

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SCHOWALTER 1-7
Doc ID	1361719

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	SCHOWALTER 1-7
Doc ID	1361719

Tops

Name	Top	Datum
Base Anhydrite	2412	+608
Heebner	3952	-932
Lansing	3991	-971
Muncie Creek	4164	-1144
Stark Shale	4262	-1242
Hushpuckney	4306	-1286
Marmaton	4392	-1372
Pawnee	4468	-1448
L. Cherokee Shale	4546	-1526
Johnson	4587	-1567
Mississippian	4680	-1660



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



Invoice

DATE	INVOICE #
6/30/2017	30329

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	#1-7	Schowalter	Scott	Duke Drilling Rig ...	Oil	Development	8 5/8 Surface	Wayne
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				646.4	Ton Miles	0.75	484.80
325	Standard Cement				50	Sacks	12.25	612.50T
278	Calcium Chloride				2	Sack(s)	40.00	80.00T
290	D-Air				1	Gallon(s)	42.00	42.00T
580	Additional Hours (If Circulate More Than 1 Hour)				2	Hours	200.00	400.00T
581D	Service Charge Cement				100	Sacks	1.50	150.00
583D	Drayage				376	Ton Miles	0.75	282.00
	Subtotal							5,959.05
Customer Disc...	Customer Discount Per Ted						-10.00%	-595.91
	Subtotal							5,363.14
	Sales Tax Scott County						8.50%	275.00

INT

RECEIVED
JUL 17 2017

*10502-5
kw*

We Appreciate Your Business!	Total	\$5,638.14
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DW



TICKET 50520

ADDRESS: SWIFTSPARK OIL & GAS
CITY, STATE, ZIP CODE

PAGE 1 OF 2

WELL PROJECTING NO. 1-7
 WELLS: NESS, KS
 CONTRACTOR: SCHWALTER
 TICKET TYPE: SALES
 WELL TYPE: OIL
 COUNTY/PARISH: SCOTT
 RIG NAME/NO.:
 JOB PURPOSE: 8 5/8" SURFACE
 STATE: KS
 CITY: LOCATION
 DATE: 6-30-17
 ORDER NO.: SAME
 WELL LOCATION: S/OAKLEY/KS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACC'T DE	DESCRIPTION	CITY	QTY	UNIT PRICE	AMOUNT
575		1		MILEAGE # 112	80 MI		\$5.00	400.00
575		1		PUMP CHARGE - SHALLOW SURFACE	1.000	265 FT	800.00	800.00
325		1		STANDARD CEMENT	165 SK		12.25	2021.25
293		1		CALCIUM CHLORIDE	17 SK		40.00	280.00
279		1		BENTONITE GEL	3 SK		25.00	75.00
290		1		N-APD	2 GAL		42.00	84.00
581		1		SEALING CHARGE CEMENT	165 SK		1.50	247.50
583		1		DRAYAGE	16160 LBS	446.4 TONS	75	484.80

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 PART OF WORK OR DELIVERY OF GOODS

Kenneth Malone
 TIME SIGNED: 6-30-17 20:30

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

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	DIS-AGREE	PAGE TOTAL	4392.55
WE UNDERSTOOD AND MET YOUR NEEDS?	Agree			
PERFORMED WITHOUT DELAY?	Agree			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?	Agree			
ARE YOU SATISFIED WITH OUR SERVICE?	Yes	No	TOTAL	4392.55

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

JOB LOG

SWIFT Services, Inc.

DATE: 6-30-17 PAGE: 1

CUSTOMER: SNAKESPEAR 072-648

WELL NO: 1-7

LEASE: SCHWALTER

JOB TYPE: 8 5/8" SURFACE

TICKET NO: 30329

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2036							ON LOCATION - REG UP TO RUN CASING
								TD-272 SET = 265 TP-265 8 5/8" # 23 15' CEMENT LEFT IN CASING
	2135							CASING ON BOTTOM - CIRCULATE W/ MUD
	2155	6	40		✓	150		Max CEMENT - 165 SKS STANDARD 2% GEL, 3% GEL
	2202	6	0		✓	200		DISPLACE CEMENT
	2205		16					CEMENT DISPLACED - SHUT IN
								CIRCULATED 20 SKS CEMENT TO BIT ←
								WASH TRUCK - WATER ON CEMENT
	0230							JOB COMPLETE
								THANK YOU
								WAYNE, DAVID K., KERBY
	2230							CEMENT FELL BACK IN HOLE ★ ←
	0115	2	10 1/2					ORDER CEMENT - 100 SKS MAX 50 SKS STANDARD 3% GEL CEMENT TO SURFACE - DID NOT FALL BACK WASH TRUCK



