

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	SCOTT COMMUNITY 1-3
Doc ID	1365578

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SCOTT COMMUNITY 1-3
Doc ID	1365578

Tops

Name	Top	Datum
Base Anhydrite	2475	+619
Heebner	3981	-887
Lansing	4026	-932
Muncie Creek	4200	-1106
Stark Shale	4296	-1202
Hushpuckney	4340	-1246
Marmaton	4428	-1334
Pawnee	4511	-1417
L. Cherokee Shale	4592	-1498
Johnson	4636	-1542
Mississippian	4756	-1662





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



# Invoice

DATE	INVOICE #
6/16/2017	30588

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	#1-3	Scott Commu...	Scott	Duke Drilling Rig ...	Oil	Development	Cement 8 5/8 sur...	David K.

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	800.00	800.00
325	Standard Cement	165	Sacks	12.25	2,021.25T
278	Calcium Chloride	7	Sack(s)	40.00	280.00T
279	Bentonite Gel	3	Sack(s)	25.00	75.00T
290	D-Air	2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement	165	Sacks	1.50	247.50
583D	Drayage	646	Ton Miles	0.75	484.50
	Subtotal				4,392.25
	Sales Tax Scott County			8.50%	209.12

INT

RECEIVED  
JUN 23 2017

10502-S  
KW

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$4,601.37
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DW



TICKET 30588

CHARGE TO: Shakespeare 011  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City KS</u>	WELL/PROJECT NO. <u>41-3</u>	LEASE <u>Scott Community</u>	COUNTY/PARISH <u>Scott</u>	STATE <u>KS</u>	CITY <u>Pence</u>	DATE <u>6-16-17</u>	OWNER <u>Same</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke Drilling</u>	RIG NAME/NO. <u>#S</u>	SHIPPED VIA <u>WT</u>	DELIVERED TO <u>Location</u>	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement 8 3/8" Surface Pipe</u>	WELL LOCATION <u>Pence - 2 1/2 mi. E. Ink</u>				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>575</u>					MILEAGE			<u>80</u>	<u>mi.</u>	<u>5.00</u>	<u>400.00</u>
<u>576S</u>					Pump Charge - Shallow Surface	<u>8 3/8</u>	<u>in</u>	<u>1</u>	<u>job</u>	<u>800.00</u>	<u>800.00</u>
<u>325</u>					Standard Cement			<u>165</u>	<u>lbs</u>	<u>12.35</u>	<u>2021.25</u>
<u>278</u>					Calcium Chloride	<u>3</u>	<u>%</u>	<u>7</u>	<u>sls</u>	<u>40.00</u>	<u>280.00</u>
<u>279</u>					Bentonite Gel	<u>2</u>	<u>%</u>	<u>3</u>	<u>sls</u>	<u>25.00</u>	<u>75.00</u>
<u>290</u>					D-Air			<u>2</u>	<u>gal</u>	<u>42.00</u>	<u>84.00</u>
<u>381</u>					Service Charge Cement			<u>165</u>	<u>sls</u>	<u>1.50</u>	<u>247.50</u>
<u>583</u>					Drayage	<u>1660</u>	<u>lbs</u>	<u>646</u>	<u>TM</u>	<u>00.75</u>	<u>484.50</u>

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

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

DATE SIGNED: 6-16-17 TIME SIGNED: 2:30 P.M.

SWIFT OPERATOR: David Huehn 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?	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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 4392.25

TOTAL: 4801.87

SWIFT TAX: 859.00

DATE: 6-16-17

ORDER NO.: 20912

OWNER: Same

THANK YOU!

JOB LOG

SWIFT Services, Inc.

DATE 6-16-17 PAGE NO. 1

CUSTOMER: Shalhe-specure Oil WELL NO. #1-3 LEASE: Scott Community JOB TYPE: 8 7/8" Surface TICKET NO. # 30588

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

2200

on location 8 7/8" 23"

RTD TP-268'

Rig Still Drilling

6-17-17 0000

Start 8 7/8" 23" casing in well

0100

Breaks circulation

0105

4 1/2

5

✓

100

Pump 5 bbl water Spacer

0110

4 1/2

40

✓

100

mix 165 sks STD 2% Gel 3% CC @ 14.7 fpm

0125

4 1/2

∅

✓

100

Displace Cement

4 1/2

11

✓

200

circulate cement to surface \* 20 sks \*

0130

∅

16

✓

200

Shut in valve

Release Pressure \* valve Hold \*

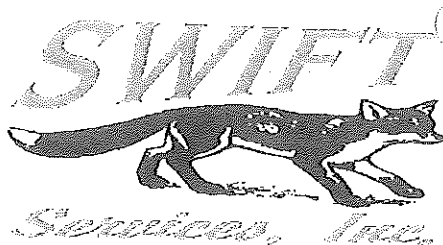
wash up truck

0200

Job Complete

Thank You  
Dave Preston Kirby





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



# Invoice

DATE	INVOICE #
6/25/2017	30396

*Revised*

<b>BILL TO</b>
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	#1-3	Scott Commu...	Scott	Duke Drilling Rig ...	Oil	Development	Cement Longstring	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
578D-L	Pump Charge - Long String				1	Job	1,250.00	1,250.00
325	Standard Cement				200	Sacks	12.25	2,450.00T
284	Calseal				9	Sack(s)	30.00	270.00T
283	Salt				1,000	Lb(s)	0.20	200.00T
285	CFR-1				100	Lb(s)	4.50	450.00T
286	Halad-1 (Halad 9)				100	Lb(s)	8.00	800.00T
276	Floccle				25	Lb(s)	2.25	56.25T
277	Gilsonite (Coal Seal)				1,400	Lb(s)	0.75	1,050.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
419-4	4 1/2" Rotating Head Rental				1	Each	200.00	200.00T
221	Liquid KCL (Clayfix)				2	Gallon(s)	25.00	50.00T
280	Flocheck 21				500	Gallon(s)	3.00	1,500.00T
581D	Service Charge Cement				200	Sacks	1.50	300.00
583D	Drayage				893	Ton Miles	0.75	669.75
	Subtotal							9,730.00
Customer Disc...	Customer Discount Per Ted						-10.00%	-973.00
	Subtotal							8,757.00
	Sales Tax Scott County						8.50%	604.37
								10502.5 R
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$9,361.37

RECEIVED  
JUL 10 2017

DW



TICKET 30398

SWIFT SERVICES, INC.  
 1330 W. 10th St.  
 Lawrence, KS 66044  
 (785) 843-2300

CHARGE TO: Shakespear  
 ADDRESS: \_\_\_\_\_  
 CITY, STATE, ZIP CODE: \_\_\_\_\_

SERVICE LOCATIONS:  
 1. 1330 W. 10th St. KS  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_

WELL PROJECT NO. 13  
 LEASE Scott County  
 COUNTY/PARISH Scott  
 CITY Pennington  
 STATE KS  
 DATE 25 JUN 17  
 OWNER \_\_\_\_\_

SOCKET TYPE \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_  
 SERVICE TO \_\_\_\_\_  
 SALES \_\_\_\_\_  
 WELL TYPE \_\_\_\_\_  
 WELL CATEGORY Development  
 JOB PURPOSE Development  
 DELIVERED TO Pennington  
 ORDER NO. \_\_\_\_\_  
 WELLS PERMITTED \_\_\_\_\_

REFERRAL LOCATION \_\_\_\_\_  
 INVOICE INSTRUCTIONS \_\_\_\_\_  
 WELLS PERMITTED \_\_\_\_\_

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING LOC	ACCT ID	DESCRIPTION	QTY	UNIT	PRICE	AMOUNT
575				MILEAGE TRK	20		20.00	400.00
576				Pennington				
205				STANDARD cement (for CA)	200	SK	1250.00	250000.00
284				seal	90	LB	10.25	922.50
285				seal	200	LB	30.00	6000.00
286				SFR	100	LB	1.20	120.00
276				fluid	100	LB	4.50	450.00
277				fluid	100	LB	8.00	800.00
280				6.15m	100	LB	2.50	250.00
419				D-110	2	EA	420.00	840.00
				Rotating headstock	1	EA	700.00	700.00
REMIT PAYMENT TO <b>SWIFT SERVICES, INC.</b> P.O. BOX 466 NESS CITY, KS 67560 785-798-2300								TOTAL 103210.00

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.

TO BE SIGNED BY CUSTOMER OR CUSTOMERS AGENT PRIOR TO DELIVERY OF GOODS

TIME SIGNED: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 TITLE: \_\_\_\_\_

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: \_\_\_\_\_  
 APPROVAL: \_\_\_\_\_

THE CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES LISTED ON THIS TICKET.

PO Box 466  
 Ness City, KS 67560  
 Off: 785-764-2800

NO. 80576

INVOICE REFERENCE NUMBER	ACCOUNTING NO.	DESCRIPTION	QTY	UNIT PRICE	AMOUNT	DATE	PAGE 1 OF 2
521	1	KA Liquid	2 gal	25.00	50.00	2-8-90	17
260	1	Flockhead	500 gal	3.00	1500.00		2
SERVICE CHARGE 205.1 1350.00 1655.10							
MILEAGE FROM WEIGH STATION 893 1669.75							
<b>QUANTITATIVE TOTAL</b>							

JOB LOG

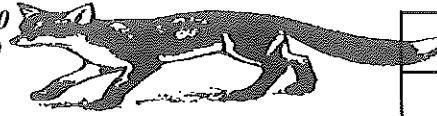
SWIFT Services, Inc.

DATE 25/08/17 PAGE

CUSTOMER		WELL NO		LEASE		JOB TYPE		TICKET NO	
Diverse		1-3		Swift Community		concrete long st		30396	
CHART NO	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
									200 sk standard (ST-2) amt to floor
									4 1/2" 11lb casing 10:43 7' 8" concrete
									slight 2 1/2" FOR COURSE 2423'
	2300								on loc. TRK 114
	2300								start 4 1/2" 11lb casing in well
	0100								Drop ball - circulate - ROTATE
	0100		32						Run 5' ball ch - 30' self check - 15' wgt. R
			7						Plug BT - MH 30' - 205'
	0200	4	47				100		mix ST-2 amt 150' e. 15.3 pp
									Drag latx down plug
									wash out Pump & Line
	0240	6					100		Displace plug
			60				150		
	0300	6	76				1600		Land plug
	0303								Release pressure to feeds - direct op
	0305								wash truck
									Rack up
	0340								job complete
									Flacks
									Blow flat \$ 15000



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



# Invoice

DATE	INVOICE #
7/3/2017	30400

*Revised*

- Acidizing
- Cement
- Tool Rental

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

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-3	Scott Commu...	Scott	Husker Well	Oil	Development	Cement Port Collar	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,250.00	1,250.00
330	Swift Multi-Density Standard (MIDCON II)				220	Sacks	15.75	3,465.00T
276	Flocele				60	Lb(s)	2.25	135.00T
290	D-Air				3	Gallon(s)	42.00	126.00T
104	Port Collar Tool Rental				1	Each	200.00	200.00T
581D	Service Charge Cement				350	Sacks	1.50	525.00
583D	Drayage				1,393.14	Ton Miles	0.75	1,044.86
	Subtotal							7,145.86
Customer Disc...	Customer Discount Per Ted						-10.00%	-714.59
	Subtotal							6,431.27
	Sales Tax Scott County						8.50%	300.34
<b>RECEIVED</b>						JUL 17 2017		10502-B K
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$6,731.61

*DW*



TICKET 30400

CHARGE TO: *Snakegrass*  
 ADDRESS  
 CITY, STATE, ZIP CODE

WELL PROJECT NO. *1-3*  
 LEASE *Scott Greenwood*  
 COUNTY/PARISH *Seath*  
 CITY *Perce*  
 STATE *KS*  
 DATE *3 Jul 17*  
 OWNER

TICKET TYPE  SERVICE  
 SALES  
 CONTRACTOR  
 RIG NAME NO.  
 DELIVERED TO  
 ORDER NO.

