

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 Recompletion Date _____ 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	CL COMMUNITY 1-30
Doc ID	1468316

All Electric Logs Run

Dual Induction
Dual Compensated Porosity
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	CL COMMUNITY 1-30
Doc ID	1468316

Tops

Name	Top	Datum
Base Anhydrite	2323	+608
Heebner	3893	-962
Lansing	3935	-1004
Muncie Creek	4109	-1178
Stark Shale	4209	-1278
Hushpuckney	4252	-1321
Marmaton	4333	-1402
Pawnee	4417	-1486
L. Cherokee Shale	4496	-1565
Johnson	4537	-1606
Mississippian	4648	-1717

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
7/13/2019	32239

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

- Acidizing
- Cement
- Tool Rental

INT

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	1-30	CL Community	Scott	Southwind Rig #8	Oil	Development	Surface Pipe	Gideon

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	70	Miles	5.00	350.00
576D-S	Pump Charge - Shallow Surface (< 500 Ft.)	1	Job	925.00	925.00
325	Standard Cement	175	Sacks	13.50	2,362.50T
276	Flocele	50	Lb(s)	3.00	150.00T
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	602	Ton Miles	0.95	571.90
	Subtotal				5,093.15
	Sales Tax Scott County			8.50%	248.41

*502-5
DH*

RECEIVED
JUL 19 2019

We Appreciate Your Business!

Total

\$5,341.56

DW



TICKET 032239

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

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City, KS WELLS/PROJECT NO. 1-30 LEASE Cl Community COUNTY/PARISH Scott STATE KS CITY Scott City DATE 7-13-19 OWNER _____
 2. _____ TICKET TYPE SERVICE CONTRACTOR Southwind RIG NAME/NO. #8 SHIPPED VIA CT DELIVERED TO Location ORDER NO. _____
 3. _____ WELLS TYPE Oil WELL CATEGORY Development JOB PURPOSE Surface Pipe WELL PERMIT NO. _____
 4. _____ REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT	
		LOC	ACCT									DF
575					Trk #112			70	mi ²	5.00	350.00	
5765					Pump Charge - Surface			1	job	925.00	925.00	
325					Standard CMT			175	skts	13.00	2362.50	
276					Floccle			50	lbs	3.00	150.00	
278					Calcium Chloride			8	skts	40.00	320.00	
279					Bentonite Gel			3	skts	30.00	90.00	
581					CMT Service Charge			175	skts	1.85	323.75	
33					Drillage			17,200	lbs	0.95	571.90	
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.					SURVEY		AGREE	UNDECIDED	DISAGREE	PAGE TOTAL		
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.					OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					5093.15		
DATE SIGNED <u>7-13-19</u> TIME SIGNED <u>1:00</u> <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.					OUR SERVICE WAS PERFORMED WITHOUT DELAY?					Swift		
CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.					OUR SERVICE WAS PERFORMED WITHOUT DELAY?					8.50		
SWIFT OPERATOR <u>Wadean Furdy</u> APPROVAL <u>Wery</u>					OUR SERVICE WAS PERFORMED WITHOUT DELAY?					TOTAL 534.50		

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

SWIFT OPERATOR Wadean Furdy APPROVAL Wery Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 7-13-19 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Shakespeare Oil		1-30		CL Community		Surface Pipe		032239	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1300							On Location 8 5/8" 23lb/ft	
								RTD: 266'	
	1330							Start 8 5/8" Casing in hole	
	1420							Break Circulation	
	1430	3 1/2	5		✓	250		Pump 5 bbl H2O Spacer	
	1436	4 1/2	43		✓	200		Mix 175 sks of Standard CMT w/ 2% gel, 3% CC @ 14.7 ppg	
	1450	3 1/2	0		✓	250		Start Displacement	
		3 1/2	10		✓	250		- Circulate CMT to Surface	
	1500	0	16 1/3		✓	300		KO Pump * Shut in *	
								Release Pressure	
								Wash up Trk #112	
	1515							Job Complete	
								175 sks of Standard 2% gel 3% CC used * 15 sks to the Pit *	
								Thank You	
								Gideon Preston Kirby	

