

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	GOERING 1-5
Doc ID	1362122

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	GOERING 1-5
Doc ID	1362122

Tops

Name	Top	Datum
Base Anhydrite	2262	+689
Heebner	3964	-1013
Lansing	4008	-1057
Muncie Creek	4193	-1242
Stark Shale	4307	-1356
Hushpuckney	4344	-1393
Marmaton	4433	-1482
Pawnee	4516	-1565
L. Cherokee Shale	4581	-1630
Mississippian	4648	-1697



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



Invoice

DATE	INVOICE #
7/13/2017	30702

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

RECEIVED

JUL 21 2017

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-5	Goering	Lane	Duke Drilling Rig ...	Oil	Development	Cement 8 5/8 Sur...	David K.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	5.00	250.00
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				404	Ton Miles	0.75	303.00
	Subtotal							4,060.75
Customer Disc...	Customer Discount Per Ted						-10.00%	-406.08
	Subtotal							3,654.67
	Sales Tax Lane County						7.50%	166.07
We Appreciate Your Business!							Total	\$3,820.74

INT

10502-S
KW

DW



CHARGE TO: Shakespeare O-11
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 30702

WELL/PROJECT NO. A-1-5 LEASE Goering COUNTY/PARISH Leone STATE KS CITY Amy DATE 7-13-17 OWNER Same

PAGE 1 OF 1

1. Ness City KS TICKET TYPE SERVICE CONTRACTOR Drake Drilling RIG NAME NO. A-5 SHIPPED VIA ACT DELIVERED TO Location ORDER NO.
 2. WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cement 8 3/8" Surface Pipe WELL PERMIT NO. WELL LOCATION Amy - 85, 2wy 1345 inks
 3. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE FERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					TK # 112			50	mi		5.00	250.00
576.5					Pump Charge - Shallow Surface	8 3/8 in		1	job		800.00	800.00
325					Standard Cement			165	slks		12.25	2021.25
278					Calcium Chloride			3	9%	7	40.00	280.00
279					Bentonite Gel			2	1%	3	25.00	75.00
290					D-Air			2	gal		42.00	84.00
381					Service Charge Cement			165	slks		1.50	247.50
583					Drayage			16160	llbs	404	00.75	303.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.
 MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS
 DATE SIGNED 7-13-17 TIME SIGNED 2130 A.M. P.M.

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 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?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	TAX	TOTAL
4060.75	102.25	4163.00
102.25	166.07	262.32
		3890.94

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

JOB LOG

SWIFT Services, Inc.

DATE 7-13-17 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Shelbourn Oil		#1-5		Goering		Surface		#30702	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	2100							on location	8 5/8" 23"
								RTD - 270'	TP - 265'
	2140							Start 8 5/8" 23" casing in well	
	2240							Break Circulation	
	2250	4 1/2	5		✓	200		Pump 5HJ water Spacer	
	2255	4 1/2	40		✓	100		mix 165 sls STD 2% Gel 3% cc @ 14.7 ppv	
								wash out pump + lines	
	2310	4 1/2	Ø		✓	100		Displace Cement	
		4 1/2	11		✓	100		circulate cement to surface	
								* 20 sls *	
	2315	Ø	16		✓	200		kick out Pump	
								Shut in	
								Release Pressure * valve Hold *	
								wash up truck	
	1145							Job Complete	

Thank You
Dave Preston Kirby



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



Invoice

DATE	INVOICE #
7/22/2017	30561

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	#1-5	Goering	Lane	Duke Drilling Rig ...	Oil	Development	PTA	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	5.00	250.00
576D-P	Pump Charge - PTA				1	Job	800.00	800.00
328-4	60/40 Pozmix (4% Gel)				300	Sacks	10.25	3,075.00T
276	Flocele				75	Lb(s)	2.25	168.75T
290	D-Air				2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement				300	Sacks	1.50	450.00
583D	Drayage				627.75	Ton Miles	0.75	470.81
	Subtotal							5,298.56
Customer Disc...	Customer Discount Per Ted						-10.00%	-529.86
	Subtotal							4,768.70
	Sales Tax Lane County						7.50%	224.62
We Appreciate Your Business!							Total	\$4,993.32

INT
PTA

RECEIVED
JUL 28 2017

10502-17

DW



TICKET 30561

CHARGE TO: Shalespace
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

PAGE 1 OF 1

1. SERVICE LOCATIONS: Ness City KS WELLP/PROJECT NO. 1-5 LEASE Evening COUNTY/PARISH Lane STATE KS DATE 22 July 17 OWNER _____
 2. TICKET TYPE: SERVICE CONTRACTOR _____ RIG NAME/NO. 5 SHIPPED WET DELIVERED TO Location ORDER NO. _____
 3. WELLP/PROJECT NO. oil WELLP/PROJECT NO. PTA WELLP/PROJECT NO. 5-20-30 WELLP/PROJECT NO. _____
 4. REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575					TRK 114	50	mi.				5.00	350.00
576 P					Pump Charge	1	ea				800.00	800.00
328-4					12/40 Pozmix (40% gel)	300	sk				10.25	3075.00
276					Flackback Florida	75	lb				2.25	168.75
290					D-Air	300	sk				42.00	84.00
581					Service charge	25	110	lb			1.50	45.00
583					Drayage	25	110	lb			6.75	470.81

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: _____ TIME SIGNED: _____
 A.M. P.M.
 X _____

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?
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 5298.56
 TOTAL: 4993.32

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

JOB LOG

SWIFT Services, Inc.

