3:25 PM 11-2-2019
2400		"BIT RECORD" 1) VENT H29H (Nwe) Under Surface to 4970' RTD
2400		"VERTICAL SURVEYS" 1/2" @ 265' 3/4" @ 3908' 1" @ 4321' 1" @ 4580' 1" @ 4970'
2400		"DAILY ACTIVITY REPORT" 10-23-2019 - 7:00 AM MI, RU, Prep to Spud 10-24-2019 - 7:00 AM Drig @ 280' set 6-3/8" @ 265' 10-25-2019 - 7:00 AM Drig @ 2135' 10-26-2019 - 7:00 AM Drig @ 3160' 10-27-2019 - 7:00 AM Drig @ 3755' 10-28-2019 - 7:00 AM Drig @ 4165' 10-29-2019 - 7:00 AM PTD @ 4321' COOH with DST (1) 10-30-2019 - 7:00 AM CFS @ 4550' 10-31-2019 - 7:00 AM Drig @ 4618' 11-1-2019 - 7:00 AM CFS @ 4870' 11-2-2019 - 7:00 AM Ran OH Pioneer Elogs Plug and Abd loc.
2400		Call Point 3500' 9:40 PM 10-26-2019
2400		Geologist on location 3730' 6:00 AM 10-27-2019
2400		Mud Check at 3797': vis: 76 wt: 8.6 Chlor: 2,000 LCM: 2.08 Ph: 11.5 WL: 6.8
2400		Rig Check at 3910: vis: 65 wt: 8.6 Chlor: 2.08 LCM: 2#
2400		Rig Check at 3985: vis: 60 wt: 8.6 Chlor: 2.08 LCM: 2#
2400		Rig Check at 4095: vis: 62 wt: 8.7 Chlor: 2.08 LCM: 2#
2400		Mud Check at 4147': vis: 64 wt: 8.9 Chlor: 4,000 LCM: 2.08 Ph: 11.0 WL: 6.0
2400		Rig Check at 4155: vis: 61 wt: 8.7 Chlor: 2.08 LCM: 2#
2400		Mud Check at 4147': vis: 64 wt: 8.9 Chlor: 4,000 LCM: 2.08 Ph: 11.0 WL: 6.0
2400		Rig Check at 4265: vis: 57 wt: 9.0 Chlor: 2.08 LCM: 2#
2400		15 Stand Short Trip at 4321' Pulled 30-60g over on stands 2 through 7
2400		DST (1) 4286' - 4321' 30-30-30 Blow week, built to 18" on IFP no blowback on ISP no blow on FSP no blowback on FSIP
2400		9" Oil (0% gas, 100% oil, 0% mud, 0% wt) 10' Mud (0% gas, 0% oil, 100% mud, 0% wt) 15' Total Fluid IHP: 2146 FFP: 22-25 IFP: 21-24 FSP: 10711 ISIP: 1060' FHP: 2144 Temp: 101°F Chlorides: MUD: 4,000 PPM DST: NA Rw = NA Gravity = 24° API curves to 60°F Notes: Both Shu-in curves still kldg but beginning breakover
2400		Rig Check at 4470: vis: 65 wt: 9.1 Chlor: 2.08 LCM: 2#
2400		Mud Check at 4562 before DST: vis: 61 wt: 8.9 Chlor: 4,000 LCM: 1.08 Ph: 10.5 WL: 7.2
2400		14 Stand Short Trip at 4321' Pulled 30-60g over on stands 2 through 7
2400		DST (2) 4468' - 4580' 30-30-45-90 Blow week, built to 18" on IFP no blowback on ISP no blow on FSP no blowback on FSIP
2400		30' SOCCM, GSO on tool (0% gas, 3% oil, 97% mud, 0% wt) IHP: 2287 FFP: 23-27 IFP: 20-22 FSP: 800' ISIP: 560' FHP: 2278 Temp: 100°F Chlorides: MUD: 5,000 PPM DST: NA Rw = NA Notes: Both Shu-in curves concave up and still kldg, no break-over
2400		Rig Check at 4606: vis: 57 wt: 9.1 Chlor: 2.08 LCM: 2#
2400		Mud Check at 4655: vis: 59 wt: 9.3 Chlor: 5,200 LCM: 1.08 Ph: 10.0 WL: 7.2
2400		Rig Check at 4696: vis: 58 wt: 9.2 Chlor: 2.08 LCM: 1#
2400		RTD 4970' 3:25 PM 11-1-2019

Drilling Time skip 2500' to 3700'