SWIFT



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

Invoice

DATE	INVOICE #
7/22/2019	32298

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	#1-30	CL Community	Scott	Southwind Rig #8	Oil	Development	PTA	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				70	Miles	5.00	350.00
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 <i>Plugging</i>				75	Lb(s)	3.00	225.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement				300	Sacks	1.85	555.00
583D	Drayage				878.85	Ton Miles	0.95	834.91
	Subtotal							6,273.91
	Sales Tax Scott County						8.50%	306.77
				<i>INT</i>				
				<i>502-17</i>				
							RECEIVED	
							JUL 29 2019	
We Appreciate Your Business!							Total	\$6,580.68

DW



TICKET 032298

PAGE 1 OF 1

CHARGE TO: Shales place
 ADDRESS:
 CITY, STATE, ZIP CODE:

WELL/PROJECT NO. 7-30 LEASE Ch Community COUNTY/PARISH Scott CITY Scott City DATE 22/01/19 OWNER
 TICKET TYPE SERVICE SALES CONTRACTOR 8 RIG NAME/NO. 8 SHIPPED VIA et DELIVERED TO location ORDER NO.
 WELL TYPE Oil WELL CATEGORY PTA JOB PURPOSE Play to Aberdeen WELL PERMIT NO. WELL LOCATION 30-16-32
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
815		1			70	mi			5.00	350.00
5767		1		MILEAGE <u>70x14</u>	1	ea			925.00	925.00
328-4		1		Pump Charge <u>PTA</u>	300	sq			1.00	300.00
270		1		60/40 poz mix (90/100)	75	lb			42.00	225.00
290		1		Flare	2	gal			42.00	84.00
581		1		D-Air	300	sk			1.85	555.00
583		1		service charge	2510	lb	878.85	TW	0.25	854.91
				Drillage						

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.

DATE SIGNED: 2/15 TIME SIGNED: 1:00 P.M.

SWIFT OPERATOR: [Signature] APPROVAL: [Signature]

PAGE TOTAL: 6273.91

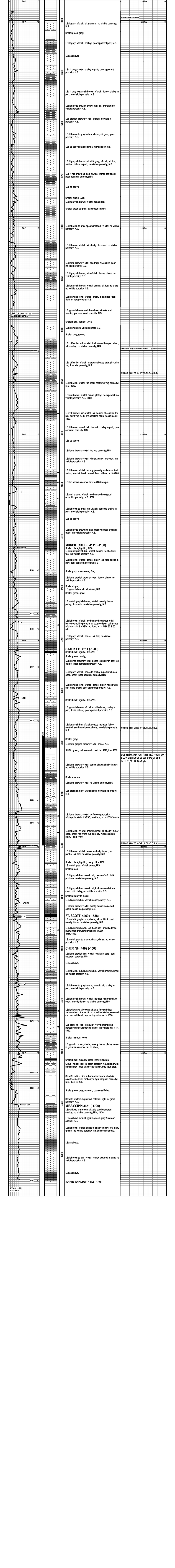
TOTAL: 6580.68

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

Thank You!

CUSTOMER Shakespeare WELL NO. 1-30 LEASE CL Community JOB TYPE Plug to Abandon TICKET NO. 32298

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								300sk 60/40 po2 mix (4% gel) w/ 1/4" flake 4 1/2" drill pipe 2325' 50sk 1570' 80sk 750 50sk RH 30 MH 20 300 50sk 60 20sk
	0230							on loc TRK 114
	0310	3 1/2	13			100		fill hole w/ mud - pipe to 2325' 1st plug - 50sk - Displace w/ mud pull to 1570'
	04105 0435	3 1/2	21			100		2nd plug - mix 80sk - Displace w/ H ₂ O pull to 750'
	0450	3 1/2	13			200		3rd mix 50sk Displace w/ 160
	0500	3 1/2	13			100		Pull to 300' 4th mix 50sk
	0605	2	5			Ø		Pull RH & MH 5th mix 20sk
	0611		7 5					RH - 30sk MH - 20sk
	0625							Wash truck Rack up 300sk total
	0655							job complete Thanks Blaine Platt 151R