DATE 22 Jul 17 PAGE NO. 1

CUSTOMER Shakespeare WELL NO. 1-5 LEASE Goering JOB TYPE Plug to Abandon TICKET NO. 30561

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								300 sk 60/40 (4% gel) w/ 1/4" Floccle 4 1/2" drill pipe 50 sk - 2250' 80 sk - 1530' 50 sk - 750' 50 sk - 300' 20 sk - 60' 30/20 - RH - MH
	0930							On loc TRK 114
	0951							circulate well
	1000	3 1/2	13			150		mix 50 sk 60/40 (4%) @ 13.1 ppg Displace to 2250' pull to 1530'
	1045	3 1/2	21			150		mix 80 sk 60/40 (4%) @ 13.1 ppg Displace to 1530' pull to 750'
	1057							
	1057							
	1128	3 1/2	13			100		mix 50 sk 60/40 (4%) @ 13.1 ppg Displace to 750' pull to 300'
	1146							
	1220	3 1/2	13			100		mix 50 sk 60/40 (4%) @ 13.1 ppg Displace to 300' pull to 60'
	1235	2 1/2	6			∅		mix 20 sk 60/40 (4%) @ 13.1 ppg — cement standing @ surface —
	1245		11					Plug RH / MH 20 sk 20 sk
	1300							wash truck Rack up job complete
	1345							

{ 300 sk total }

Thanks
Blaine, Flint, & Russell



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co

5-20-30 Lane Ks

202 W Main St
Salem, IL 62881

Goering 1-5

ATTN: Tim Priest

Job Ticket: 63855

DST#: 1

Test Start: 2017.07.18 @ 14:31:36

GENERAL INFORMATION:

Formation: **L**
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: 16:18:06 Tester: **Brandon Turley**
 Time Test Ended: 20:59:36 Unit No: **79**

Interval: 4330.00 ft (KB) To 4365.00 ft (KB) (TVD) Reference Elevations: **2950.00 ft (KB)**
 Total Depth: **4365.00 ft (KB) (TVD)** **2940.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **10.00 ft**

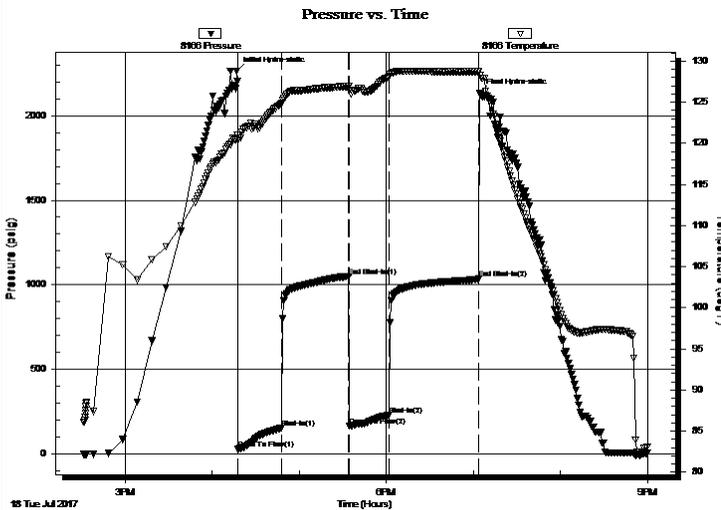
Serial #: 8166

Outside

Press@RunDepth: 231.47 psig @ 4331.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.07.18 End Date: 2017.07.18 Last Calib.: 2017.07.18
 Start Time: 14:31:41 End Time: 20:59:35 Time On Btm: 2017.07.18 @ 16:17:06
 Time Off Btm: 2017.07.18 @ 19:04:36

TEST COMMENT: IF: BOB in 23 min.
 IS: No return.
 FF: Surface blow built to 9 in 30 min.
 FS: No return.

PRESSURE SUMMARY



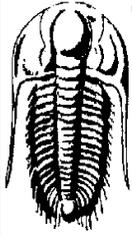
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.86	120.65	Initial Hydro-static
1	26.53	120.44	Open To Flow (1)
31	152.75	124.85	Shut-In(1)
77	1049.20	126.89	End Shut-In(1)
78	163.91	126.46	Open To Flow (2)
105	231.47	128.10	Shut-In(2)
167	1034.71	128.71	End Shut-In(2)
168	2131.08	128.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	mcw 90%w 10%m	1.42
229.00	w cm 30%w 70%m	3.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

5-20-30 Lane Ks

202 W Main St
Salem, IL 62881

Goering 1-5

Job Ticket: 63855

DST#: 1

ATTN: Tim Priest

Test Start: 2017.07.18 @ 14:31:36

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:

38000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
252.00	mcw 90%w 10%m	1.421
229.00	w cm 30%w 70%m	3.212