WELL TYPE *Dirt*  
 WELL CATEGORY *HUSKOR*  
 JOB PURPOSE *cement post collar*  
 WELL PERMIT NO.  
 WELL LOCATION

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE PART NUMBER	ACCOUNTING		DESCRIPTION	CITY	MILE	UNIT PRICE	AMOUNT
		LOC	ACCT					
575				MILEAGE TRK # 114		5.20		400.00
576				TRUCK CHARGE		12.50		1250.00
530				SMI cement		15.75		3465.00
576				Shrink		2.25		135.00
590				DRUSE		42.00		1306.00
591				Quarry tool rental		200.00		2000.00
591				Electric chisel		1.50		525.00
598				Drayage		10.75		1044.86

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.

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

TIME SIGNED  A.M.  P.M. *15:33*

OPERATOR *ADL* APPROVAL *ADL*

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

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	YES	NO
WE UNDERSTOOD AND MET YOUR NEEDS?	YES	NO
OUR SERVICES PERFORMED WITHOUT DELAY?	YES	NO
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	YES	NO
ARE YOU SATISFIED WITH OUR SERVICE?	YES	NO
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND		

PAGE TOTAL *114.59*  
 TOTAL *9729.67*

JOB LOG

WELL SERVICE, INC.

5/11/17

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Shakespeare		1-3		Scott Community		Cement port collar		30900	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
									350 sl. SMD cement w/ 1/2" floccle 2 3/4" port collar - 24'0"
	1145								DN loc TRK 114
	1200					1000	1000		Test to 1000 psi - hold - open port collar
		3 1/2	2			600			inj rate 3 1/2 bpm @ 600 psi
	1206	3 1/2				600			Mix SMD cement @ 11.2 ppg
		3 1/2	13			600			fluid circ to surface
		3 1/2	117			650			→ cement to surface ← { 2200 mixed } { 15 to pit }
		3 1/2	42			650			Displace w/ 8 1/2 bbl H <sub>2</sub> O
									close port collar
	1246								Test to 1000 psi - hold
	1250								Run 5 joints
	1257		20						Reverse hole clean - 2 cement plugs -
									used truck
									Rack up
	1335								Job complete Haber Phnt, Blaine & Isaac

**GEOLOGIST'S REPORT**  
**DRILLING TIME AND SAMPLE LOG**

COMPANY ShakESPARE OIL CO.  
 LEASE Scott Community-1-3  
 FIELD Wildcat  
 LOCATION 305 TWP 50' FEL  
 SEC 3 T15SP 16S R0E 34W  
 COUNTY Scott STATE Kansas

CONTRACTOR HD Rite 2  
 SPUD 6/16/17 COMP 6/25/17  
 RTD 4930' LTD 4931'  
 MUD UP 3600' TYPE MUD Chemical  
 SAMPLES SAVED FROM 3800' to RTD  
 DRILLING TIME KEPT FROM 3800' to RTD  
 SAMPLES EXAMINED FROM 3800' to RTD  
 GEOLOGICAL SUPERVISION FROM 3800' to RTD  
 GEOLOGIST ON WELL Tim Priest

FORMATION TOPS  
 Anydrite 2456 (+638)  
 Heebner Shale 3982 (-885)  
 Jansing 4026 (-935)  
 SIRC 4296 (-1202)  
 BRC 4382 (-1288)  
 Fort Scott 4565 (-1471)  
 Cherokee Shale 4592 (-1498)  
 Mississippian 4756 (-1662)

ELEVATIONS  
 KB 3094'  
 DF \_\_\_\_\_  
 GL 3083'  
 Measurements Are All From KB  
 CASING CONDUCTION N/A  
 SURFACE 8-5/8" @  
 PRODUCTION 4 1/2" @4930'

REMARKS Due to the results of DST #1, it was decided to set production casing to further test the well.

Respectfully Submitted,  
 Tim Priest  
 Petroleum Geologist

API #15-171-21206-00-00

By: Weatherford

Micro

3 O

DEPTH

LITHOLOGY

DRILLING TIME IN MINUTES PER FOOT

Rate of Penetration Decreases

LEGEND

Anydrite Sandstone Limestone Shale Carb Sh Cherty LS Chert Dolomite

DEPTH

SAMPLE DESCRIPTION

REMARKS

50 Anhydrite 2452(+642)

Base/ Anhydrite 2472(+622)

2500

3800

50 Ls crm-tan gry, fn xtl, dnse

Sh red-gry

Ls/Dol tan, fn xtl, chky, f int xtl por, NS

Ls crm-tan-gry, fn xtl, arg in prt no vis por

Ls crm-gry motld, fos, sli chky, p-f int xtl-pp por, NS

Sh blk, carb

Sh/SS red-gry, fn-med grn, p sort, friable, NS

Ls crm-tan-gry, fn xtl, arg in prt no vis por

Ls tan, vfn xtl, sli fos, dnse

Sh blk, carb

Sh red-maroon

Ls crm-tan gry, fos, chky, p-f int xtl & int frag por, NS

Ls crm, vfn xtl, chty, dnse

Ls crm-tan, fn xtl, fos, p-f int xtl-pp por, NS

Ls crm-tan, fn xtl, fos, f int xtl-pp por, NS

Ls crm-tan, fn xtl, fos, f int xtl-pp por, NS

Heebner 3981 (-887)

Sh blk, carb

Sh gry-dk gry, calc

Toronto 3999 (-905)

Ls crm-t gry, fn xtl, fos, sli chty, p int xtl por, NS

Ls crm-tan, fn xtl, fos, chky, p-f int xtl-pp por, NS

Sh gry-dk gry, calc

Lansing 4029 (-935)

Ls crm-t gry, fn xtl, fos, f int xtl & int frag por, NS

Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, NS

Sh gry-dk gry

Ls crm-t gry, fn xtl, fos, p-f int xtl-pp & int frag por, NS

Sh gry-dk gry

Ls crm, vfn xtl, fos, sli chty, sli chky, p-f int xtl-int frag por, NS

Ls crm-t gry, vfn xtl, sli chty, dnse

Sh dk gry-blk

Ls crm, fn xtl, fos-sli ool, chky, p int xtl-pp por, NS

Sh gry

Ls crm-t gry, fn xtl, fos-sub ool, chky, p-f int xtl & int frag por, NS

Dol crm, fn-med xtl, chky, p int xtl por, NS

Ls crm-tan, fn xtl, fos, chky, p-f int xtl por, NS

Ls crm-tan, fn xtl, fos, chky, p-f int xtl por, NS

Ls crm-tan, fn xtl, fos, chky, p-f int xtl-pp por, NS

Muncie Creek 4200 (-1106)

Sh blk, carb

Ls gry, fn xtl, fos, p-f int xtl-pp por, sptd-sat stn, SSFO, sil odor, dull flour

Ls lt gry, fn xtl, fos, chky, p-f int xtl-pp por, sptd-sat stn, SSFO, sil odor, dull flour

Ls lt gry, vfn xtl, chty, dnse

Ls crm, fn xtl, fos, chky, p-f int xtl-pp por, sptd-sat stn, SFO, f odor, dull flour

Ls crm, vfn xtl, fos, chky, p-f int xtl-pp por, sptd-sat stn, SFO, f odor, dull flour

Sh grn-gry

Ls crm-t gry, fn xtl, ool, sli chky, f int ool & ooc por, NS

Ls crm-t gry, vfn xtl, dnse

Stark 4296 (-1202)

Sh blk, carb

Ls crm-gry, vfn xtl, dnse

Sh red-gry, calc

Ls crm-t gry, fn xtl, dolo, fos, chky, f int xtl-pp por, NS

Ls crm-t gry, fn xtl, fos, chky, p-f int xtl-pp por, NS

Hushpuckney 4339 (-1245)

Sh blk, carb

Ls lt gry, vfn xtl, dnse

Ls crm-t gry, fn xtl, fos, chky, p-f int xtl-pp por, NS

Ls crm-gry, fn xtl, fos, chky, arg in prt

B/K.C. 4375 (-1281)

Sh gry-dk gry

Ls/Dol, crm fn xtl, p int xtl por, NS

Ls tan-gry, mic xtl, dnse

Sh dk gry-blk

Sh var col, silty, calc in prt

Marmaton 4412 (-1316)

Ls crm-tan, fn xtl, sli fos, chky, p-f int xtl-pp por, sptd-sli sat stn, VSSFO, sil odor, dull flour

Sh gry-blk

Altamont 4428 (-1334)

Ls crm-t gry, fos-ool, sli chky, p-f int xtl & int frag por, sptd-sli sat stn, SFO, sil-f odor, dull-f flour

Sh red-gry,calc

Ls crm-t gry, fos-ool, sli chty, p-f int xtl & int frag por, sptd-sli sat stn, SSFO, sil odor, dull-f flour

Ls crm-tan, vfn xtl, sli chty, dnse

Sh blk, carb

Sh dk gry-blk

Ls crm-t gry, vfn xtl, dnse

Pawnee 4515 (-1421)

Ls crm-t gry, vfn xtl, dnse

Ls tan-gry, vfn xtl, arg in prt

Ls lt gry-gry, vfn xtl, sli chty, dnse

Sh blk, carb

Ls crm-t gry, fn xtl, fos, p-f int xtl-pp por, sptd-sli sat stn, SSFO, f odor, dull flour

Sh blk, carb

Ls crm, fn xtl, w/quarts SS, f int xtl-pp por w/few vugs, sptd-sat dk stn, SFO, f odor, dull flour

Ls crm-tan-gry, vfn xtl, dnse

Fort Scott 4562 (-1468)

Ls tan-gry, mic xtl, dnse

Cherokee Shale 4592 (-1498)

Sh blk, carb

Ls gry-tan, fn xtl, fos, chky, f int xtl & int frag por, NS

Sh dk gry

Ls gry, mic xtl, dnse

Sh blk, carb, w/int bed vfn xtl tan-gry Ls

Ls tan, mic xtl, dnse

Sh tan-gry, dk xtl, dnse

Johnson Zone 4634 (-1540)

Ls crm-tan-gry, vfn xtl, sli fos, p int xtl-pp por, sptd stn, VSSFO, sil odor, dull flour