3600
3650
3700
3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
4250
4300
4350
4400
4450
4500
4550
4600
4650
4700
4725

LS: lt gray; vf-xtal; sli. granular; no visible porosity; N.S.
Shale: green, gray;
LS: lt gray; vf-xtal; chalky; poor apparent por.; N.S.
LS: as above;
LS: lt gray; vf-xtal; chalky in part; poor apparent porosity; N.S.
LS: lt gray to grayish-brown; vf-xtal; dense; chalky in part; no visible porosity; N.S.
LS: lt gray to grayish-brn; vf-xtal; sli. granular; no visible porosity; N.S.
LS: grayish-brown; vf-xtal; platy; no visible porosity; N.S.
LS: lt brown to grayish brn; vf-xtal; sli. gran; poor porosity; N.S.
LS: as above but seemingly more shaley; N.S.
LS: lt grayish brn mixed w/dk gray; vf-xtal; sli. fos; shaley; peletal in part; no visible porosity; N.S.
LS: lt-md brown; vf-xtal; sli. fos; minor soft chalk; poor apparent porosity; N.S.
LS: as above.
Shale: black; 3790.
LS: lt grayish brown; vf-xtal; dense; N.S.
Shale: green to gray; calcareous in part;
LS: lt brown to gray, appears mottled; vf-xtal; no visible porosity; N.S.
LS: lt brown; vf-xtal; sli. chalky; trc chert; no visible porosity; N.S.
LS: lt-md brown; vf-xtal; fos-frag; sli. chalky; poor int-frag porosity; N.S.
LS: lt grayish brown; mic-vf xtal; dense, platy; no visible porosity; N.S.
LS: lt grayish brown; vf-xtal; dense; sli. fos; trc chert; no visible porosity; N.S.
LS: grayish brown; vf-xtal; chalky in part; fos-frag; tight int frag porosity; N.S.
LS: grayish brown w/dk brn shaley streaks and specks; poor apparent porosity; N.S.
Shale: black; lignitic; 3910.
LS: grayish-brn; vf-xtal; dense; N.S.
Shale: gray, green;
LS: off white; mic-vf xtal; includes white opa. chert; sli. chalky; no visible porosity; N.S.
LS: off white; vf-xtal; cherty as above; tight pin-point vug & int xtal porosity; N.S.
LS: lt brown; vf xtal; trc spar; scattered vug porosity; N.S. 3970.
LS: md-brown; vf-xtal; dense, platy; trc is peletal; no visible porosity; N.S., 3980.
LS: v-lt brown; mic-vf xtal; sli. oolitic; sli. chalky; trc pin-point vug w/ dk-brn speckled stain; no visible oil; 4000.
LS: lt brown; mic-vf xtal; dense to chalky in part; poor apparent porosity; N.S.
LS: as above.
LS: lt-md brown; vf-xtal; trc vug porosity; N.S.
LS: lt-md brown; vf-xtal; dense, platy; trc chert; no visible porosity; N.S.
LS: lt brown; vf-xtal; trc vug porosity w/ dark spotted stains; no visible oil; v-weak fluor. at best; <1% 4060.
LS: trc shows as above thru to 4080 sample.
LS: md brown; vf-xtal; medium oolite w/good oomoldic porosity; N.S., 4080.
LS: lt brown to gray; mic-vf xtal; dense to chalky in part; no visible porosity; N.S.
LS: as above;
LS: lt gray to brown; vf-xtal; mostly dense; trc shell frags; no visible porosity; N.S.
MUNCIE CREEK 4111 (-1180)
Shale: black; lignitic; 4130.
LS: md-dk grayish-brn; vf-xtal; dense; trc chert; sli. fos; no visible porosity; N.S.
LS: lt brown; vf-xtal; dense, platy; sli. fos; oolitic in part; poor apparent porosity; N.S.
Shale: gray; calcareous; fos;
LS: lt-md grayish brown; vf-xtal; dense, platy; no visible porosity; N.S.
Shale: dk gray;
LS: grayish-brn; vf xtal; dense; N.S.
Shale: green, gray;
LS: md-dk grayish-brown; vf-xtal; mostly dense, platy; trc chalk; no visible porosity; N.S.
LS: lt brown; vf-xtal; medium oolite w/poor to fair barren oomoldic porosity w/ scattered pin-point vugs w/black stain & VSSO; no fluor; <1% 4190 30 & 60 min.
LS: lt gray; vf-xtal; dense; sli. fos; no visible porosity; N.S.
STARK SH 4211 (-1280)
Shale: black; lignitic; trc 4220