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



Invoice

DATE	INVOICE #
7/10/2017	30599

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

- Acidizing
- Cement
- Tool Rental

Schwalder 1-7

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1-7	Scjpw;ter	Scptt	Duke Drilling Rig ...	Oil	Development	PTA	David K.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				80	Miles	5.00	400.00
576D-P	Pump Charge - PTA				1	Job	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				5	Gallon(s)	42.00	210.00T
581D	Service Charge Cement				300	Sacks	1.50	450.00
583D	Drayage				1,011	Ton Miles	0.75	758.25
	Subtotal							5,862.00
Customer Disc...	Customer Discount Per Ted						-10.00%	-586.20
	Subtotal							5,275.80
	Sales Tax Scott County						8.50%	264.21
We Appreciate Your Business!							Total	\$5,540.01

*INT
PLUG*

RECEIVED
JUL 18 2017

*10562-17
KW*

DW



TICKET 30599

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

PAGE 1 OF 1

SERVICE LOCATIONS
 1. Ness City 155
 2. Wess City 155
 3. Wess City 155
 4. Wess City 155

WELL/PROJECT NO. # 1-7
 CONTRACTOR Schwartz
 TICKET TYPE SERVICE SALES
 WELL TYPE Oil
 WELL CATEGORY Drilling
 JOB PURPOSE PTA
 INVOICE INSTRUCTIONS

CITY Scott City STATE KS COUNTY/PARISH Scott DATE 7-10-17 OWNER Score
 DELIVERED TO Local ORDER NO.
 WELL LOCATION Scott City - Hwy 12 by Sunda

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1					80	mi	5.00	400.00
576 P		1		MILEAGE <u>Trk # 112</u>			1	job	800.00	800.00
328-4		1		Pump Charge - PTA			300	shk	10.25	3075.00
276		1		60/40 Pozmix (4% zel)			75	lbs	2.25	168.75
290		1		Flocele			5	gal	42.00	210.00
				D-Air						
581		1		Service Charge Cement			300	shk	1.50	450.00
583		1		Drainage			25285	lbs	00.75	758.25

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

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

X Robert Miller TIME SIGNED 0730 8:30 A.M.

DATE SIGNED 7-10-17

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

SURVEY
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

PAGE TOTAL 5862.00
 1.02
 27.24
 582.15
 580.00
 264.21
 5540.01

TOTAL 5540.01

SWIFT OPERATOR David Kuehn APPROVAL

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 7-10-17	PAGE NO. 1
TICKET NO. 30599	

CUSTOMER Shakespeare Oil		WELL NO. #1-7		LEASE Schowalter		JOB TYPE PTA		DESCRIPTION OF OPERATION AND MATERIALS	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)			
				T	C	TUBING	CASING		
	0600								on location
									RTD - 4750 DP - 4 1/2" Hole - 7 7/8" 300 sks 60/40 4% Gel 1/4" Flo
	0620	4 1/2	13		✓		200		mix 50 sks @ 2400'
		8	31		✓		100		Displace Cement w/ mud
	0705	4 1/2	21		✓		100		mix 80 sks @ 1740'
		4 1/2	19		✓		100		Displace Cement
	0745	4 1/2	13		✓		100		mix 50 sks @ 870'
		4 1/2	9		✓		100		Displace Cement
	0810	4 1/2	13		✓		100		mix 50 sks @ 300'
		4 1/2	1		✓		100		Displace Cement
	0820	4 1/2	5		✓		100		mix 20 sks @ 60'
	0835		8.5						Plug RH - MH (30-20)
									wash up truck
	0915								Job Complete

Thank You
Dave Preston Isaac



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

ATTN: Tim Priest

Job Ticket: 63825

DST#: 1

Test Start: 2017.07.04 @ 22:08:44

GENERAL INFORMATION:

Formation: **H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:40:14
 Time Test Ended: 04:38:44
 Interval: **4157.00 ft (KB) To 4195.00 ft (KB) (TVD)**
 Total Depth: 4195.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brandon Turley
 Unit No: 79
 Reference Elevations: 3019.00 ft (KB)
 3009.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8166

Outside

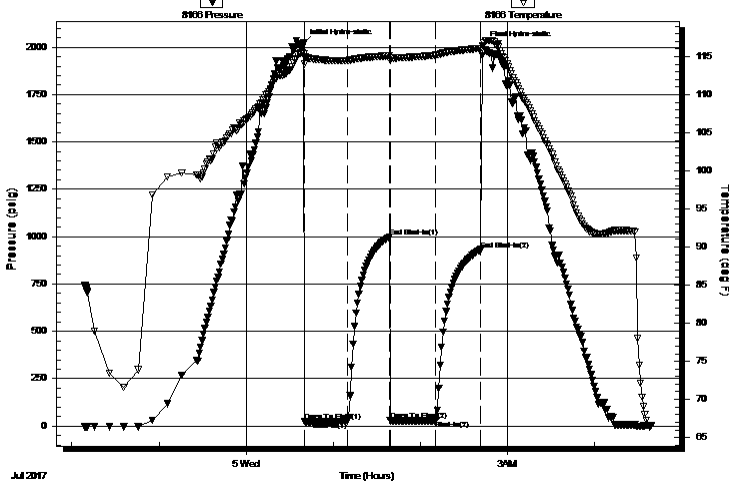
Press@RunDepth: 29.78 psig @ 4158.00 ft (KB)
 Start Date: 2017.07.04 End Date: 2017.07.05
 Start Time: 22:08:49 End Time: 04:38:43
 Capacity: 8000.00 psig
 Last Calib.: 1899.12.30
 Time On Btm: 2017.07.05 @ 00:39:44
 Time Off Btm: 2017.07.05 @ 02:43:44