Ls crm-tan-gry, vfn xtl, sli fos, p int xtl-pp por, sptd stn, VSSFO, sil odor, dull flour

Ls crm-tan-gry, vfn xtl, dnse

Ls crm-t gry, fn xtl, fos, p-f int xtl-pp por, sptd-sli sat stn, SSFO, f odor, dull flour

Ls crm, fn xtl, w/quarts SS, f int xtl-pp por w/few vugs, sptd-sat dk stn, SFO, f odor, dull flour

Ls crm-tan-gry, vfn xtl, dnse

Sh var col

SS clear-wh, fn-med grn, sub rnd, sli glauc, well cement, NS

Sh dk gry

Sh grn-gry-dk gry, w/dirty SS stringers, NS

Sh var col, calc

SS clear-lt gry, fn-med xtl, sub rnd, sli fria, NS

Mississippian 4755 (-1661)

Ls crm-t gry, vfn xtl, dnse, w/ fn-coarse grn SS inclus

Ls crm, vfn xtl, chky, sandy, dnse,

Ls crm-tan, vfn xtl, sli sandy in prt

Ls crm-tan, vfn xtl, sli sandy in prt

Sh var col, w/var col cht

Ls crm-tan, vfn xtl, dnse

Ls crm-tan, vfn xtl, sli sandy in prt

Ls crm, vfn xtl, chky, sandy, dnse,

Ls crm-tan, mic xtl, dnse

Ls crm-t gry, vfn xtl, dnse

Ls crm, vfn xtl, sandy, dnse

Ls crm-tan, vfn xtl, dnse

Ls crm-tan-gry motld, mic xtl dnse

Total Depth 4930 (-1836)

DST # 1 (4392-4465)

30'-60'-45'-30'

FF: BOB 1', 6 in, return

Rec: 562 GOM(89%G, 70%O), 232 GOM(20%G, 89%O), 233 GOM(10%G, 20%O, 70%M), Total Fluid: 1477

SIPs: 135-362W(92-667#)

SIPs: 1242W(218#)

HSPs: 2276W(2224#)

BHT: 118 deg F

Gravity: 31

DST # 2 (4450-4510)

30'-30'-30'-30'

FF: Dred in 25', no return

FF: No flow, no return

Rec: 180 Mud

SIPs: 62-67W(101-107#)

SIPs: 556W(136#)

HSPs: 2235W(2193#)

BHT: 115 deg F

DST # 3 (4631-4710)

30'-45'-45'-60'

FF: BOB 1', no return

FF: BOB 17', no return

Rec: 340 WDM(2%O, 2%W, 80%M), 357 DMW(3%O, 80%W, 17%M)

Total: 69

SIPs: 61-237W(249-368#)

SIPs: 1152W(1095#)

HSPs: 2418W(2366#)

BHT: 121 deg F

Chert: 25,000ppm





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co.**

202 W Main St.  
Salem IL 62881

ATTN: Tim Priest

### **Scott Community #1-3**

#### **3-16s-34w Scott,KS**

Start Date: 2017.06.21 @ 20:47:15

End Date: 2017.06.22 @ 06:07:00

Job Ticket #: 63745                      DST #: 1

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

Printed: 2017.06.26 @ 10:07:30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.

**3-16s-34w Scott,KS**

202 W Main St.  
Salem IL 62881

**Scott Community #1-3**

ATTN: Tim Priest

Job Ticket: 63745

**DST#: 1**

Test Start: 2017.06.21 @ 20:47:15

## GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:01:00

Time Test Ended: 06:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

**Interval: 4392.00 ft (KB) To 4465.00 ft (KB) (TVD)**

Reference Elevations: 3094.00 ft (KB)

Total Depth: 4465.00 ft (KB) (TVD)

3083.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6749 Outside**

Press@RunDepth: 597.48 psig @ 4460.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.21

End Date:

2017.06.22

Last Calib.:

2017.06.22

Start Time: 20:47:15

End Time:

06:07:00

Time On Btm:

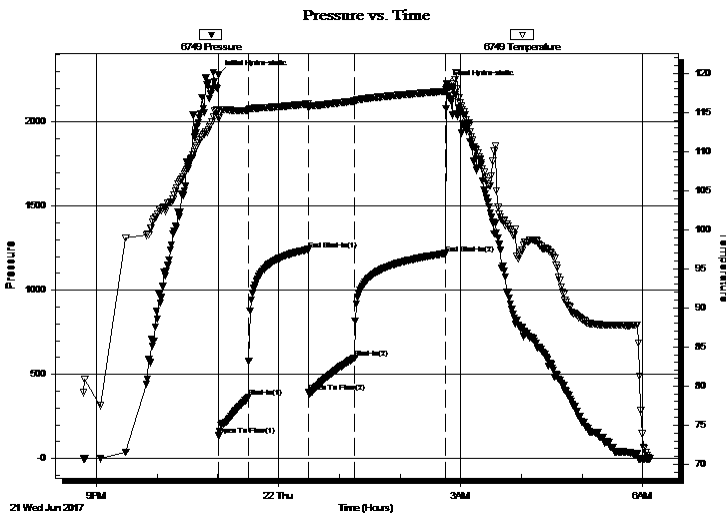
2017.06.21 @ 23:00:45

Time Off Btm:

2017.06.22 @ 02:46:15

**TEST COMMENT:** IF:BOB in 4 min.  
IS:BOB in 28 min. and died back to 7" blow  
FF:BOB in 1 min.  
FS:Built to 6" blow and died in 70 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.73	115.34	Initial Hydro-static
1	135.52	114.31	Open To Flow (1)
30	362.93	115.25	Shut-In(1)
89	1242.16	116.09	End Shut-In(1)
89	392.08	115.66	Open To Flow (2)
135	597.48	116.46	Shut-In(2)
225	1218.67	117.71	End Shut-In(2)
226	2224.59	118.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
233.00	gcom 10%g 20%o 70%m (collars)	1.15
682.00	gco 20%g 80%o	9.57
562.00	gco 30%g 70%o	7.88

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co.

**3-16s-34w Scott,KS**

202 W Main St.  
Salem IL 62881

**Scott Community #1-3**

Job Ticket: 63745

**DST#: 1**

ATTN: Tim Priest

Test Start: 2017.06.21 @ 20:47:15

## Tool Information

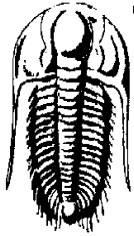
Drill Pipe:	Length: 4165.00 ft	Diameter: 3.80 inches	Volume: 58.42 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4392.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4377.00	
Shut In Tool	5.00			4382.00	
Hydraulic tool	5.00			4387.00	
Packer	5.00			4392.00	16.00 Bottom Of Top Packer
Packer - Shale	0.00			4392.00	
Stubb	1.00			4393.00	
Perforations	2.00			4395.00	
Change Over Sub	1.00			4396.00	
Drill Pipe	63.00			4459.00	
Change Over Sub	1.00			4460.00	
Recorder	0.00	8672	Inside	4460.00	
Recorder	0.00	6749	Outside	4460.00	
Bullnose	5.00			4465.00	73.00 Anchor Tool

**Total Tool Length: 89.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.

**3-16s-34w Scott,KS**

202 W Main St.  
Salem IL 62881

**Scott Community #1-3**

Job Ticket: 63745

**DST#: 1**

ATTN: Tim Priest

Test Start: 2017.06.21 @ 20:47:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.74 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
233.00	gcom 10%g 20%o 70%m (collars)	1.146
682.00	gco 20%g 80%o	9.567
562.00	gco 30%g 70%o	7.883

Total Length: 1477.00 ft      Total Volume: 18.596 bbl

Num Fluid Samples: 0

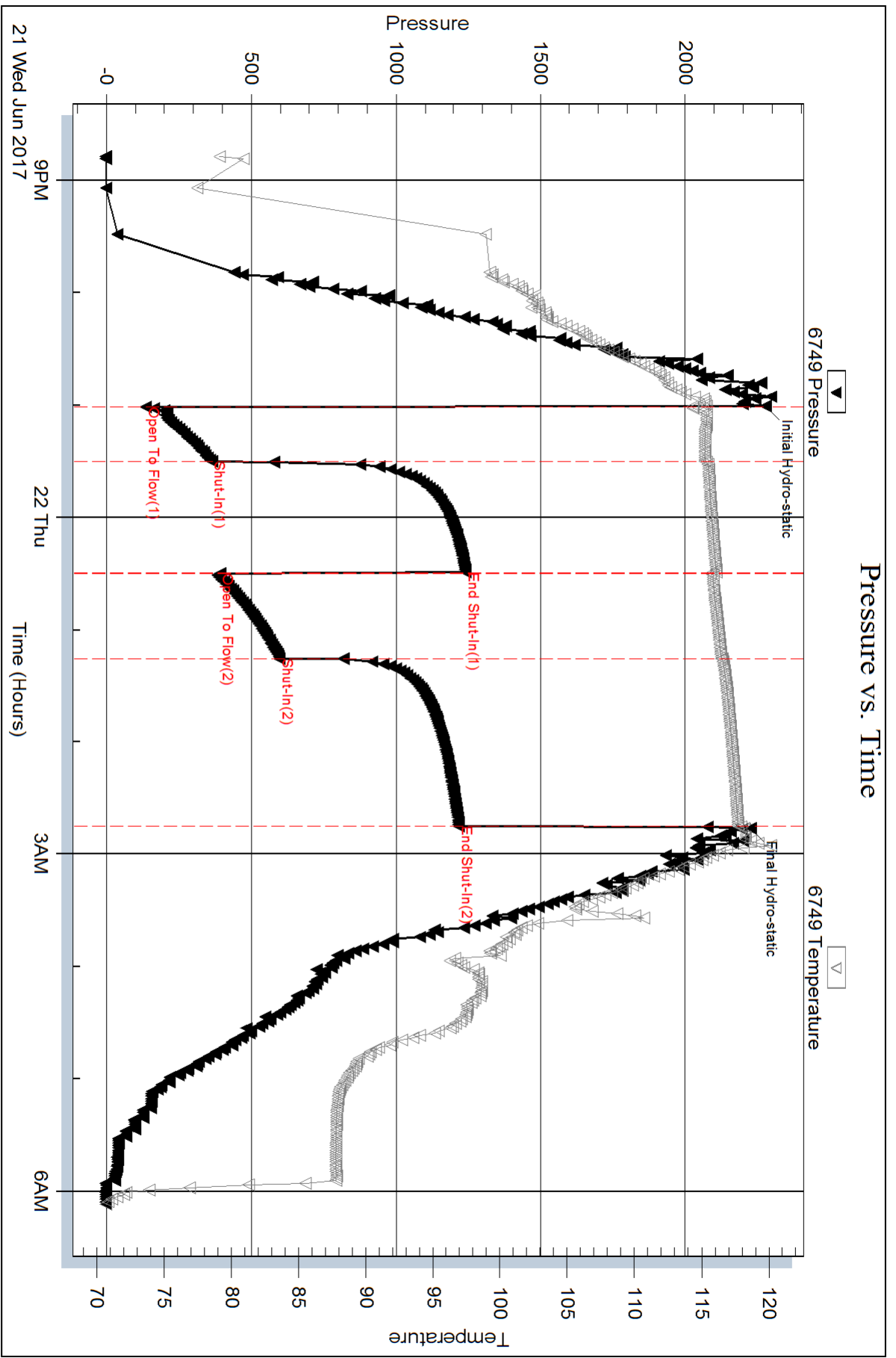
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API 31 @ 60 corrected to 31