Shale: green; marly;
LS: gray to brown; vf-xtal; dense to chalky in part; sli. oolitic; poor oomoldic porosity; N.S.
LS: lt gray; vf-xtal; dense to chalky in part; includes opa. chert; poor apparent porosity; N.S.
LS: grayish brown; vf-xtal; dense, platy; mixed with soft white chalk; poor apparent porosity; N.S.
Shale: black; lignitic; trc 4270.
LS: grayish-brown; vf-xtal; mostly dense; chalky in part; trc is peletal; poor apparent porosity; N.S.
LS: lt grayish-brn; vf-xtal; dense; includes flakey, mottled, semi-translucent cherts; no visible porosity; N.S.
Shale: gray;
LS: lt-md grayish brown; vf-xtal; dense; N.S.
SiltSt: green; calcareous in part; trc 4320, incr 4330.
LS: lt-md brown; vf-xtal; dense, platy; chalky in part; no visible porosity; N.S.
Shale: maroon;
LS: lt-md brown; vf-xtal; no visible porosity; N.S.
LS: greenish-gray; vf-xtal; silty; no visible porosity; N.S.
LS: lt-md brown; vf-xtal; trc fine vug porosity w/pin-point stain & VSSO; no fluor; <1% 4378-30 min.
LS: lt brown; vf-xtal; mostly dense; sli chalky; minor opa. chert; trc v-line vug porosity w/speckled dk stain, 1 chip 4400.
LS: lt brown; vf-xtal; dense to chalky in part; trc pyritic; sli. fos; no visible porosity; N.S.
Shale: black; lignitic; many chips 4430.
LS: md-dk gray; vf-xtal; dense; N.S.
Shale: green;
LS: lt grayish-brn; mic-vf xtal; dense w/soft chalk portions; no visible porosity; N.S.
LS: lt grayish-brn; mic-vf xtal; includes semi-trans chert; sli. chalky; no visible porosity; N.S.
Shale: dk gray to black;
LS: dk grayish brn; vf-xtal; dense; cherty; N.S.
LS: lt-md brown; vf-xtal; mostly dense; some soft chalk; no visible porosity; N.S.
FT. SCOTT 4469 (-1538)
LS: md -dk grayish brn; vf-xtal; sli. oolitic in part; mostly dense; no visible porosity; N.S.
LS: dk grayish-brown; oolitic in part; mostly dense but w/inter granular portions w/ VSSO. <<1% 4500.
LS: md-dk gray to brown; vf-xtal; dense; no visible porosity; N.S.
CHER. SH 4499 (-1568)
LS: lt-md grayish-brn; vf-xtal; chalky in part; poor apparent porosity; N.S.
LS: as above.
LS: lt brown, md-dk grayish brn; vf-xtal; mostly dense; no visible porosity; N.S.
LS: lt brown to grayish-brn; mic-vf xtal; chalky in part; no visible porosity; N.S.
LS: lt grayish brown; vf-xtal; includes minor smokey chert; mostly dense; no visible porosity; N.S.
LS: lt-dk grays & browns; vf-xtal; fine sulfides; various chert; traces dk brn speckled stains, some will cut; no visible oil, v-poor dry stains <<1% 4570.
LS: gray; vf-x xtal; granular; very tight int gran. porosity w/black speckled stains; no visible oil; <1% 4590.
Shale: maroon; 4600.
LS: gray to brown; vf-xtal; mostly dense, platy; some is granular as above but no show;
Shale: black; mixed w/ black lime; 4620 stop.
SiltSt: white; tight int grain porosity; N.S.; along with some sandy lime; trace 4620-60 min. thru 4635-stop.
SandSt: white; fine sub-rounded quartz which is calcite cemented; probably v-tight int grain porosity; N.S., 4635-30 min.
Shale: green, gray, maroon; coarse sulfides;
SandSt: white; f-m grained; calcitic; tight int grain porosity; N.S.
MISSISSIPPI 4651 (-1720)
LS: white to v-lt brown; vf-xtal; sandy textured; chalky; no visible porosity; N.S., 4670.
LS: as above w/much pyritic, green, gray & maroon shales; N.S.
LS: lt brown; vf-xtal; dense to chalky in part; few if any grains; no visible porosity; N.S.; shales as above.
LS: as above.
LS: lt brown to tan; vf-xtal; sandy textured in part; no visible porosity; N.S.
LS: as above.
ROTARY TOTAL DEPTH 4725 (-1794)