Total Length: 481.00 ft Total Volume: 4.633 bbf

Num Fluid Samples: 0

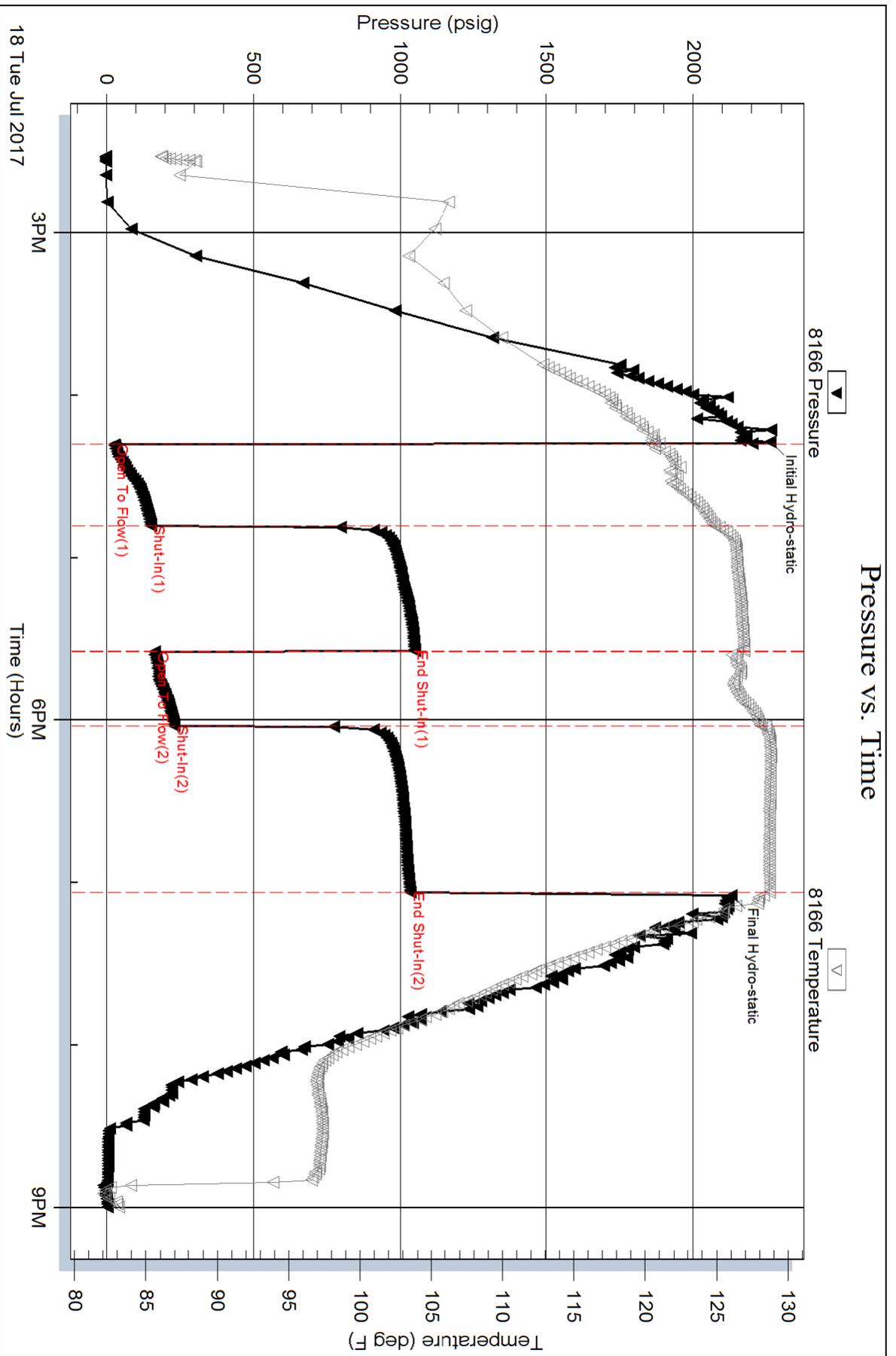
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .14@93=38000