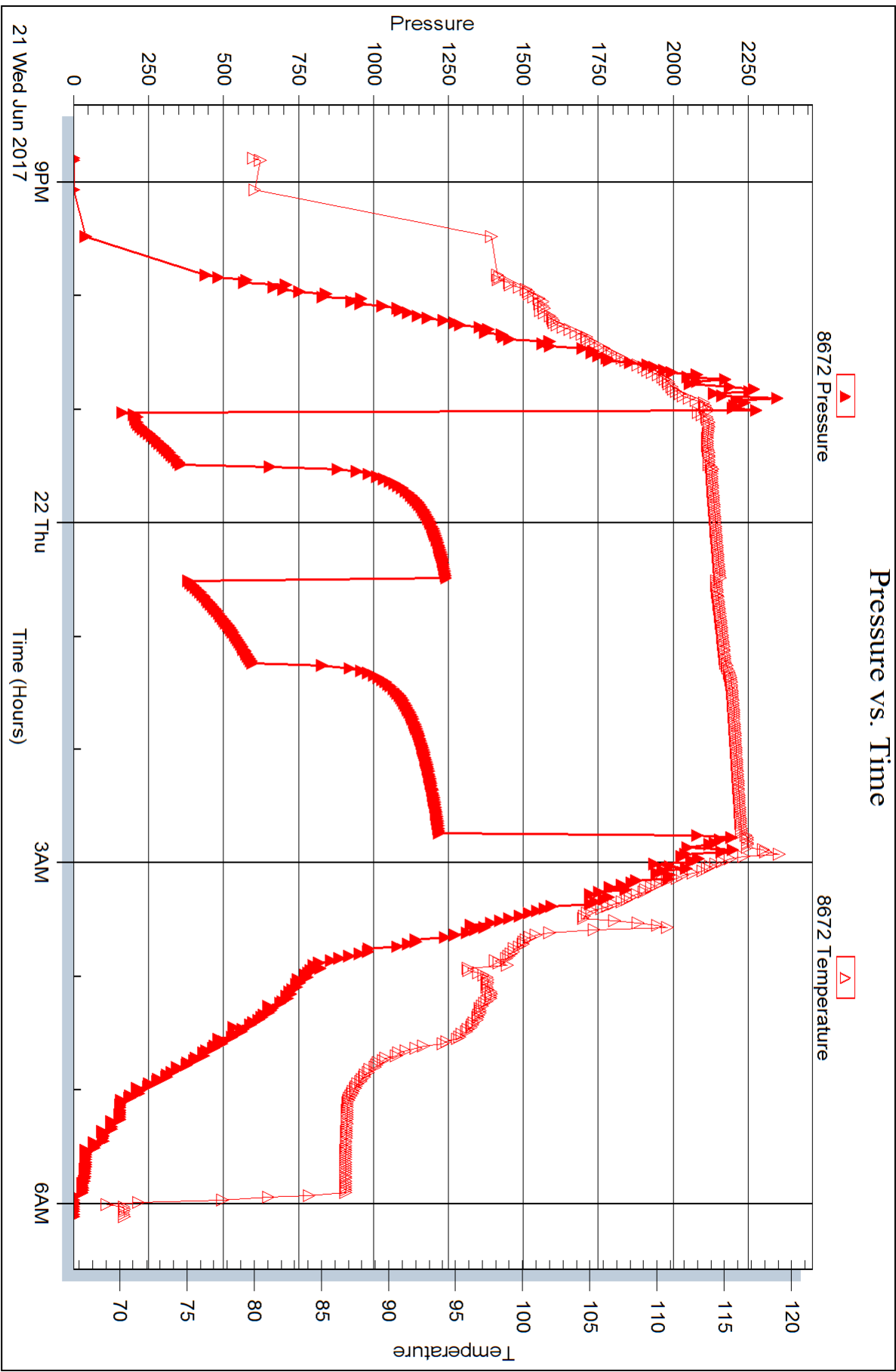
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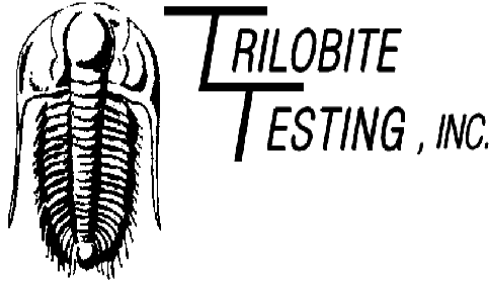
Inside

Shakespeare Oil Co.

Scott Community #1-3

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co.**

202 W Main St.  
Salem IL 62881

ATTN: Tim Priest

### **Scott Community #1-3**

#### **3-16s-34w Scott,KS**

Start Date: 2017.06.22 @ 17:02:15

End Date: 2017.06.22 @ 22:48:30

Job Ticket #: 63746                      DST #: 2

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

Printed: 2017.06.26 @ 10:07:09





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.

**3-16s-34w Scott,KS**

202 W Main St.  
Salem IL 62881

**Scott Community #1-3**

ATTN: Tim Priest

Job Ticket: 63746

**DST#: 2**

Test Start: 2017.06.22 @ 17:02:15

## GENERAL INFORMATION:

Formation: **Marmaton B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:57:30

Time Test Ended: 22:48:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4456.00 ft (KB) To 4510.00 ft (KB) (TVD)**

Reference Elevations: 3094.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

3083.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6749**

**Outside**

Press@RunDepth: 107.45 psig @ 4495.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.22

End Date:

2017.06.22

Last Calib.: 1899.12.30

Start Time: 17:02:15

End Time:

22:48:30

Time On Btm: 2017.06.22 @ 18:57:00

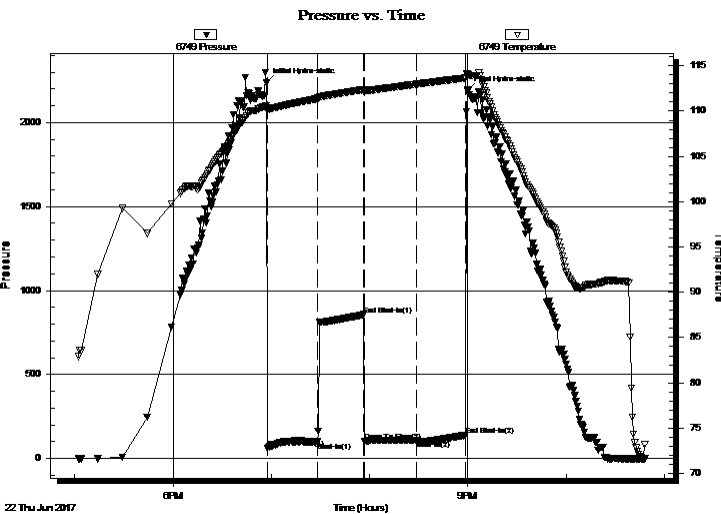
Time Off Btm: 2017.06.22 @ 20:59:45

TEST COMMENT: IF: Built to 1 1/2" blow died in 25 min.

IS: No return blow

FF: No blow

FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.17	110.63	Initial Hydro-static
1	62.28	110.05	Open To Flow (1)
32	97.14	111.38	Shut-In(1)
60	856.61	112.38	End Shut-In(1)
60	101.10	112.05	Open To Flow (2)
92	107.45	112.98	Shut-In(2)
122	139.06	113.66	End Shut-In(2)
123	2193.09	114.10	Final Hydro-static

## Recovery

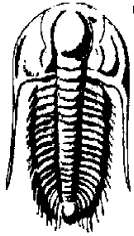
Length (ft)	Description	Volume (bbl)
180.00	mud 100% m	0.89

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co.

**3-16s-34w Scott,KS**

202 W Main St.  
Salem IL 62881

**Scott Community #1-3**

Job Ticket: 63746

**DST#: 2**

ATTN: Tim Priest

Test Start: 2017.06.22 @ 17:02:15

## Tool Information

Drill Pipe:	Length: 4211.00 ft	Diameter: 3.80 inches	Volume: 59.07 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	4456.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4433.00	
Shut In Tool	5.00			4438.00	
Hydraulic tool	5.00			4443.00	
Jars	5.00			4448.00	
Safety Joint	3.00			4451.00	
Packer	5.00			4456.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4456.00	
Stubb	1.00			4457.00	
Perforations	4.00			4461.00	
Change Over Sub	1.00			4462.00	
Drill Pipe	32.00			4494.00	
Change Over Sub	1.00			4495.00	
Recorder	0.00	8672	Inside	4495.00	
Recorder	0.00	6749	Outside	4495.00	
Bullnose	5.00			4500.00	44.00 Anchor Tool

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.

**3-16s-34w Scott,KS**

202 W Main St.  
Salem IL 62881

**Scott Community #1-3**

Job Ticket: 63746

**DST#: 2**

ATTN: Tim Priest

Test Start: 2017.06.22 @ 17:02:15

## 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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.16 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	mud 100%m	0.885