MUD UP 3497 TO 3526.
Hot-Wire 100
PERFORM 35 STAND WIPER TRIP AT 3920.
MUD-CO: 3942: VIS 53, WT 8.9, FIL 6.4, CHL 2k
Hot-Wire 100
MUD-CO: 4286: VIS 57, WT 9.0, FIL 7.2, CHL 2k
DST #1: MARMATON: 4294-4400 (106): WK BLOW DIED; 30-30-30-30; 5' MUD; SIP: 131-115; FP: 28-28, 29-29.
MUD-CO: 4400: VIS 63, WT 9.0, FIL 8.0, CHL 4k
Hot-Wire 100

ROP 15
GEOLOGRAPH STOPPED MARKING FOOTAGE
MUNCIE
HUSH
MYRICK
FT SC
ST. GEN
RTD 11:23 AM 07/21/2019



DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co**

202 W. Main
Salem, IL 62881

ATTN: Vern Schrag

C.L. Community #1-30

30-16S-32W Scott,KS

Start Date: 2019.07.19 @ 23:33:00

End Date: 2019.07.20 @ 05:34:50

Job Ticket #: 64363 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.07.22 @ 13:29:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

30-16S-32W Scott,KS

202 W. Main
Salem, IL 62881

C.L. Community #1-30

ATTN: Vern Schrag

Job Ticket: 64363

DST#: 1

Test Start: 2019.07.19 @ 23:33:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:41:50

Time Test Ended: 05:34:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: **4294.00 ft (KB) To 4400.00 ft (KB) (TVD)**

Reference Elevations: 2931.00 ft (KB)

Total Depth: 4400.00 ft (KB) (TVD)

2921.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8734 Outside

Press@RunDepth: 28.67 psig @ 4295.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.07.19 End Date: 2019.07.20

Last Calib.: 2019.07.20

Start Time: 23:33:01 End Time: 05:34:50

Time On Btm: 2019.07.20 @ 01:40:40

Time Off Btm: 2019.07.20 @ 03:44:40

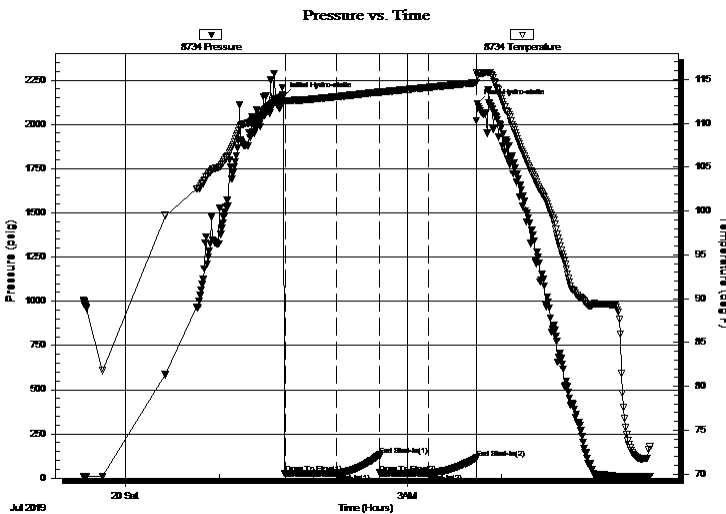
TEST COMMENT: 30-IF-Surface blow built to 1/4"