TEST COMMENT: Surface blow died in 10 min.
 No return.
 No blow
 No return.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.35	115.41	Initial Hydro-static
1	25.65	114.01	Open To Flow (1)
30	24.65	114.46	Shut-In(1)
59	999.14	115.13	End Shut-In(1)
60	28.67	114.46	Open To Flow (2)
91	29.78	115.19	Shut-In(2)
122	932.05	116.08	End Shut-In(2)
124	2007.37	116.86	Final Hydro-static

Pressure vs. Time

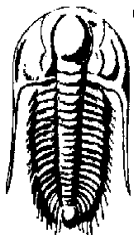


Recovery

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

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co
 202 W main St
 Salem, IL 62881
 ATTN: Tim Priest

7-16-32 Scott, Ks
Schowalter 1-7
 Job Ticket: 63825 **DST#: 1**
 Test Start: 2017.07.04 @ 22:08:44

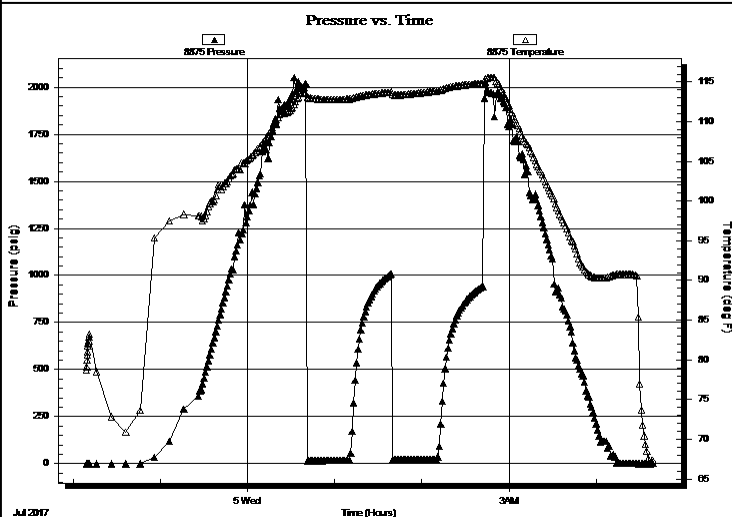
GENERAL INFORMATION:

Formation: H				Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock:		ft (KB)		Tester: Brandon Turley
Time Tool Opened: 00:40:14				Unit No: 79
Time Test Ended: 04:38:44				Reference Elevations: 3019.00 ft (KB)
Interval: 4157.00 ft (KB) To 4195.00 ft (KB) (TVD)				3009.00 ft (CF)
Total Depth: 4195.00 ft (KB) (TVD)				KB to GR/CF: 10.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Good			

Serial #: 8875 Inside

Press@RunDepth: psig @ 4158.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2017.07.04 End Date: 2017.07.05	Last Calib.: 2017.07.05
Start Time: 22:09:04 End Time: 04:38:58	Time On Btm:
	Time Off Btm:

TEST COMMENT: Surface blow died in 10 min.
 No return.
 No blow
 No return.