Total Length: 180.00 ft      Total Volume: 0.885 bbl

Num Fluid Samples: 0

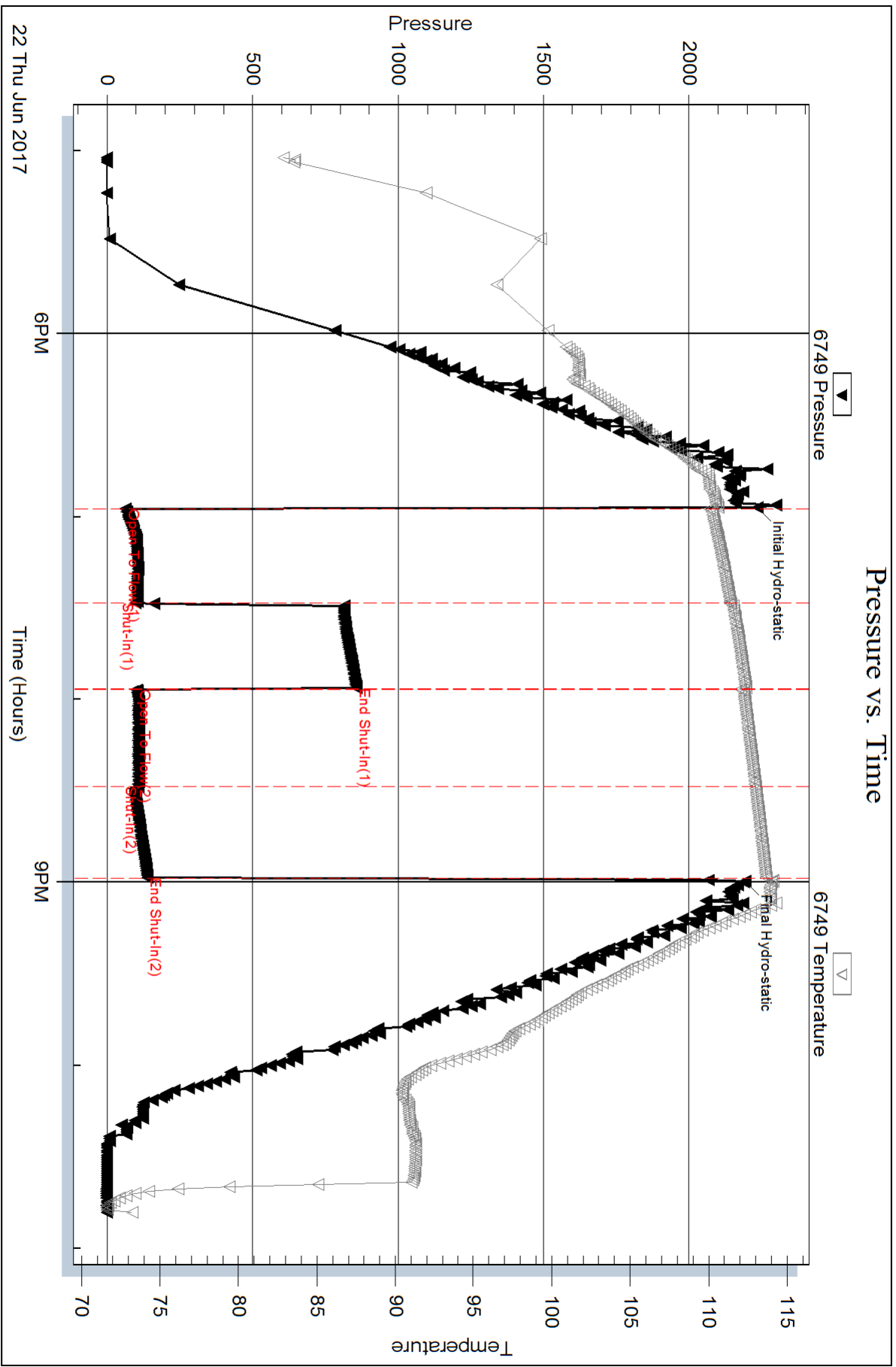
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



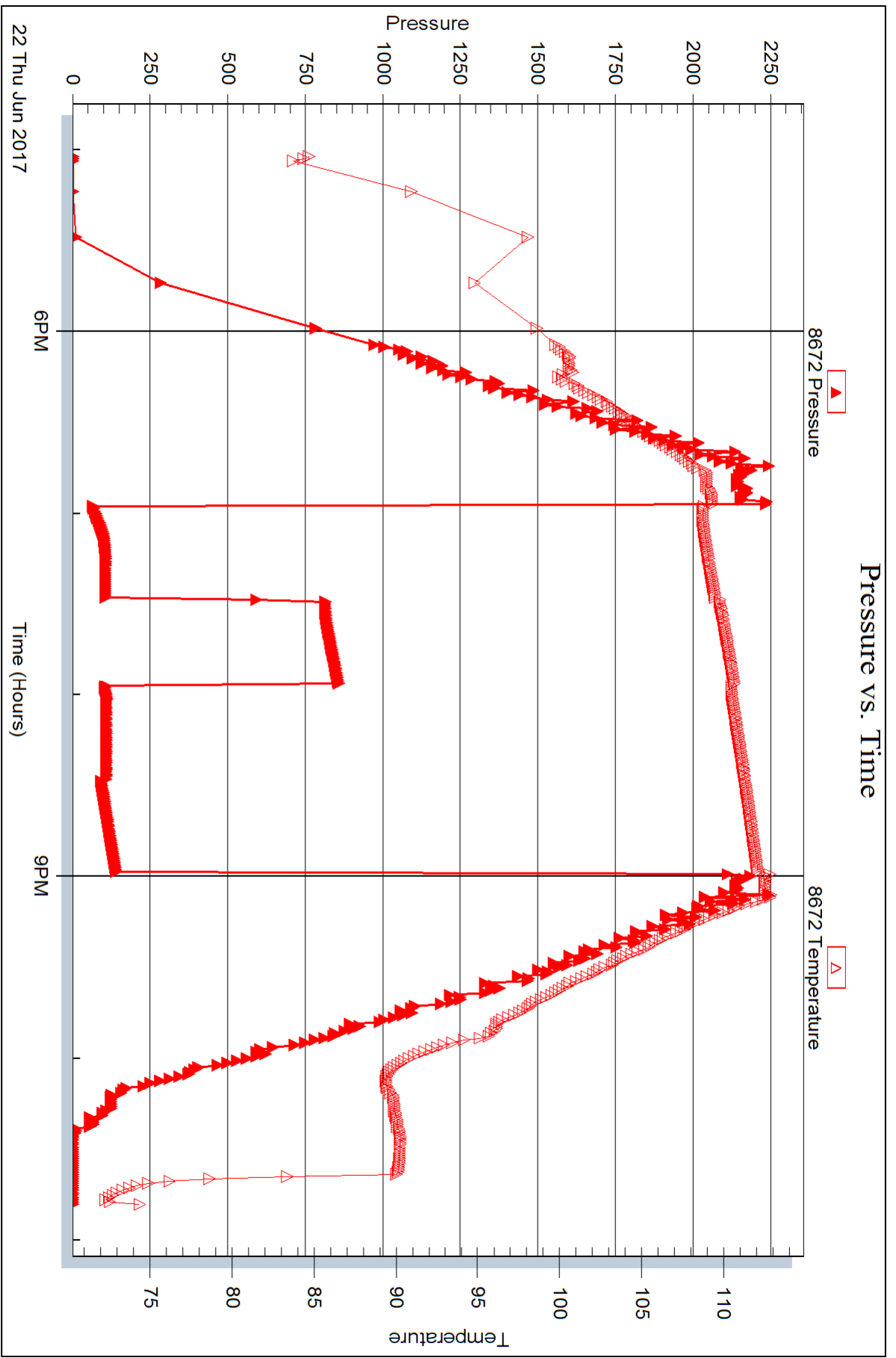
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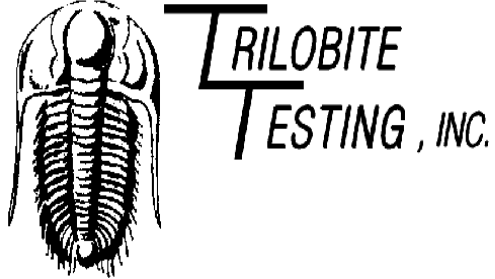
Inside

Shakespeare Oil Co.

Scott Community #1-3

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co.**

202 W Main St.  
Salem IL 62881

ATTN: Tim Priest

### **Scott Community #1-3**

#### **3-16s-34w Scott,KS**

Start Date: 2017.06.23 @ 22:46:15

End Date: 2017.06.24 @ 06:40:00

Job Ticket #: 63747                      DST #: 3

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

Printed: 2017.06.26 @ 10:06:12



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.

**3-16s-34w Scott,KS**

202 W Main St.  
Salem IL 62881

**Scott Community #1-3**

ATTN: Tim Priest

Job Ticket: 63747

**DST#: 3**

Test Start: 2017.06.23 @ 22:46:15

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:11:15

Time Test Ended: 06:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4631.00 ft (KB) To 4710.00 ft (KB) (TVD)**

Reference Elevations: 3094.00 ft (KB)

Total Depth: 4710.00 ft (KB) (TVD)

3083.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6749 Outside**

Press@RunDepth: 368.16 psig @ 4709.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.23

End Date:

2017.06.24

Last Calib.:

2017.06.24

Start Time: 22:46:15

End Time:

06:40:00

Time On Btm:

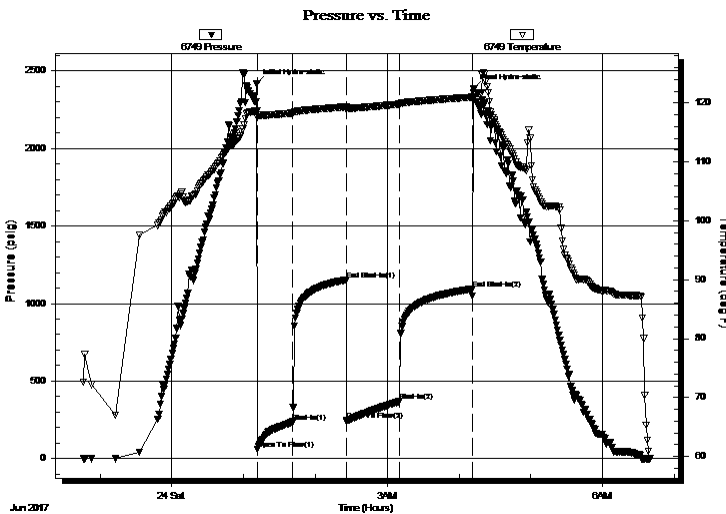
2017.06.24 @ 01:11:00

Time Off Btm:

2017.06.24 @ 04:12:15

TEST COMMENT: IF:BOB in 11 min.  
IS:No return blow  
FF:BOB in 17 min.  
FS:No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2418.34	118.68	Initial Hydro-static
1	61.17	117.50	Open To Flow (1)
30	237.30	118.29	Shut-In(1)
75	1152.69	119.36	End Shut-In(1)
75	249.22	118.87	Open To Flow (2)
120	368.16	119.80	Shut-In(2)
180	1093.48	120.99	End Shut-In(2)
182	2386.03	121.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
233.00	ocmw 2%o 20%m 78%w (collars)	1.15
124.00	ocmw 3%o 13%m 84%w	1.74
340.00	w com 2%w 3%o 95%m	4.77

## Gas Rates

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

\* Recovery from multiple tests







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shakespeare Oil Co.