30-ISI-No blow back

30-FF-No blow

30-FSI-No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.40	113.12	Initial Hydro-static
2	28.14	112.60	Open To Flow (1)
35	29.09	113.04	Shut-In(1)
62	131.34	113.57	End Shut-In(1)
62	29.37	113.54	Open To Flow (2)
93	28.67	114.09	Shut-In(2)
124	114.84	114.63	End Shut-In(2)
124	2115.80	115.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co

30-16S-32W Scott,KS

202 W. Main
Salem, IL 62881

C.L. Community #1-30

Job Ticket: 64363

DST#: 1

ATTN: Vern Schrag

Test Start: 2019.07.19 @ 23:33:00

Tool Information

Drill Pipe:	Length: 4290.00 ft	Diameter: 3.80 inches	Volume: 60.18 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 60.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4294.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	106.00 ft			
Tool Length:	134.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4271.00	
Hydraulic tool	5.00	1113		4276.00	
Jars	5.00	01-07		4281.00	
Safety Joint	3.00	-001		4284.00	
Packer	5.00			4289.00	28.00 Bottom Of Top Packer
Packer	5.00			4294.00	
Stubb	1.00			4295.00	
Recorder	0.00	8959	Inside	4295.00	
Recorder	0.00	8734	Outside	4295.00	
Perforations	34.00			4329.00	
Change Over Sub	1.00			4330.00	
Drill Pipe	64.00			4394.00	
Change Over Sub	1.00			4395.00	
Bullnose	5.00			4400.00	106.00 Bottom Packers & Anchor

Total Tool Length: 134.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

30-16S-32W Scott,KS

202 W. Main
Salem, IL 62881

C.L. Community #1-30

Job Ticket: 64363

DST#: 1

ATTN: Vern Schrag

Test Start: 2019.07.19 @ 23:33:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