PRESSURE SUMMARY

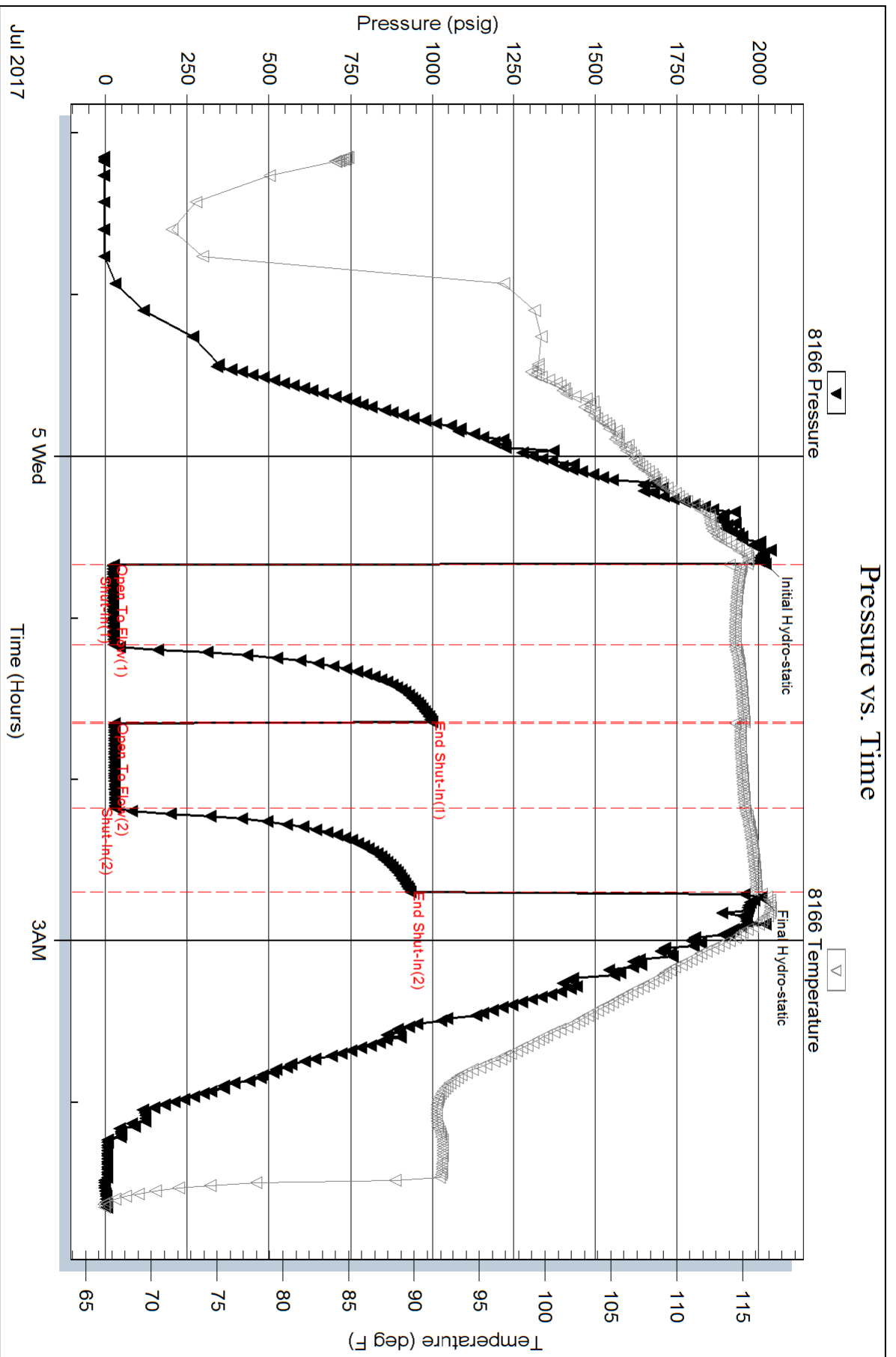
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