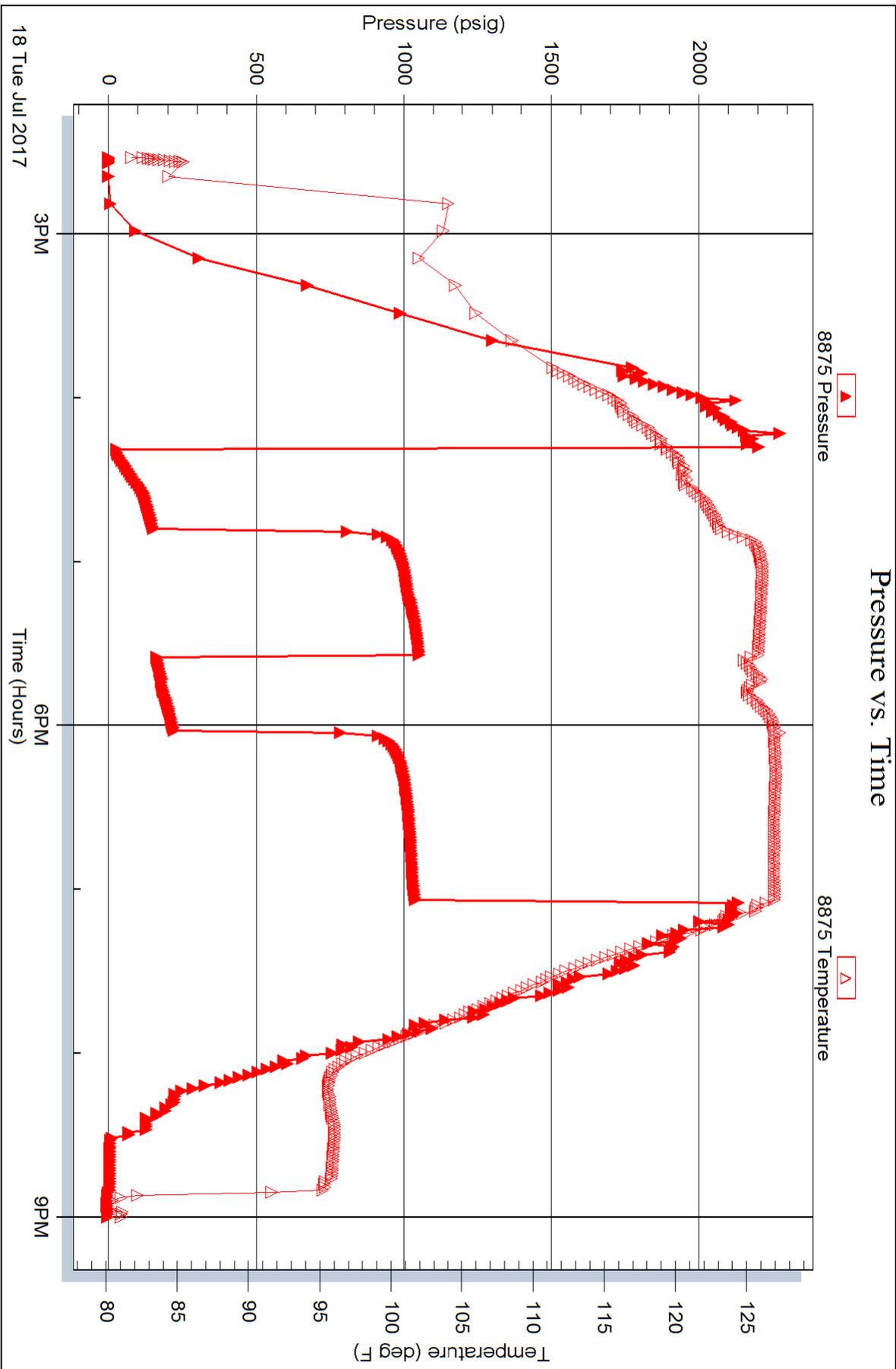
Serial #: 8875

Inside

Shakespeare Oil Co

Goering 1-5

DST Test Number: 1

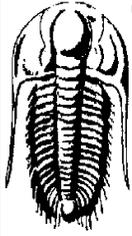


18 Tue Jul 2017

3PM

6PM

9PM



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

5-20-30 Lane Ks

202 W Main St
Salem, IL 62881

Goering 1-5

Job Ticket: 63856

DST#: 2

ATTN: Tim Priest

Test Start: 2017.07.19 @ 11:25:55

GENERAL INFORMATION:

Formation: **Marmaton B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:46:55

Time Test Ended: 20:26:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4445.00 ft (KB) To 4470.00 ft (KB) (TVD)

Reference Elevations: 2950.00 ft (KB)

Total Depth: 4470.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 435.35 psig @ 4450.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.19

End Date: 2017.07.19

Last Calib.: 2017.07.19

Start Time: 11:26:00

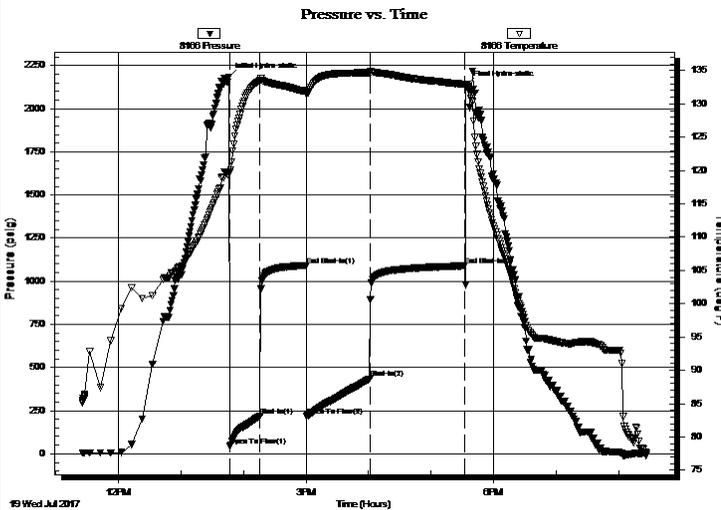
End Time: 20:26:25

Time On Btm: 2017.07.19 @ 13:45:55

Time Off Btm: 2017.07.19 @ 17:33:25

TEST COMMENT: IF: BOB in 9 min.
IS: No return.
FF: BOB in 11 min.
FS: Weak surface blow.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.99	119.76	Initial Hydro-static
1	44.27	119.69	Open To Flow (1)
30	217.84	133.51	Shut-In(1)
75	1091.97	131.85	End Shut-In(1)
75	217.29	131.48	Open To Flow (2)
136	435.35	134.67	Shut-In(2)
227	1089.33	132.94	End Shut-In(2)
228	2137.38	133.02	Final Hydro-static

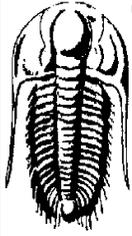
Recovery

Length (ft)	Description	Volume (bbl)
378.00	mcw 90%w 10%m	3.19
189.00	ocmw 5%o 65%w 30%m	2.65
252.00	ogcmw 20%g 30%o 30%w 20%m	3.53
252.00	go 10%g 90%o	3.53
0.00	126 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co