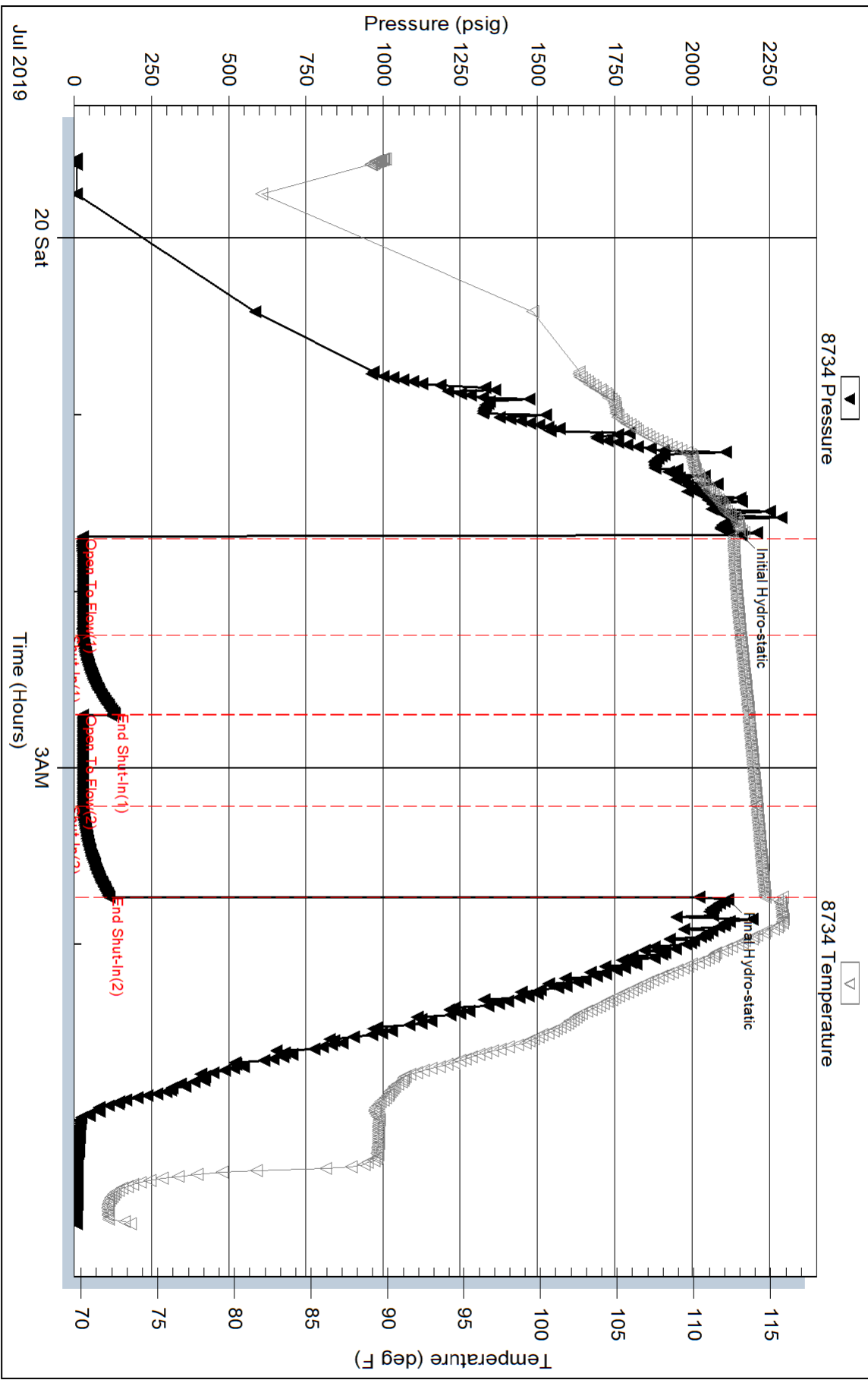
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