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

Gas Rates

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



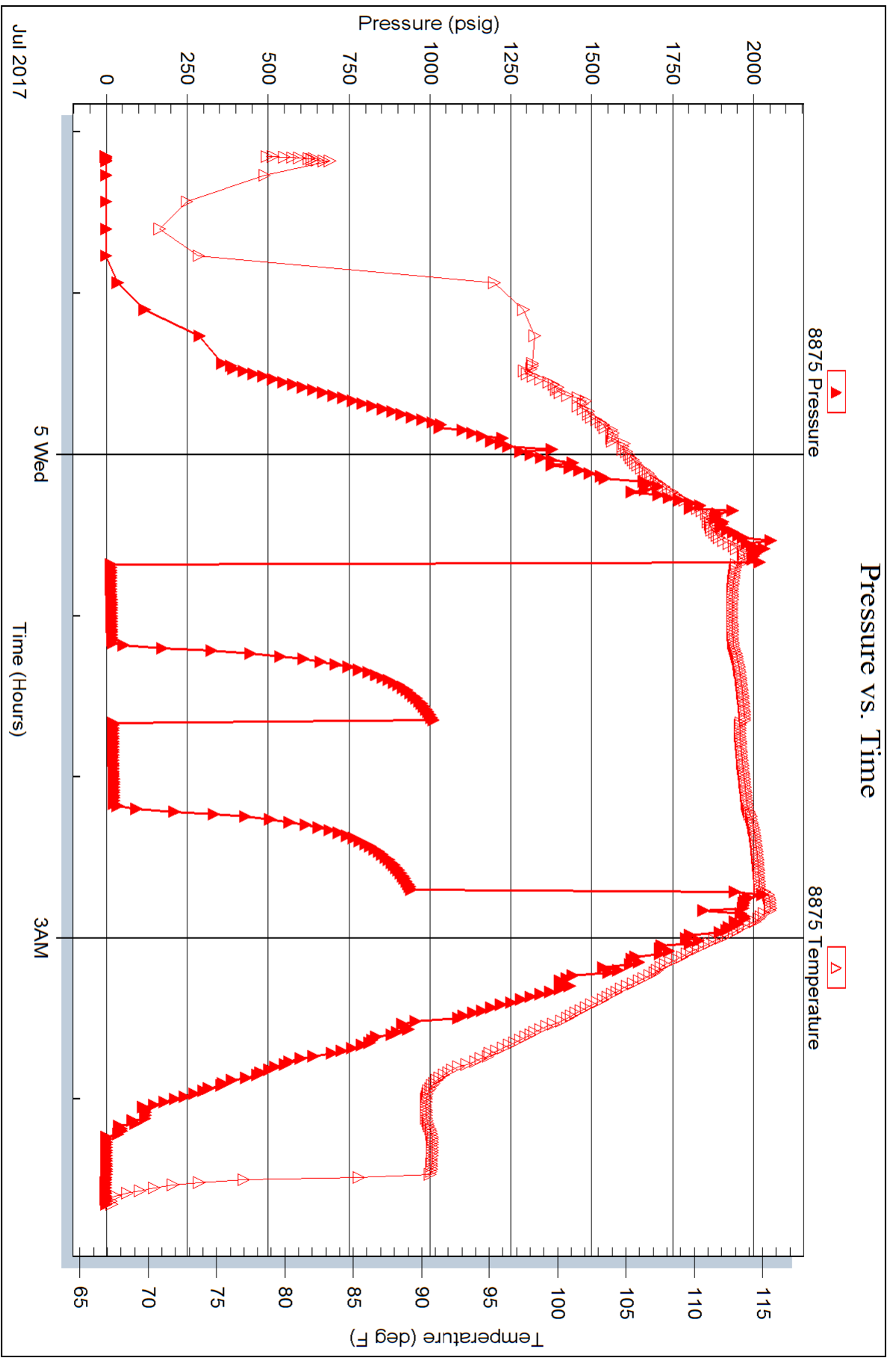
Serial #: 8875

Inside

Shakespeare Oil Co

Schow alter 1-7

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

ATTN: Tim priest

Job Ticket: 63851

DST#: 2

Test Start: 2017.07.05 @ 16:22:48

GENERAL INFORMATION:

Formation: **K**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 18:11:48 Tester: Brandon Turley
 Time Test Ended: 22:54:48 Unit No: 79
 Interval: **4250.00 ft (KB) To 4280.00 ft (KB) (TVD)** Reference Elevations: 3019.00 ft (KB)
 Total Depth: 4280.00 ft (KB) (TVD) 3009.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

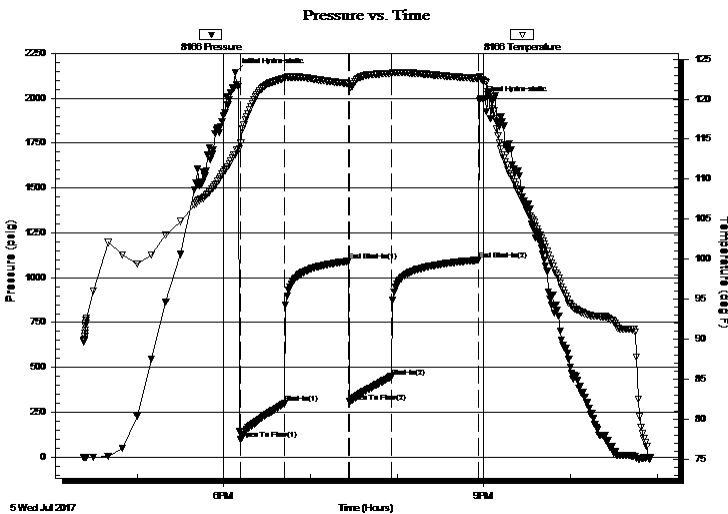
Serial #: 8166

Outside

Press@RunDepth: 448.69 psig @ 4255.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.07.05 End Date: 2017.07.05 Last Calib.: 2017.07.05
 Start Time: 16:22:53 End Time: 22:54:47 Time On Btm: 2017.07.05 @ 18:07:48
 Time Off Btm: 2017.07.05 @ 20:56:48

TEST COMMENT: IF: BOB in 6 min.
 IS: No return.
 FF: BOB in 7 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2143.79	113.09	Initial Hydro-static
4	100.21	114.51	Open To Flow (1)
34	298.55	122.57	Shut-In(1)
79	1092.38	121.96	End Shut-In(1)
79	308.48	121.56	Open To Flow (2)
108	448.69	123.20	Shut-In(2)
169	1098.35	122.58	End Shut-In(2)
169	1987.79	122.78	Final Hydro-static

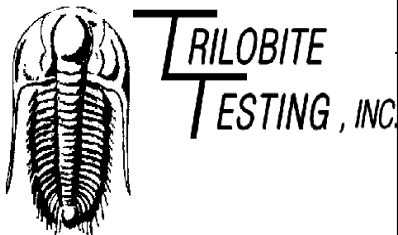
Recovery

Length (ft)	Description	Volume (bbl)
756.00	mcw 95%w 5%m	8.49
252.00	w cm 30%w 70%m	3.53

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Shakespeare Oil Co
 202 W main St
 Salem, IL 62881
 ATTN: Tim priest