**3-16s-34w Scott,KS**

202 W Main St.  
Salem IL 62881

**Scott Community #1-3**

Job Ticket: 63747

**DST#: 3**

ATTN: Tim Priest

Test Start: 2017.06.23 @ 22:46:15

## Tool Information

Drill Pipe:	Length: 4403.00 ft	Diameter: 3.80 inches	Volume: 61.76 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 233.00 ft	Diameter: 2.25 inches	Volume: 1.15 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4631.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	107.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4608.00	
Shut In Tool	5.00			4613.00	
Hydraulic tool	5.00			4618.00	
Jars	5.00			4623.00	
Safety Joint	3.00			4626.00	
Packer	5.00			4631.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4635.00	
Stubb	1.00			4636.00	
Perforations	8.00			4644.00	
Change Over Sub	1.00			4645.00	
Drill Pipe	63.00			4708.00	
Change Over Sub	1.00			4709.00	
Recorder	0.00	8672	Inside	4709.00	
Recorder	0.00	6749	Outside	4709.00	
Bullnose	5.00			4714.00	83.00 Anchor Tool

**Total Tool Length: 107.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil Co.

**3-16s-34w Scott,KS**

202 W Main St.  
Salem IL 62881

**Scott Community #1-3**

Job Ticket: 63747

**DST#: 3**

ATTN: Tim Priest

Test Start: 2017.06.23 @ 22:46:15

## 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:

25000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
233.00	ocmw 2%o 20%m 78%w (collars)	1.146
124.00	ocmw 3%o 13%m 84%w	1.739
340.00	w com 2%w 3%o 95%m	4.769

Total Length: 697.00 ft      Total Volume: 7.654 bbl

Num Fluid Samples: 0

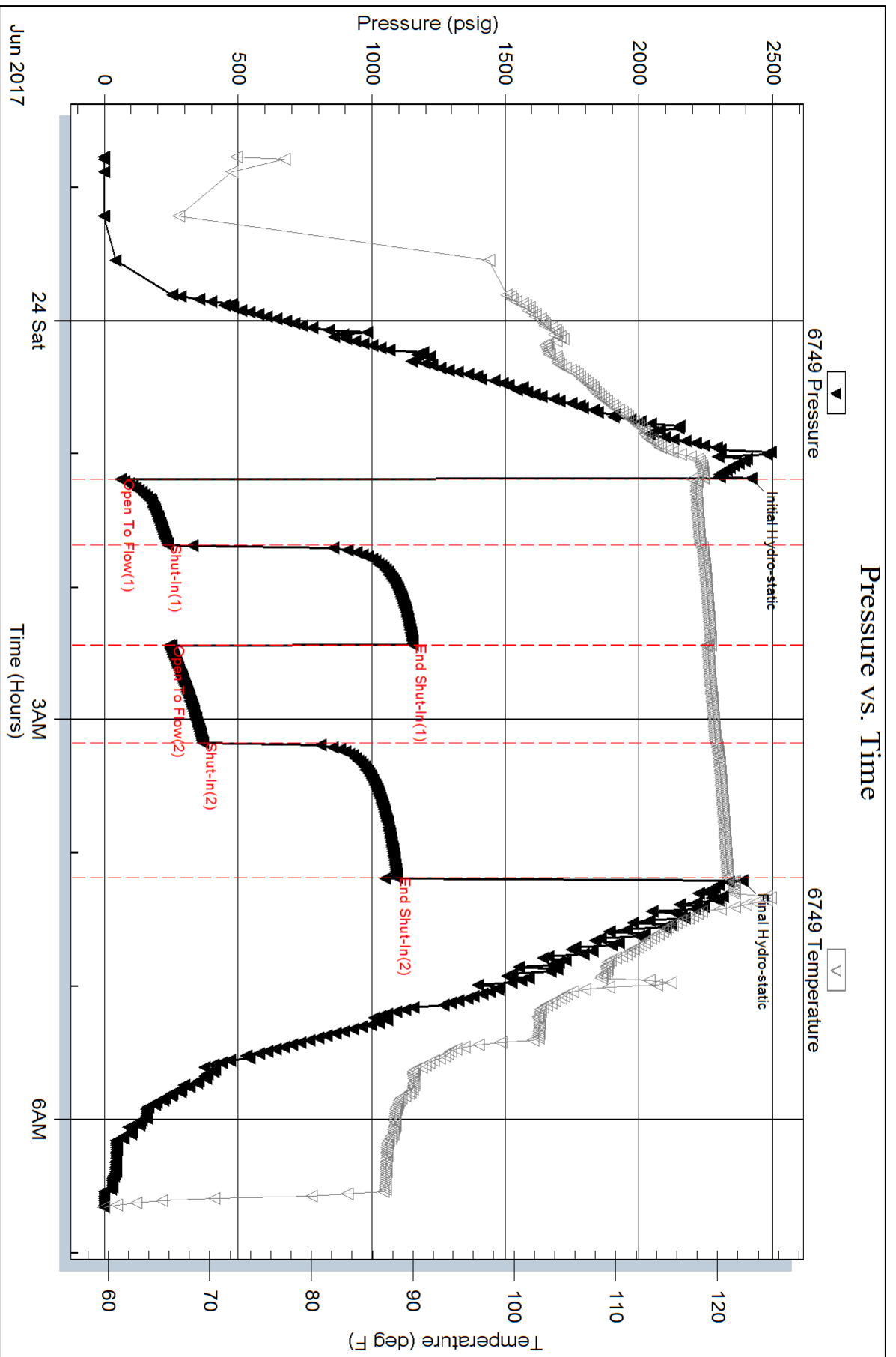
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .409 @ 53.2\*= 25,000 ppm



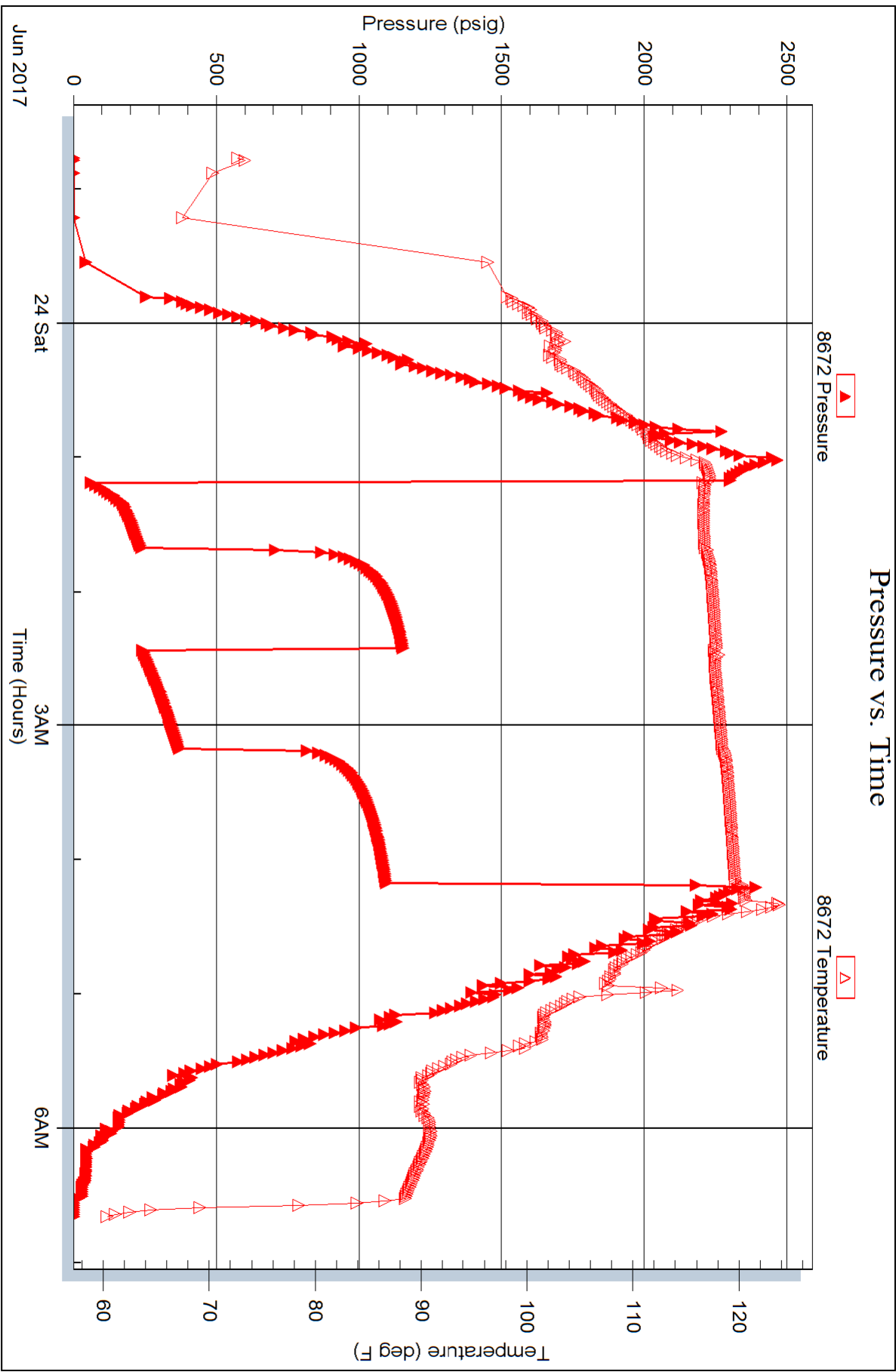
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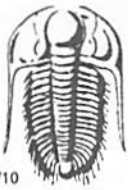
Inside

Shakespeare Oil Co.

Scott Community #1-3

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63745**

Well Name & No. Scott Community 1-3 Test No. 1 Date 6-21-17  
 Company Shakespeare Oil & Gas Co Elevation 3094 KB 3083 GL  
 Address 202 W. Main St. Salem IL 62881  
 Co. Rep / Geo. Tim Priest Rig Duke 5  
 Location: Sec. 3 Twp. 16 Rge. 34 Co. Scott State KS

Interval Tested 4392-4465 Zone Tested Marmaton A-B  
 Anchor Length 73 Drill Pipe Run ~~4113~~ 4165 Mud Wt. 9.3  
 Top Packer Depth 4387 Drill Collars Run ~~870~~ 233 Vis 63  
 Bottom Packer Depth 4392 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4465 Chlorides 4400 ppm System LCM 2  
 Blow Description IF: BOB in 4 Min  
IS: BOB in 28 Min Died to 7"  
FF: BOB in 1 Min  
FS: Built to 6" + Died in 20 Min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>562</u>	<u>gco</u>	<u>30</u>	<u>70</u>		
<u>682</u>	<u>gco</u>	<u>20</u>	<u>80</u>		
<u>233</u>	<u>gcom (collars)</u>	<u>10</u>	<u>20</u>	<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1477 BHT 118 Gravity 31 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2278  Test #1150.00/- T-On Location 19:00  
 (B) First Initial Flow 135  Jars — T-Started 20:47  
 (C) First Final Flow 362  Safety Joint — T-Open 23:00  
 (D) Initial Shut-In 1242  Circ Sub NC T-Pulled 02:45  
 (E) Second Initial Flow 392  Hourly Standby — T-Out 06:07  
 (F) Second Final Flow 597  Mileage 56RT = #42.00/- Comments —  
 (G) Final Shut-In 1218  Sampler —  
 (H) Final Hydrostatic 2224  Straddle —  Ruined Shale Packer —  
 Shale Packer #250.00/-  Ruined Packer —  
 Extra Packer —  Extra Copies —  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1442  
 Accessibility — MP/DST Disc't —  
 Sub Total #1442.00/-

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 45  
 Final Shut-In 90

Approved By \_\_\_\_\_ Our Representative Mike Roberts

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63746**

Well Name & No. Scott Community 1-3 Test No. 2 Date 6-22-17  
 Company Shakespeare Oil & Gas Co Elevation 3094 KB 3083 GL  
 Address 202 W Main St Salem IL 62881  
 Co. Rep / Geo. Tim Priest Rig Duke 5  
 Location: Sec. 3 Twp. 16 Rge. 34 Co. Scott State KS