5-20-30 Lane Ks

202 W Main St
Salem, IL 62881

Goering 1-5

Job Ticket: 63856

DST#: 2

ATTN: Tim Priest

Test Start: 2017.07.19 @ 11:25:55

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

38000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
378.00	mcw 90%w 10%m	3.189
189.00	ocmw 5%o 65%w 30%m	2.651
252.00	ogcmw 20%g 30%o 30%w 20%m	3.535
252.00	go 10%g 90%o	3.535
0.00	126 GIP	0.000

Total Length: 1071.00 ft Total Volume: 12.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

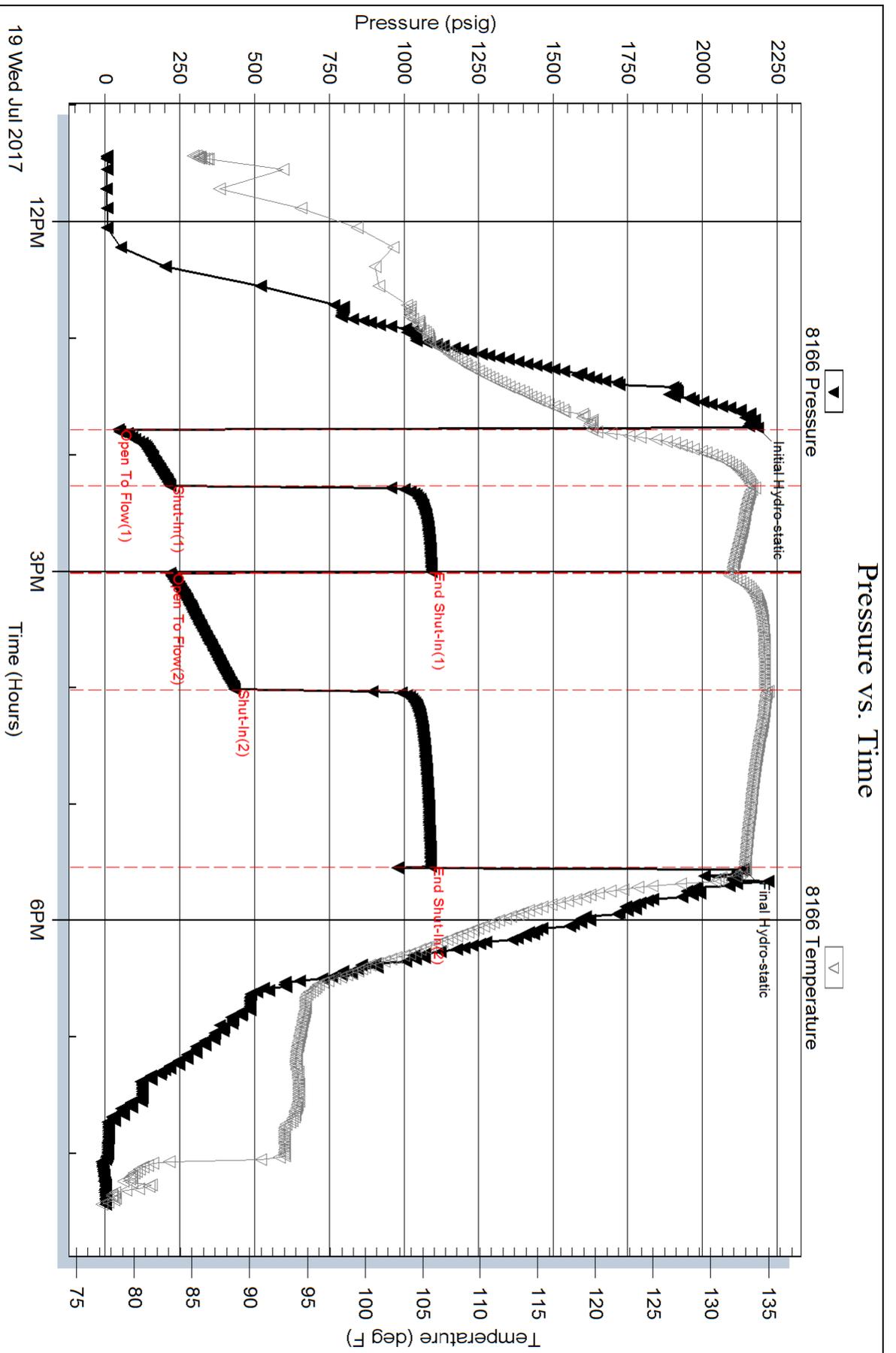
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 38@90=35