COMPANY & WELL	<u>Shakespeare #1-12 Mazanec</u>	ELEVATIONS	KB 3174'
LOCATION	<u>1700' FNL, 335' FEL, NE 1/4</u>	KB	3174'
SEC	<u>12</u>	TWSP	<u>17s RGE 35w</u>
COUNTY	<u>Wichita STATE Kansas</u>	GL	3164'





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

12 17s 35w Wichita, Ks

202 W Main St.
Salem, IL 62881

Manzanec 1-12

Job Ticket: 64825

DST#: 1

ATTN: Tim Lauer

Test Start: 2019.10.28 @ 23:48:00

GENERAL INFORMATION:

Formation: **LKC- I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:39:30

Time Test Ended: 08:49:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: 4286.00 ft (KB) To 4321.00 ft (KB) (TVD)

Reference Elevations: 3174.00 ft (KB)

Total Depth: 4321.00 ft (KB) (TVD)

3164.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 25.02 psig @ 4287.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.10.28

End Date:

2019.10.29

Last Calib.:

2019.10.29

Start Time: 23:48:05

End Time:

08:49:45

Time On Btm:

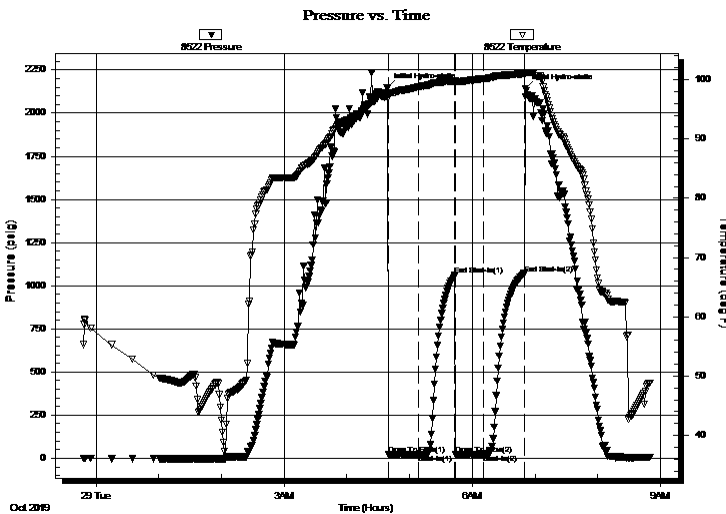
2019.10.29 @ 04:38:30

Time Off Btm:

2019.10.29 @ 06:51:00

TEST COMMENT: 30- IF: 1/2" blow .
30- IS: No return.
30- FF: Surface blow .
30- FSI: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.96	97.85	Initial Hydro-static
1	20.84	97.03	Open To Flow (1)
30	23.66	98.81	Shut-In(1)
65	1059.68	99.79	End Shut-In(1)
66	22.49	99.41	Open To Flow (2)
92	25.02	100.16	Shut-In(2)
131	1070.77	101.01	End Shut-In(2)
133	2144.13	101.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m	0.14
5.00	oil 100o	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co, Inc

12 17s 35w Wichita, Ks

202 W Main St.
Salem, IL 62881

Manzanec 1-12

Job Ticket: 64825

DST#: 1

ATTN: Tim Lauer

Test Start: 2019.10.28 @ 23:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 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 bbf
10.00	Mud 100m	0.140
5.00	oil 100o	0.070

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:

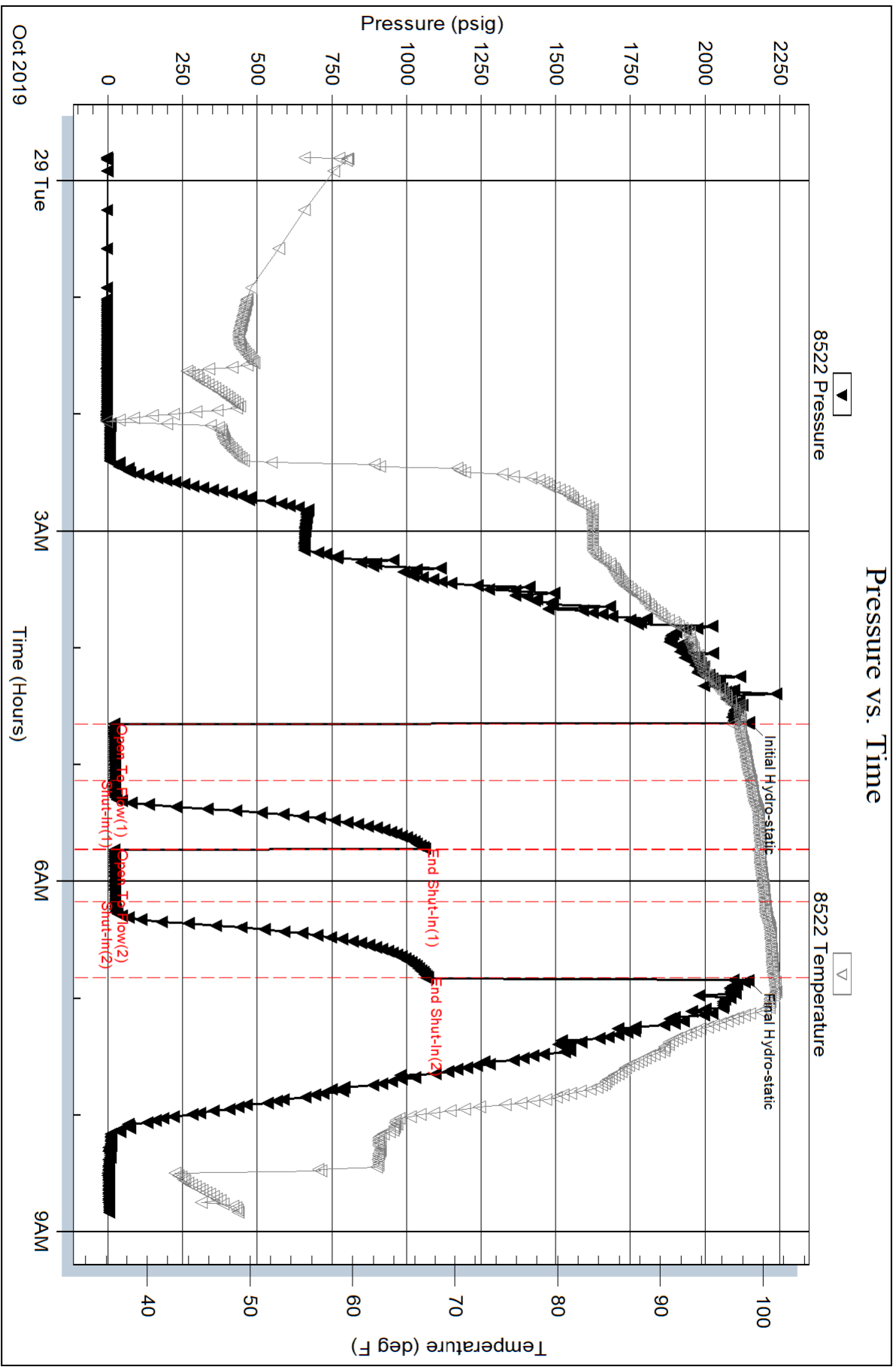
Serial #: 8522

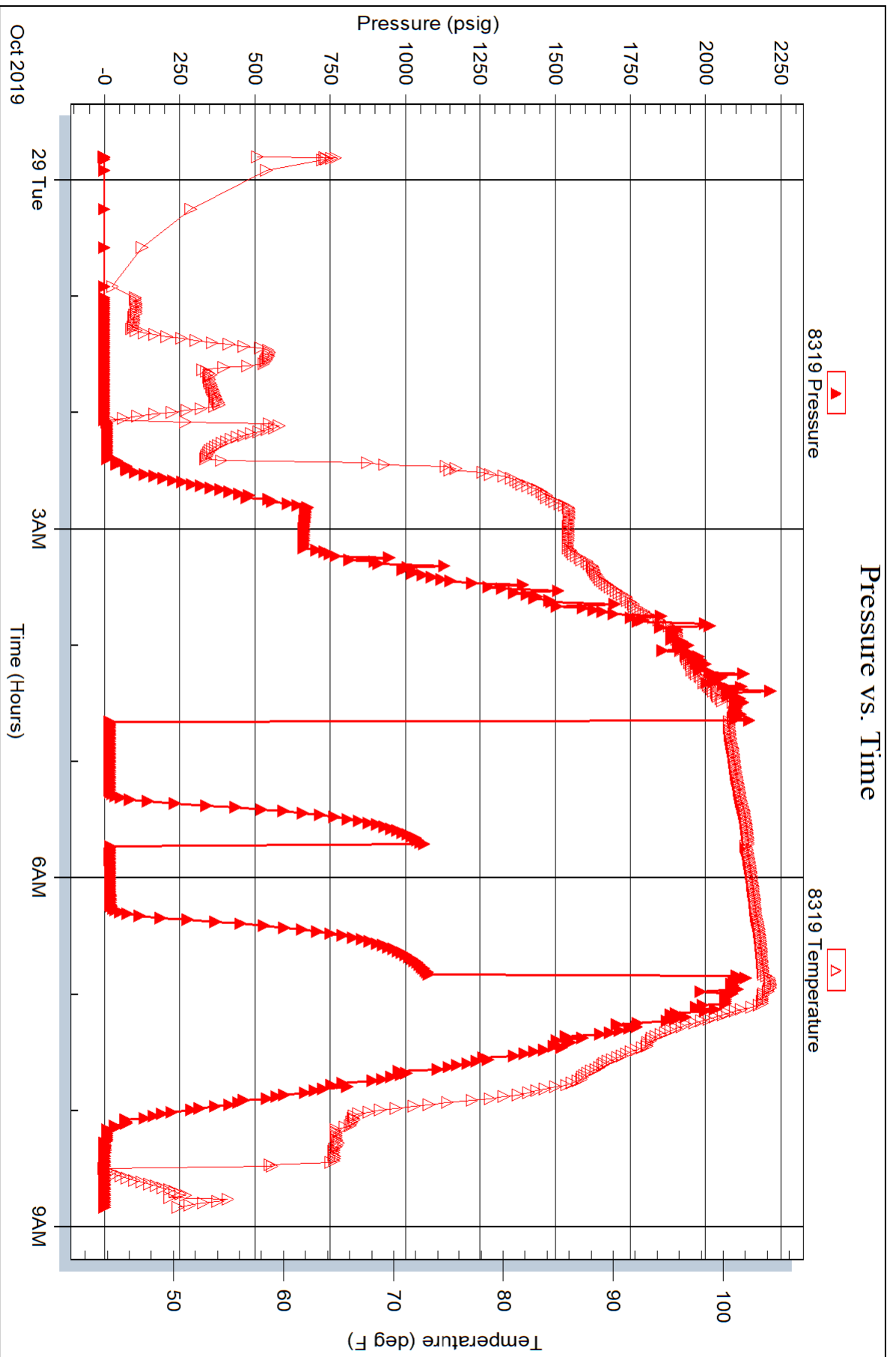
Inside

Shakespeare Oil Co, Inc

Manzanac 1-12

DST Test Number: 1







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

12 17s 35w Wichita, Ks

202 W Main St.
Salem, IL 62881

Mazanec 1-12

Job Ticket: 66151

DST#: 2

ATTN: Tim Lauer

Test Start: 2019.10.30 @ 16:16:00

GENERAL INFORMATION:

Formation: **Marmaton A-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:27:30

Time Test Ended: 23:52:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4468.00 ft (KB) To 4580.00 ft (KB) (TVD)

Reference Elevations: 3174.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

3164.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 26.96 psig @ 4469.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.10.30

End Date:

2019.10.30

Last Calib.: 2019.10.30

Start Time: 16:16:05

End Time:

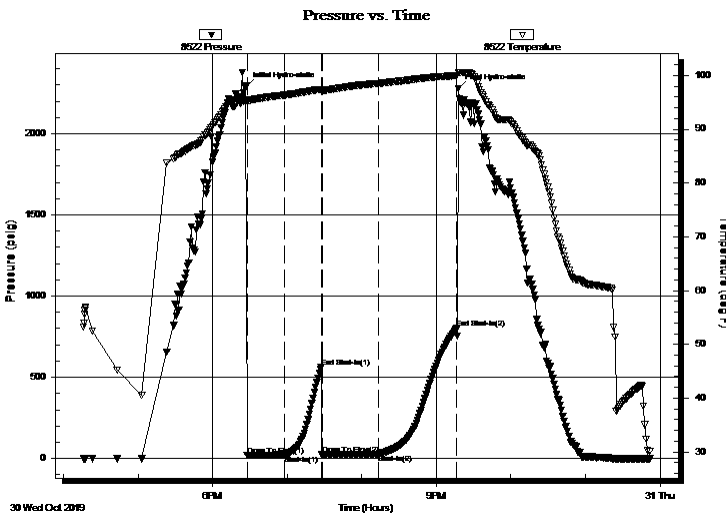
23:51:59

Time On Btm: 2019.10.30 @ 18:26:45

Time Off Btm: 2019.10.30 @ 21:17:45

TEST COMMENT: 30- IF: 1.8" blow .
30- IS: No return.
45- FF: 1.9" blow
60- FSI: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2287.05	95.38	Initial Hydro-static
1	19.52	95.09	Open To Flow (1)
31	21.87	96.35	Shut-In(1)
61	560.33	97.42	End Shut-In(1)
62	23.46	97.15	Open To Flow (2)
107	26.96	98.52	Shut-In(2)
170	799.95	99.98	End Shut-In(2)
171	2278.35	100.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	socm 3o 97m	0.42

* 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 17s 35w Wichita, Ks

202 W Main St.
Salem, IL 62881

Mazanec 1-12

Job Ticket: 66151

DST#: 2

ATTN: Tim Lauer

Test Start: 2019.10.30 @ 16:16:00

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: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	socm 3o 97m	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