Interval Tested 4456-4510 Zone Tested B-C  
 Anchor Length 44 Drill Pipe Run 4211 Mud Wt. 9.3  
 Top Packer Depth 4451 Drill Collars Run 233 Vis 6.3  
 Bottom Packer Depth 4456 Wt. Pipe Run Ø WL 11.2  
 Total Depth 4510 Chlorides 8800 ppm System LCM 2  
 Blow Description IF: Built to 1 1/2" Blow & Died in 25 Min  
IS: No Return Blow  
FF: No Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</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

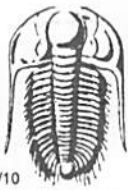
Rec Total 100 BHT 115  
 (A) Initial Hydrostatic 2235  
 (B) First Initial Flow 62  
 (C) First Final Flow 97  
 (D) Initial Shut-In 856  
 (E) Second Initial Flow 101  
 (F) Second Final Flow 107  
 (G) Final Shut-In 139  
 (H) Final Hydrostatic 2193

Gravity            API RW            @            ° F Chlorides            ppm  
 Test \$1150.00/- T-On Location 16:41  
 Jars            T-Started 17:02  
 Safety Joint            T-Open 18:58  
 Circ Sub NC T-Pulled 20:58  
 Hourly Standby            T-Out 22:48  
 Mileage 56 RT = \$42.00/- Comments             
 Sampler             
 Straddle             Ruined Shale Packer             
 Shale Packer             Ruined Packer             
 Extra Packer             Extra Copies             
 Extra Recorder            Sub Total 0  
 Day Standby            Total 1442  
 Accessibility            MP/DST Disc't             
 Sub Total \$1442.00/-

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Approved By            Our Representative White Robots

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63747**

Well Name & No. SCOTT Community 1-3 Test No. 3 Date 6-23-17  
 Company Shakespeare Oil & Gas Co Elevation 3094 KB 3083 GL  
 Address 202 W. Main St Salem IL 62881  
 Co. Rep / Geo. Tim Priest Rig Duke 5  
 Location: Sec. 3 Twp. 16 Rge. 34 Co. SCOTT State KS

Interval Tested 4631-4710 Zone Tested Johnson  
 Anchor Length 79 Drill Pipe Run 4403 Mud Wt. 9.4  
 Top Packer Depth 4626 Drill Collars Run 233 Vis 53  
 Bottom Packer Depth 4631 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4710 Chlorides 9200 ppm System LCM 1  
 Blow Description IF: BOB in 11 Min.  
IS: No Return Blow  
FF: BOB in 17 Min  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>340</u>	<u>WCOM</u>	<u>3</u>	<u>2</u>	<u>95</u>	
<u>124</u>	<u>OCMW</u>	<u>3</u>	<u>84</u>	<u>13</u>	
<u>233</u>	<u>OCMW (COLLARS)</u>	<u>2</u>	<u>78</u>	<u>20</u>	

Rec Total 697 BHT 121 Gravity — API RW 409 @ 53.7° F Chlorides 25000 ppm  
 (A) Initial Hydrostatic 2418  Test \$1150.00/- T-On Location 22:05  
 (B) First Initial Flow 61  Jars \_\_\_\_\_ T-Started 22:46  
 (C) First Final Flow 237  Safety Joint \_\_\_\_\_ T-Open 01:11  
 (D) Initial Shut-In 1152  Circ Sub NC T-Pulled 04:11  
 (E) Second Initial Flow 249  Hourly Standby \_\_\_\_\_ T-Out 06:40  
 (F) Second Final Flow 368  Mileage SHORT = \$42.00/- Comments Load tools  
 (G) Final Shut-In 1093  Sampler x 2 at 16:00 on 25th  
 (H) Final Hydrostatic 2386  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total \$1442.00/- Sub Total 0  
 Total 1484  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Mike Rold

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.  
202 W Main St.  
Salem IL  
62881  
ATTN: Tim Priest

**3-16-34 Scott Co KS**

**Scott Community 1-3**

Job Ticket: 63746

**DST#: 2**

Test Start: 2017.06.22 @ 17:02:15

## GENERAL INFORMATION:

Formation: **B-C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:57:30  
 Time Test Ended: 22:48:30  
 Interval: **4456.00 ft (KB) To 4510.00 ft (KB) (TVD)**  
 Total Depth: 4510.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 81  
 Reference Elevations: 3094.00 ft (KB)  
 3083.00 ft (CF)  
 KB to GR/CF: 11.00 ft

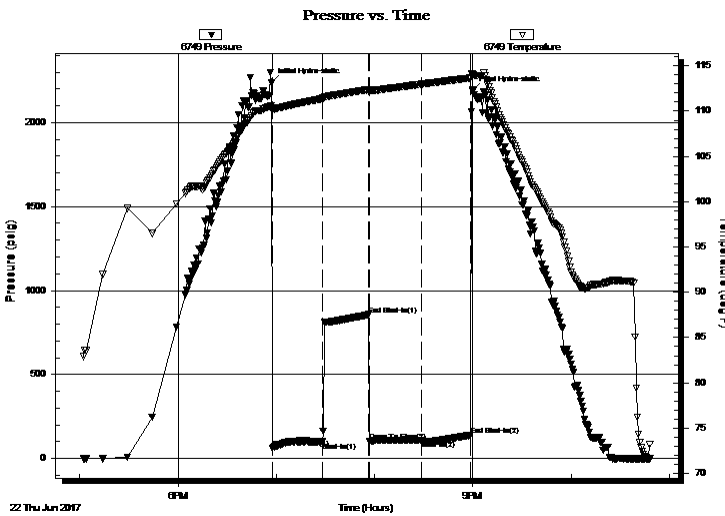
## Serial #: 6749

Outside

Press@RunDepth: 107.45 psig @ 4495.00 ft (KB)  
 Start Date: 2017.06.22 End Date: 2017.06.22  
 Start Time: 17:02:15 End Time: 22:48:30  
 Capacity: 8000.00 psig  
 Last Calib.: 1899.12.30  
 Time On Btm: 2017.06.22 @ 18:57:00  
 Time Off Btm: 2017.06.22 @ 20:59:45

TEST COMMENT: IF: Built to 1 1/2" blow died in 25 min.  
 IS: No return blow  
 FF: No blow  
 FS: No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2235.17	110.63	Initial Hydro-static
1	62.28	110.05	Open To Flow (1)
32	97.14	111.38	Shut-In(1)
60	856.61	112.38	End Shut-In(1)
60	101.10	112.05	Open To Flow (2)
92	107.45	112.98	Shut-In(2)
122	139.06	113.66	End Shut-In(2)
123	2193.09	114.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	mud 100% m	0.89

\* 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.

**3-16-34 Scott Co KS**

202 W Main St.  
Salem IL  
62881

**Scott Community 1-3**

Job Ticket: 63746

**DST#: 2**

ATTN: Tim Priest

Test Start: 2017.06.22 @ 17:02:15

## 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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	mud 100%m	0.885

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

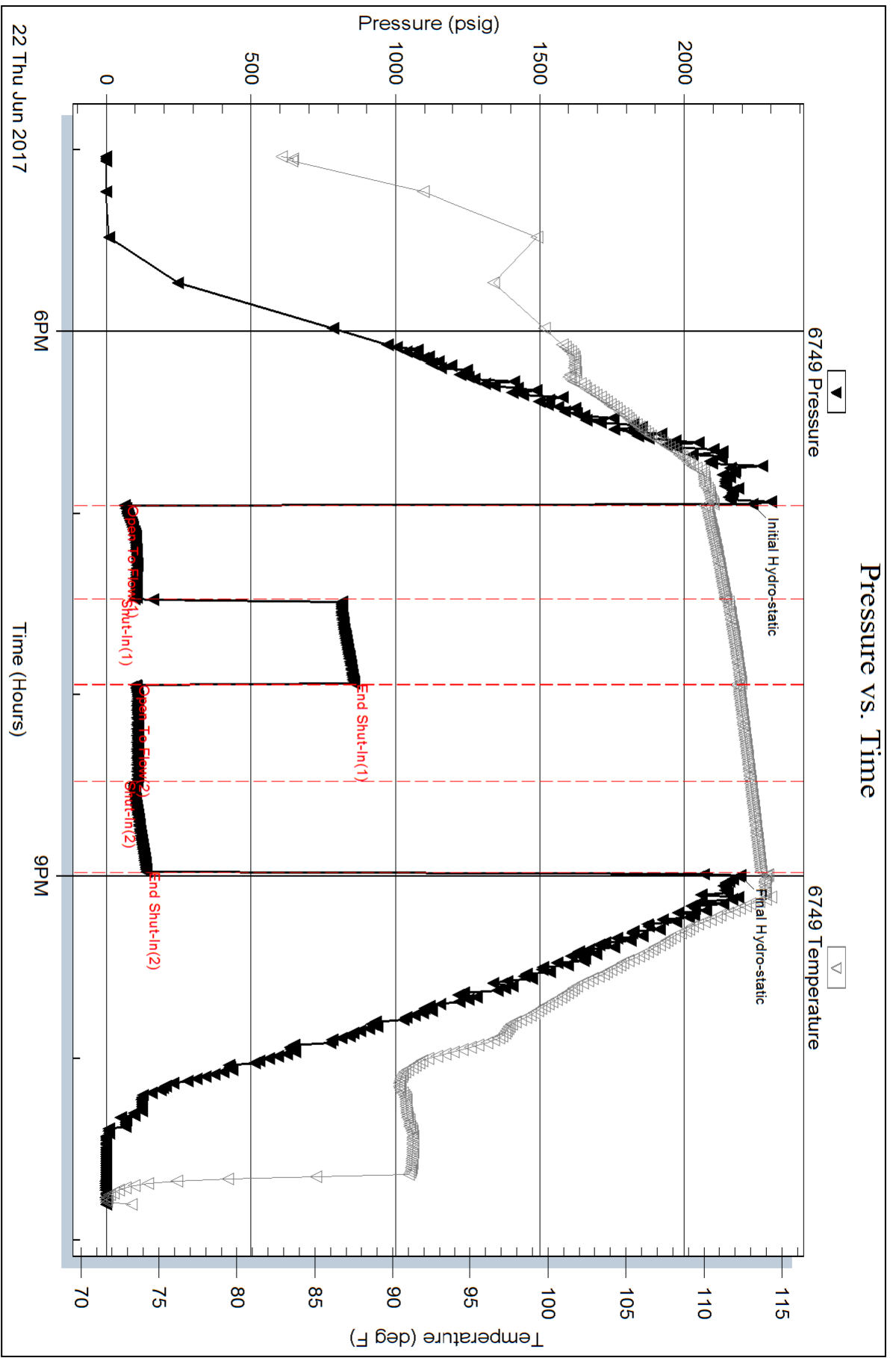
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