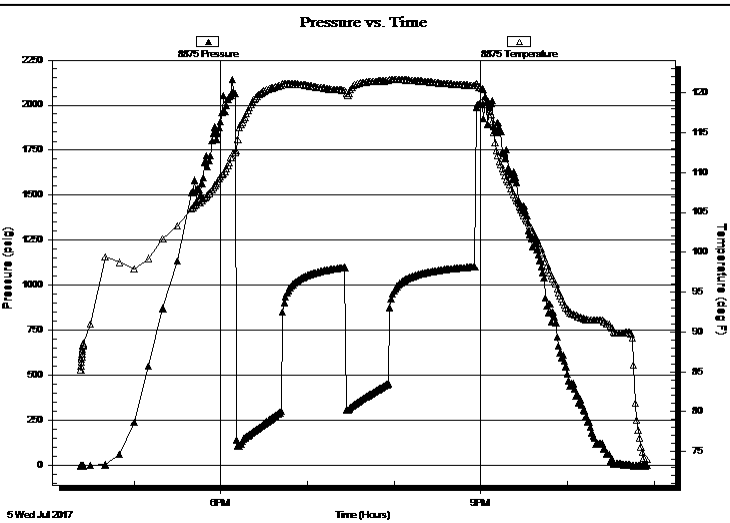
7-16-32 Scott, Ks
Schowalter 1-7
 Job Ticket: 63851 **DST#: 2**
 Test Start: 2017.07.05 @ 16:22:48

GENERAL INFORMATION:

Formation: **K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:11:48
 Time Test Ended: 22:54:48
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 79
 Interval: **4250.00 ft (KB) To 4280.00 ft (KB) (TVD)**
 Reference Elevations: 3019.00 ft (KB)
 Total Depth: 4280.00 ft (KB) (TVD)
 3009.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 8875 Inside
 Press@RunDepth: psig @ 4255.00 ft (KB)
 Start Date: 2017.07.05 End Date: 2017.07.05
 Start Time: 16:23:04 End Time: 22:55:28
 Capacity: 8000.00 psig
 Last Calib.: 2017.07.05
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: BOB in 6 min.
 IS: No return.
 FF: BOB in 7 min.
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
756.00	mcw 95%w 5%m	8.49
252.00	w cm 30%w 70%m	3.53

* 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

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

Job Ticket: 63851

DST#: 2

ATTN: Tim priest

Test Start: 2017.07.05 @ 16:22:48

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:

32000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
756.00	mcw 95%w 5%m	8.491
252.00	w cm 30%w 70%m	3.535

Total Length: 1008.00 ft Total Volume: 12.026 bbf

Num Fluid Samples: 0

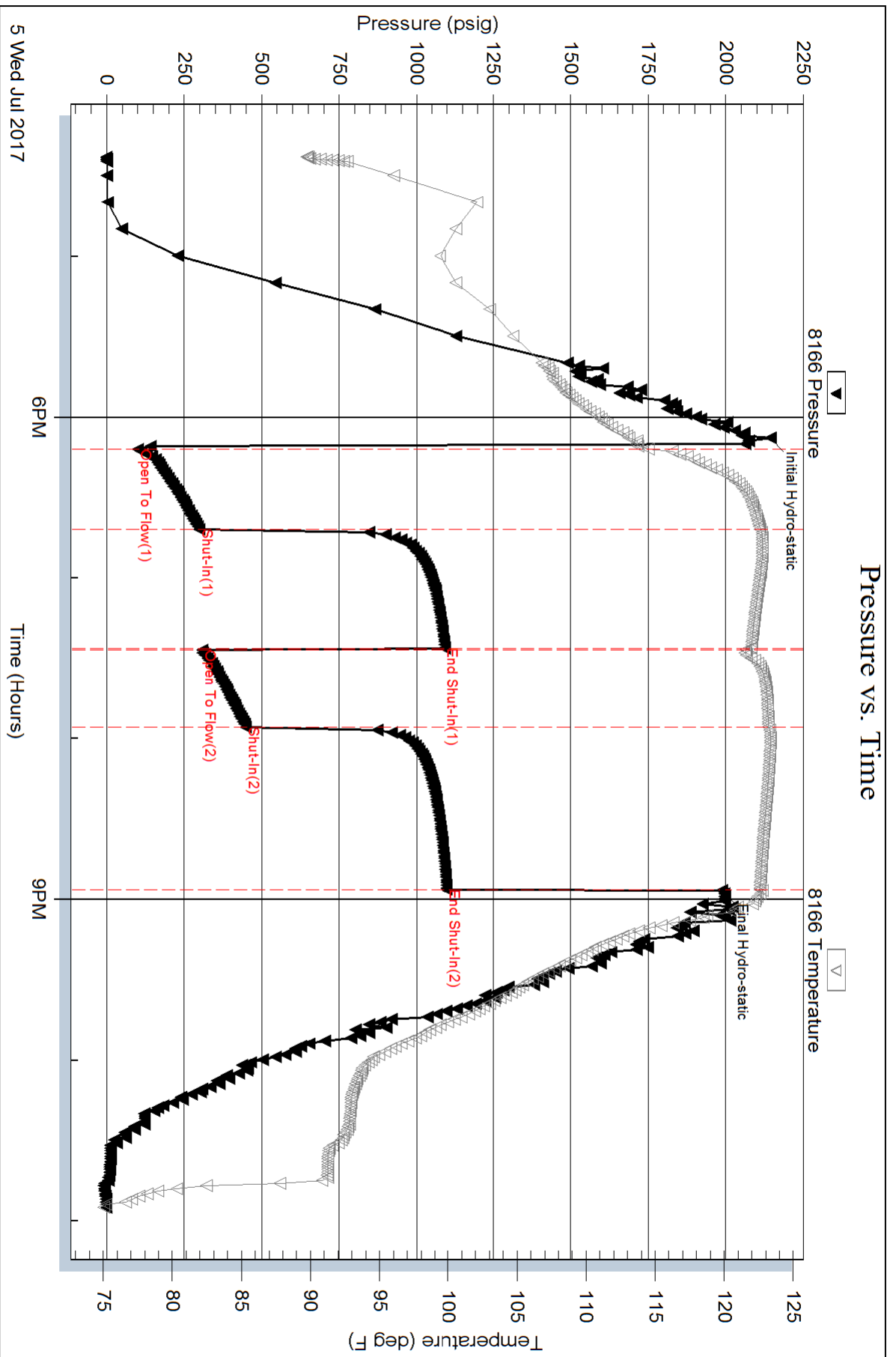
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .21@75=32000