.14@93=38000



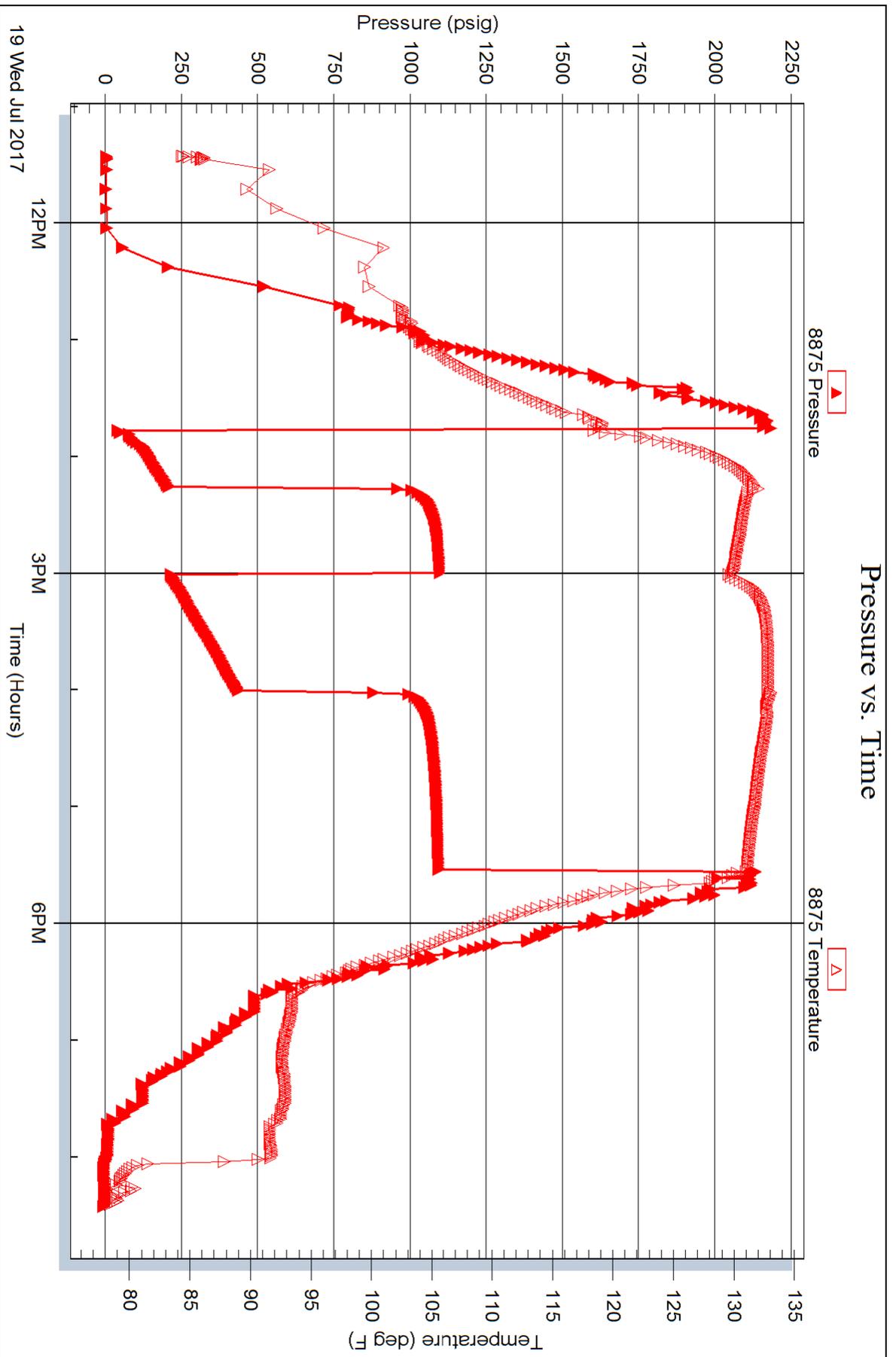
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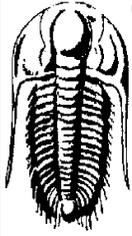
Inside

Shakespeare Oil Co

Goering 1-5

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

5-20-30 Lane Ks

202 W Main St
Salem, IL 62881

Goering 1-5

Job Ticket: 63857

DST#: 3

ATTN: Tim Priest

Test Start: 2017.07.20 @ 17:45:33

GENERAL INFORMATION:

Formation: **FS- JZ**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:40:03

Time Test Ended: 23:35:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: 4559.00 ft (KB) To 4620.00 ft (KB) (TVD)

Reference Elevations: 2950.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2940.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8166 Outside

Press@RunDepth: 19.21 psig @ 4564.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.20 End Date: 2017.07.20

Last Calib.: 2017.07.20

Start Time: 17:45:38 End Time: 23:35:02

Time On Btm: 2017.07.20 @ 19:38:33

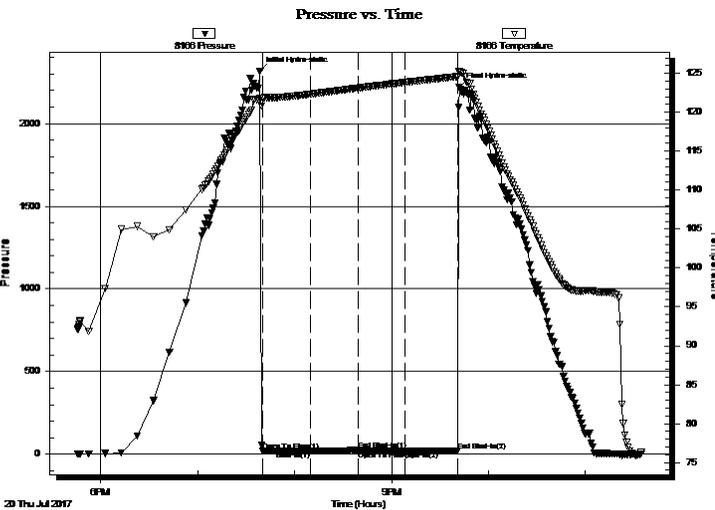
Time Off Btm: 2017.07.20 @ 21:42:03

TEST COMMENT: IF: 1/4 blow died in 12 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2317.89	121.82	Initial Hydro-static
2	22.01	121.75	Open To Flow (1)
31	19.85	122.32	Shut-In(1)
61	23.46	123.11	End Shut-In(1)
61	19.14	123.12	Open To Flow (2)
90	19.21	123.85	Shut-In(2)
123	20.90	124.59	End Shut-In(2)
124	2222.55	125.30	Final Hydro-static