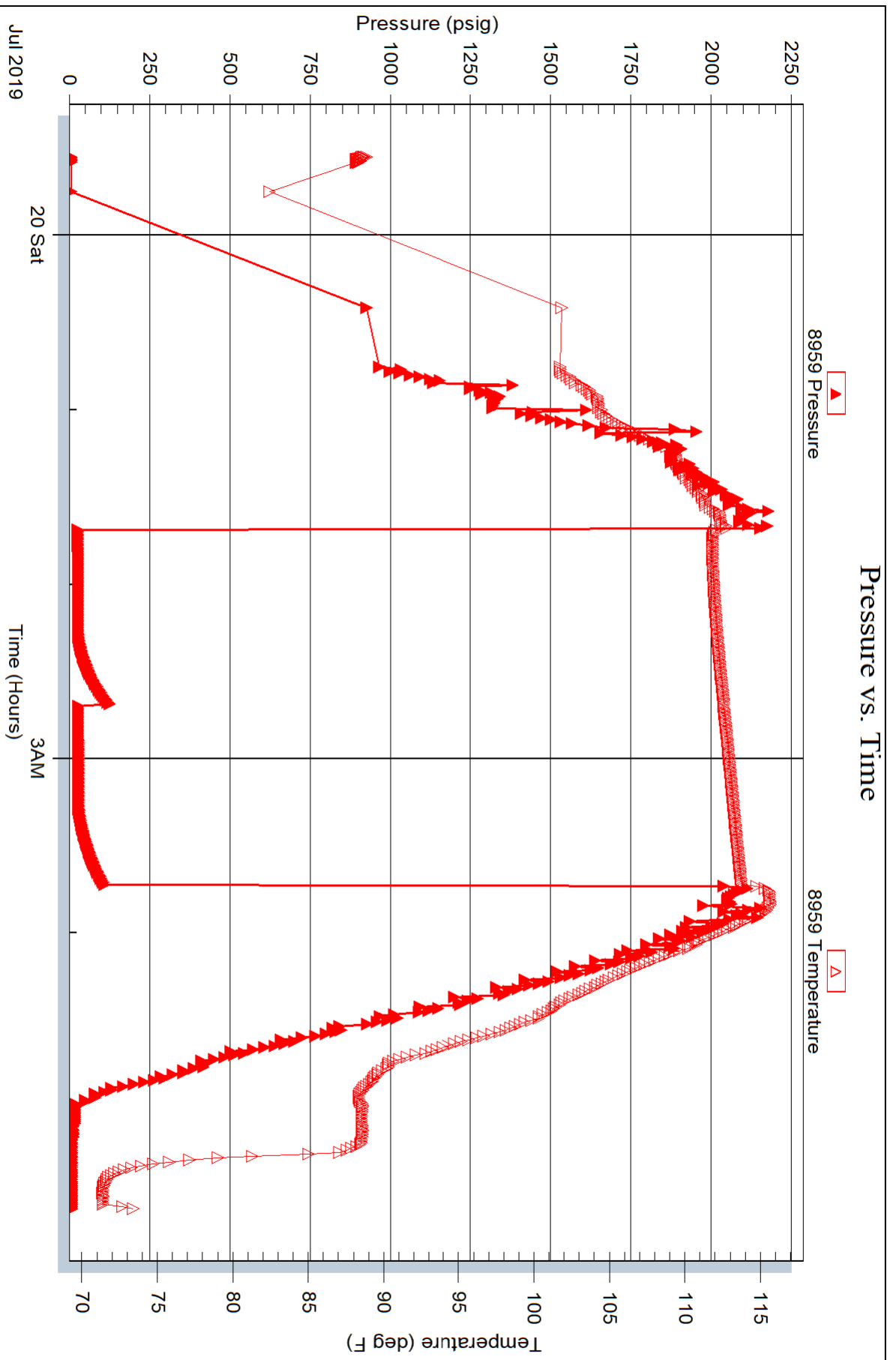
Serial #: 8959

Inside

Shakespeare Oil Co

C.L. Community #1-30

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64363

Printed: 2019.07.22 @ 13:29:20



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64363

Well Name & No. C.L. Community #1-30 Test No. 1 Date 7-19-19
 Company Shakespeare Oil Co Inc. Elevation 2931 KB 2921 GL
 Address 202 W Main Salem, IL 62881
 Co. Rep / Geo. Vern Schrag Rig Southwind #8
 Location: Sec. 30 Twp 16S Rge. 32W Co. Scott State KS

Interval Tested 4294-4400 Zone Tested Marmaton
 Anchor Length 106 Drill Pipe Run 4290 Mud Wt. 9.1
 Top Packer Depth 4289 Drill Collars Run — Vis 60
 Bottom Packer Depth 4294 Wt. Pipe Run — WL 7.2
 Total Depth 4400 Chlorides 2500 ppm System LCM 2#

Blow Description IF - S. blow built to 1/4"
ISI - No blowback
FF - No blow
FSI - No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 115 Gravity — API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic 2157 Test 1300 T-On Location 23:00
 (B) First Initial Flow 28 Jars 250 T-Started 23:33
 (C) First Final Flow 29 Safety Joint 75 T-Open 01:41
 (D) Initial Shut-In 131 Circ Sub T-Pulled 03:41
 (E) Second Initial Flow 29 Hourly Standby T-Out 05:35
 (F) Second Final Flow 29 Mileage 27 RT. x 2 54 Comments Released @ 07:30
 (G) Final Shut-In 115 Sampler 7-21-19
 (H) Final Hydrostatic 2116 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1679
 Accessibility MP/DST Disc't —
 Sub Total 1679

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Approved By Vern Schrag Our Representative Mark Salinas

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