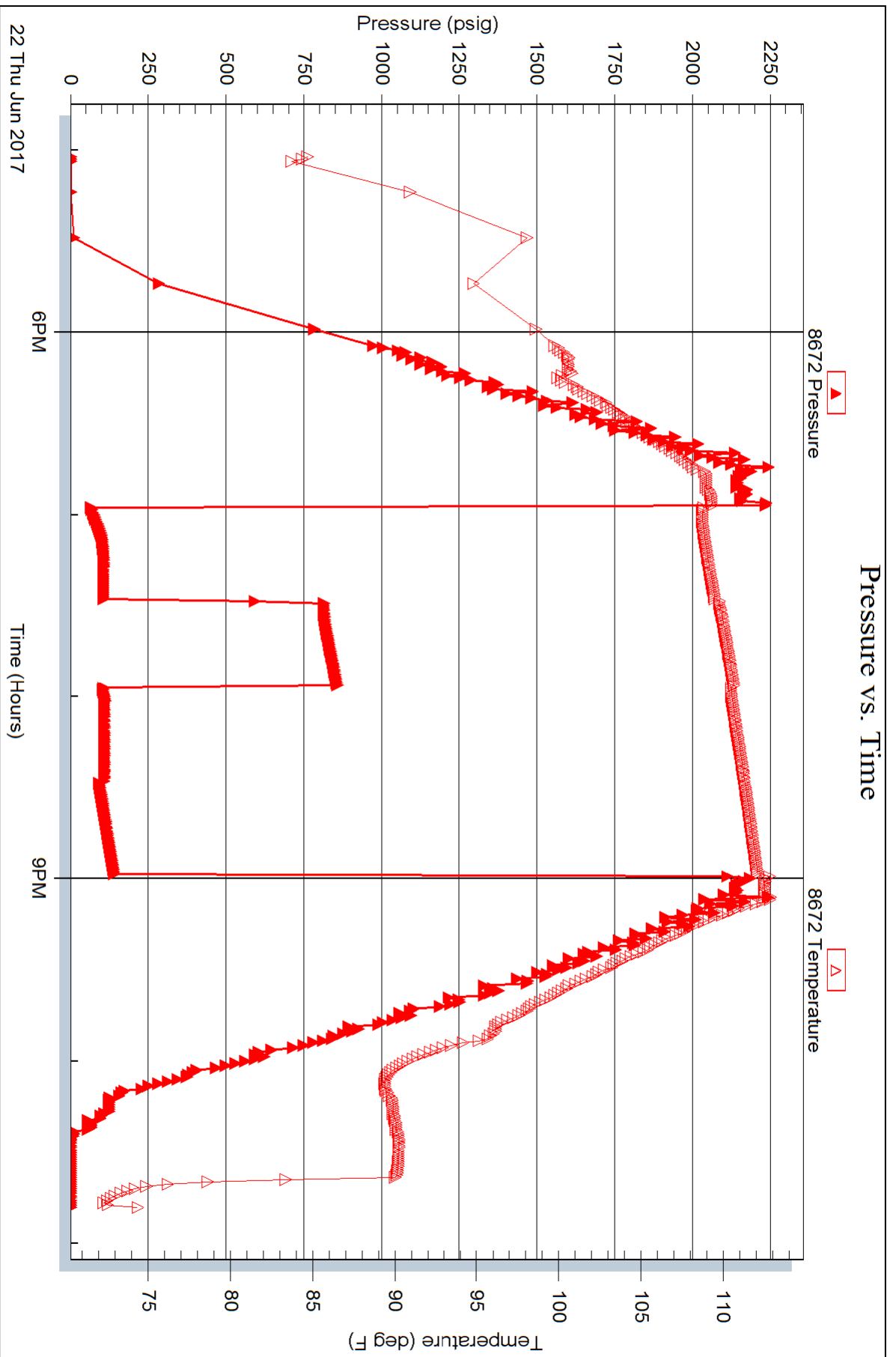
Serial #: 8672

Inside

Shakespeare Oil Co.

Scott Community 1-3

DST Test Number: 2





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil Co.  
202 W Main St.  
Salem IL  
62881  
ATTN: Tim Priest

**3-16-34 Scott Co KS**

**Scott Community 1-3**

Job Ticket: 63747

**DST#: 3**

Test Start: 2017.06.23 @ 22:46:15

## GENERAL INFORMATION:

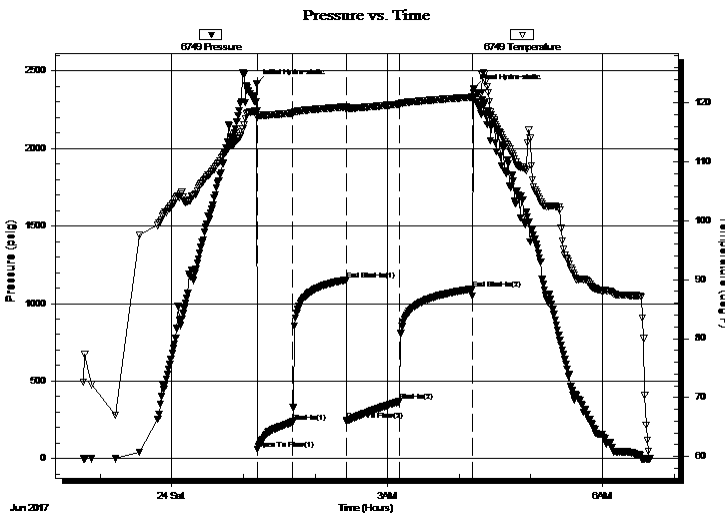
Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:11:15  
 Time Test Ended: 06:40:00  
 Interval: **4631.00 ft (KB) To 4710.00 ft (KB) (TVD)**  
 Total Depth: 4710.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 81  
 Reference Elevations: 3094.00 ft (KB)  
 3083.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 6749 Outside**

Press@RunDepth: 368.16 psig @ 4705.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.06.23 End Date: 2017.06.24 Last Calib.: 2017.06.24  
 Start Time: 22:46:15 End Time: 06:40:00 Time On Btm: 2017.06.24 @ 01:11:00  
 Time Off Btm: 2017.06.24 @ 04:12:15

TEST COMMENT: IF:BOB in 11 min.  
 IS:No return blow  
 FF:BOB in 17 min.  
 FS:No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2418.34	118.68	Initial Hydro-static
1	61.17	117.50	Open To Flow (1)
30	237.30	118.29	Shut-In(1)
75	1152.69	119.36	End Shut-In(1)
75	249.22	118.87	Open To Flow (2)
120	368.16	119.80	Shut-In(2)
180	1093.48	120.99	End Shut-In(2)
182	2386.03	121.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
233.00	ocmw 2%o 20%m 78%w (collars)	1.15
124.00	ocmw 3%o 13%m 84%w	1.74
340.00	w com 2%w 3%o 95%m	4.77

\* 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.  
202 W Main St.  
Salem IL  
62881  
ATTN: Tim Priest

**3-16-34 Scott Co KS**  
**Scott Community 1-3**  
Job Ticket: 63747      **DST#: 3**  
Test Start: 2017.06.23 @ 22:46:15

**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:	25000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9200.00 ppm			
Filter Cake: 1.00 inches			

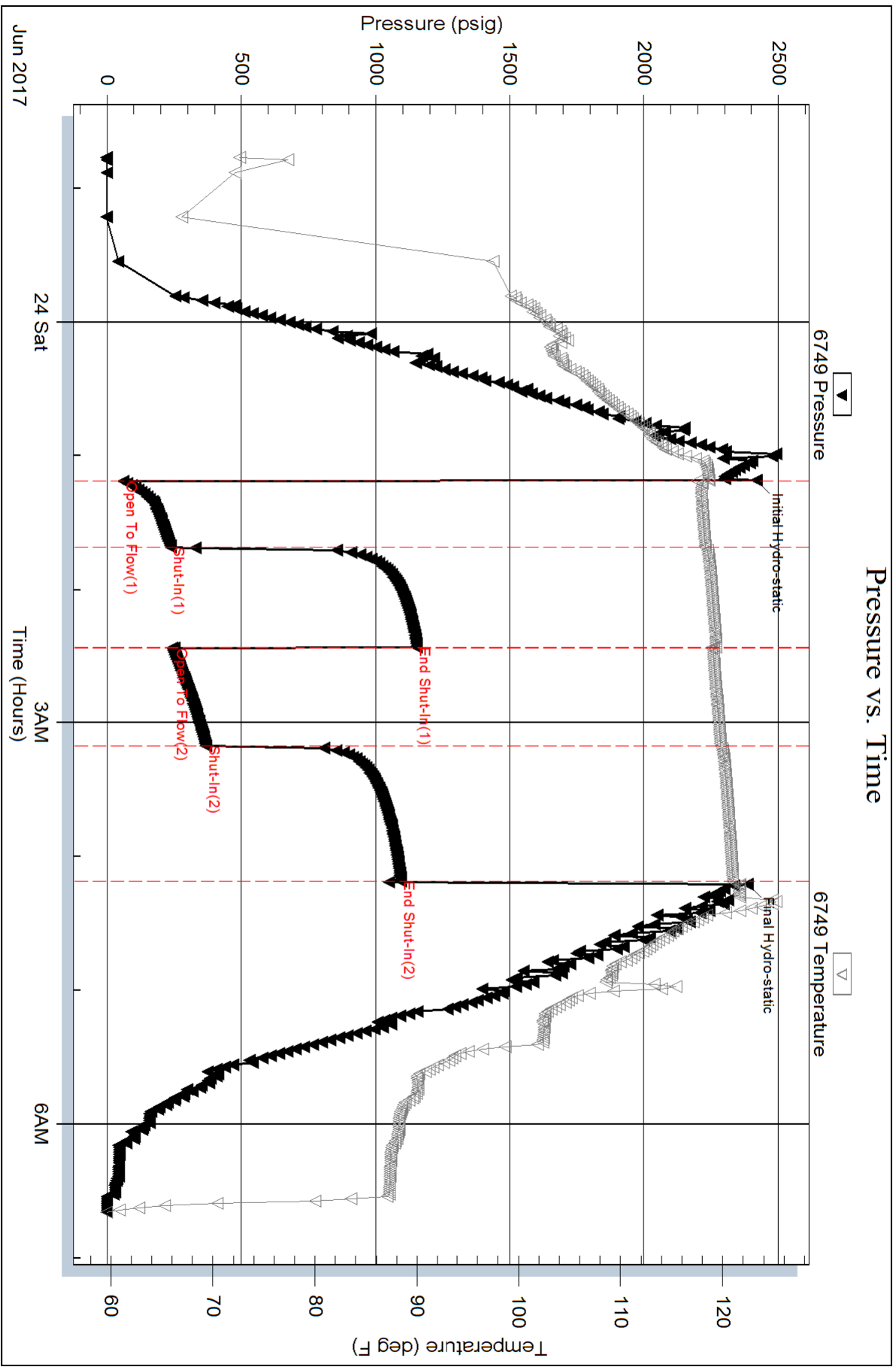
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
233.00	ocmw 2%o 20%m 78%w (collars)	1.146
124.00	ocmw 3%o 13%m 84%w	1.739
340.00	w com 2%w 3%o 95%m	4.769

Total Length: 697.00 ft      Total Volume: 7.654 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW= .409 @ 53.2\*= 25,000 ppm





Serial #: 8672

Inside

Shakespeare Oil Co.

Scott Community 1-3

DST Test Number: 3