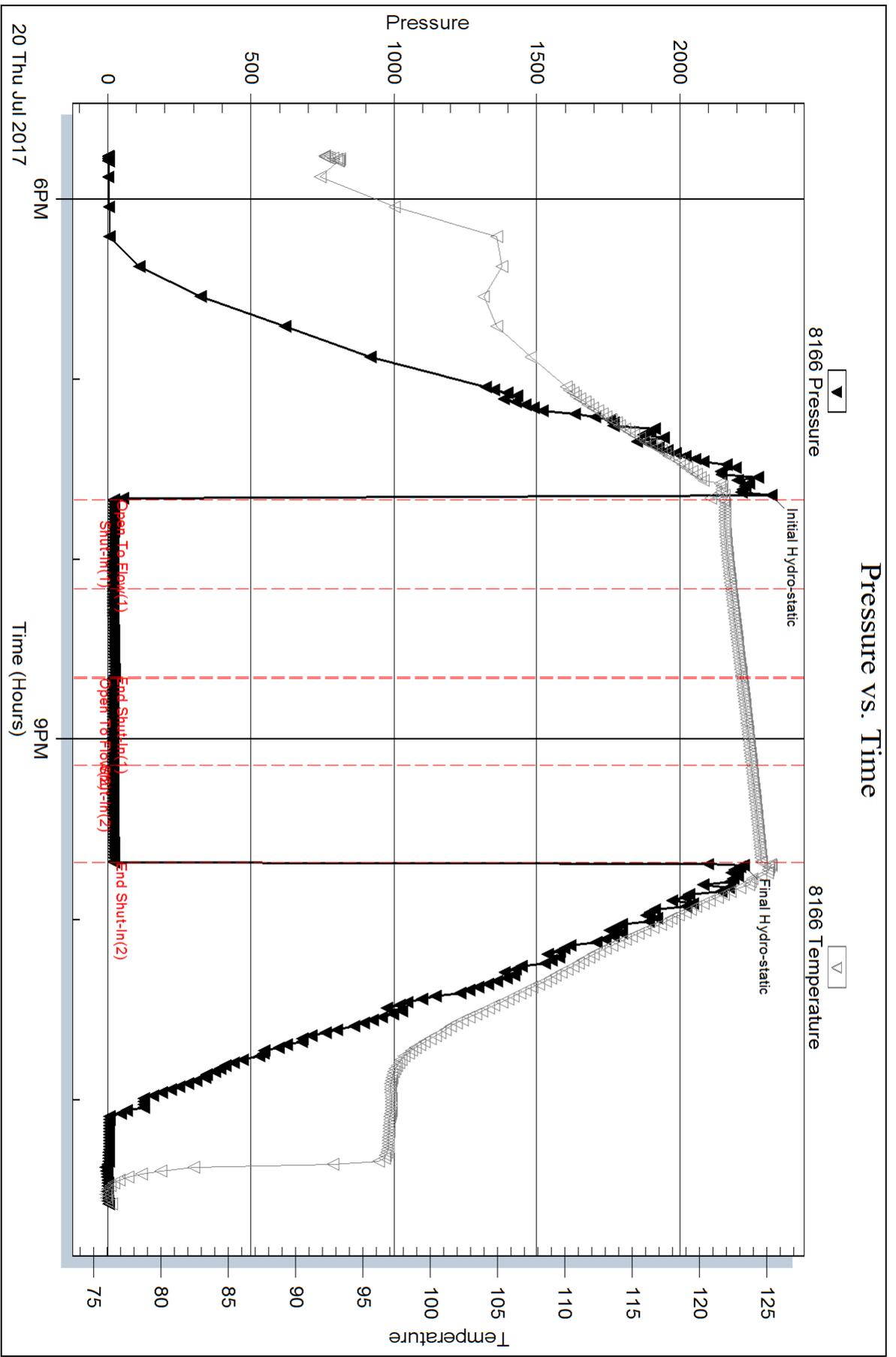
Recovery

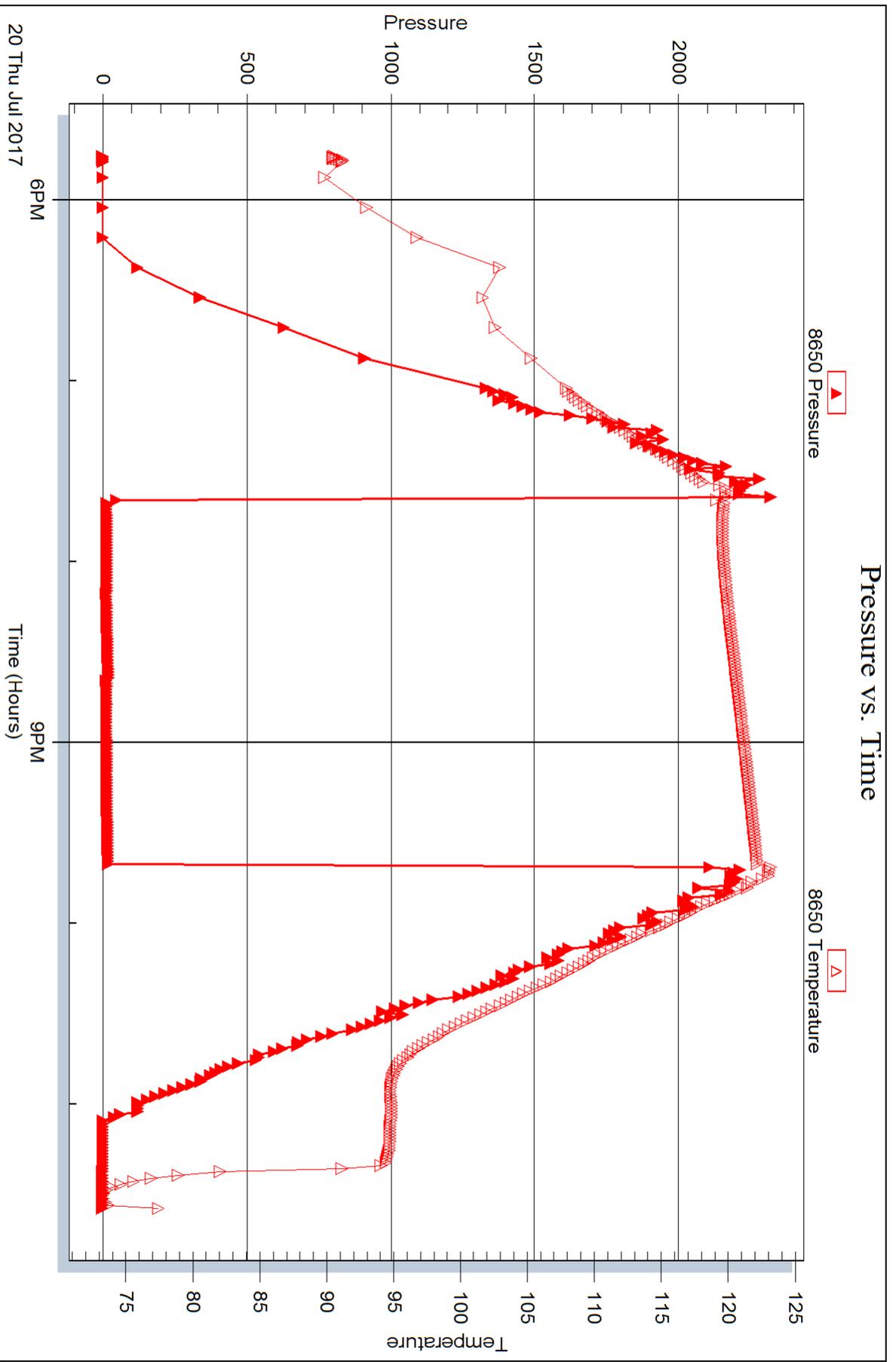
Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

* Recovery from multiple tests

Gas Rates

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



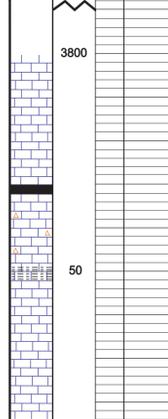


GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPEARE OIL CO., INC** ELEVATIONS
 LEASE **Groening L-5** KB 2951'
 FIELD **_____** DF _____
 LOCATION **LS807 FMS, 360' FEI** GL **2940'**
 SEC **5** TMS **20S** RFE **30W**
 COUNTY **Lane** STATE **Kansas** Measurements Are All From **KB**
 CONTRACTOR **Duke Drilling Rig 5**
 SPUD **7-13-17** COMP **_____** CASING **_____**
 RTD **4800'** LTD **4802'** CONDUCTION **N/A**
 MUD UP **3500'** TYPE MUD **Chemical** SURFACE **8-5/8" @ 265'**
 SAMPLES SAVED FROM **3800'** TO **RTD** PRODUCTION **None**
 DRILLING TIME KEPT FROM **3700'** TO **RTD** ELECTRICAL **_____**
 SAMPLES EXAMINED FROM **3800'** TO **RTD** SURVEYS **CND/D/SP**
 GEOLOGICAL SUPERVISION FROM **3900'** TO **RTD** GEOLOGIST ON WELL **Tim Priest** Micro: **Some**
 By: **Weatherford**

FORMATION TOPS

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	2244 (+707)	2243 (+708)
Base Anhydrite	2260 (+691)	2260 (+691)
Heebner Shale	3964 (+1013)	3960 (+1009)
Lansing	4008 (+1057)	4006 (+1055)
Stark	4307 (+1356)	4306 (+1355)
B/KC	4390 (+1439)	4388 (+1437)
Fort Scott	4560 (+1609)	4557 (+1606)
Cherokee Shale	4581 (+1630)	4581 (+1630)
Mississippian	4648 (+1697)	4644 (+1693)



REMARKS Due to the negative results of DSTs, it was decided to plug and abandon the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-101-22596