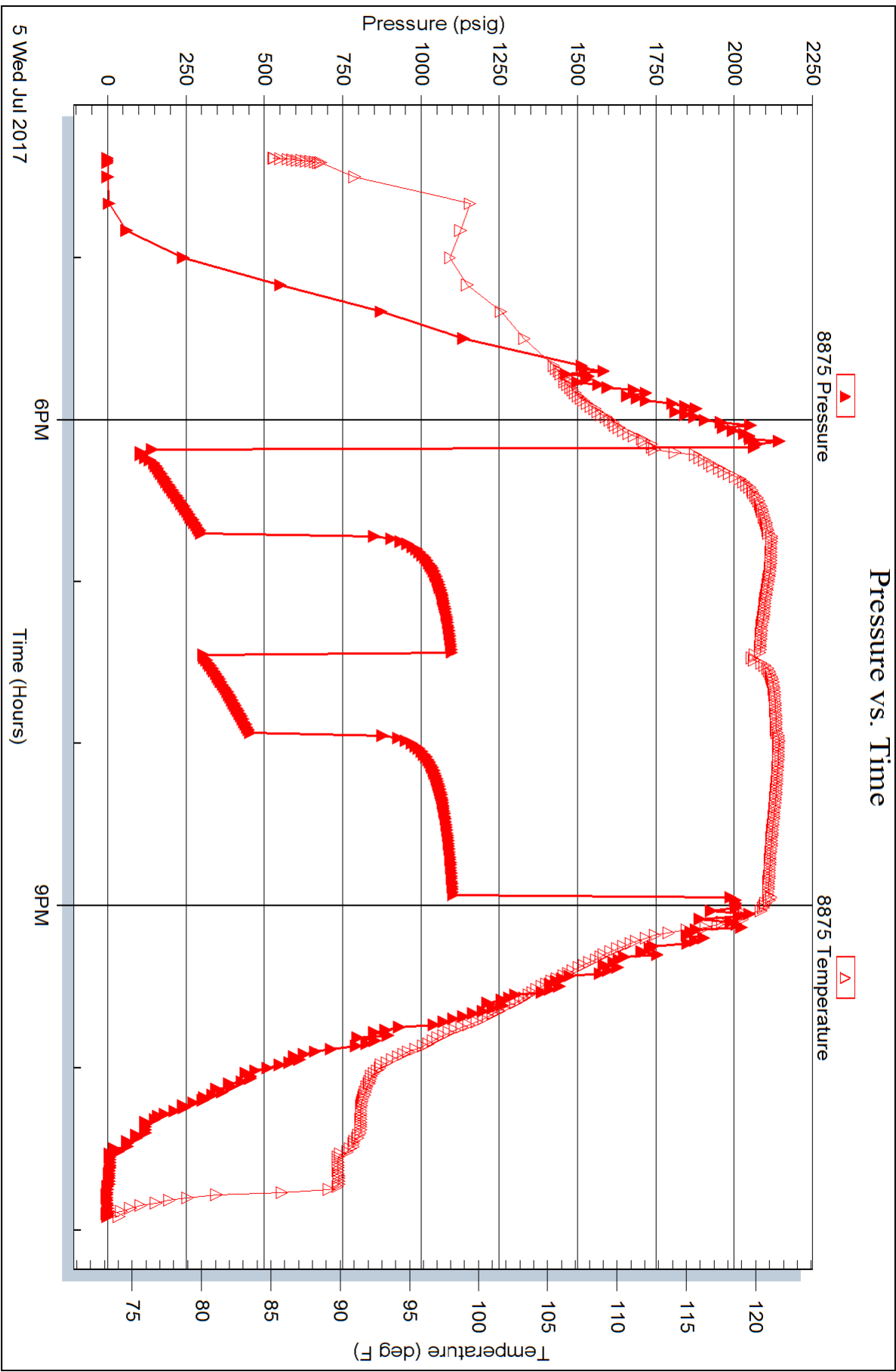
Serial #: 8875

Inside

Shakespeare Oil Co

Schow alter 1-7

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

ATTN: Tim priest

Job Ticket: 63852

DST#: 3

Test Start: 2017.07.06 @ 16:47:40

GENERAL INFORMATION:

Formation: **Marmaton A-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:00:10

Time Test Ended: 22:59:10

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4346.00 ft (KB) To 4426.00 ft (KB) (TVD)**

Reference Elevations: 3019.00 ft (KB)

Total Depth: 4426.00 ft (KB) (TVD)

3009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: **8166** Outside

Press@RunDepth: 43.37 psig @ 4351.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.06 End Date: 2017.07.06

Last Calib.: 1899.12.30

Start Time: 16:47:45 End Time: 22:59:09

Time On Btm: 2017.07.06 @ 18:59:40

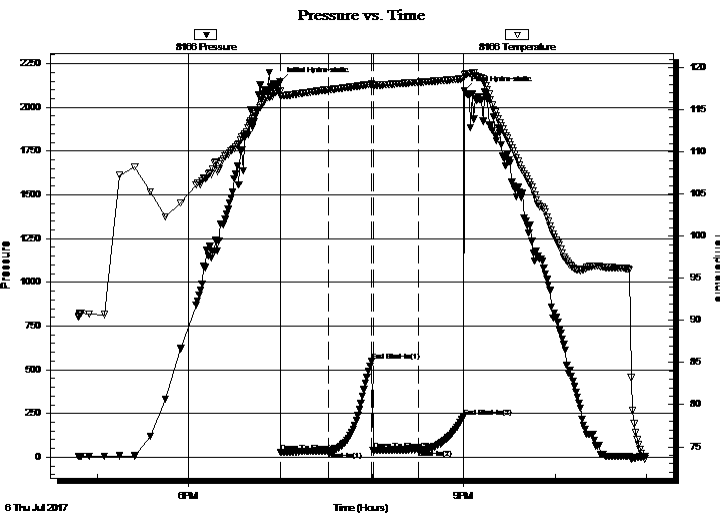
Time Off Btm: 2017.07.06 @ 21:00:40

TEST COMMENT: IF: Surface blow died in 14 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2148.98	117.21	Initial Hydro-static
1	26.97	116.69	Open To Flow (1)
32	35.49	117.36	Shut-In(1)
60	547.18	118.02	End Shut-In(1)
61	38.91	117.88	Open To Flow (2)
91	43.37	118.25	Shut-In(2)
120	231.26	118.67	End Shut-In(2)
121	2095.79	119.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 5%o 95%m	0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

ATTN: Tim priest

Job Ticket: 63852

DST#: 3

Test Start: 2017.07.06 @ 16:47:40

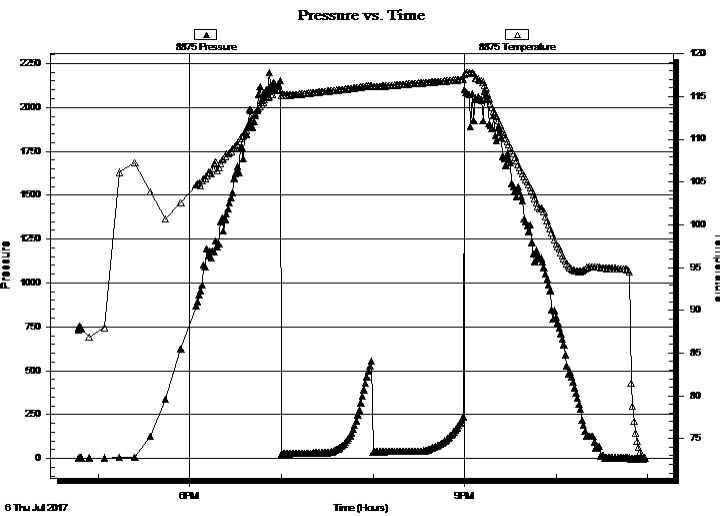
GENERAL INFORMATION:

Formation: **Marmaton A-B**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 19:00:10
 Tester: Brandon Turley
 Time Test Ended: 22:59:10
 Unit No: 79
 Interval: **4346.00 ft (KB) To 4426.00 ft (KB) (TVD)**
 Reference Elevations: 3019.00 ft (KB)
 Total Depth: 4426.00 ft (KB) (TVD)
 3009.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4351.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.07.06 End Date: 2017.07.06 Last Calib.: 2017.07.06
 Start Time: 16:47:05 End Time: 22:58:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Surface blow died in 14 min.
 IS: No return.
 FF: No blow.
 FS: No return.



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	ocm 5%o 95%m	0.30

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

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

Job Ticket: 63852

DST#: 3

ATTN: Tim priest

Test Start: 2017.07.06 @ 16:47:40

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocm 5%o 95%m	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

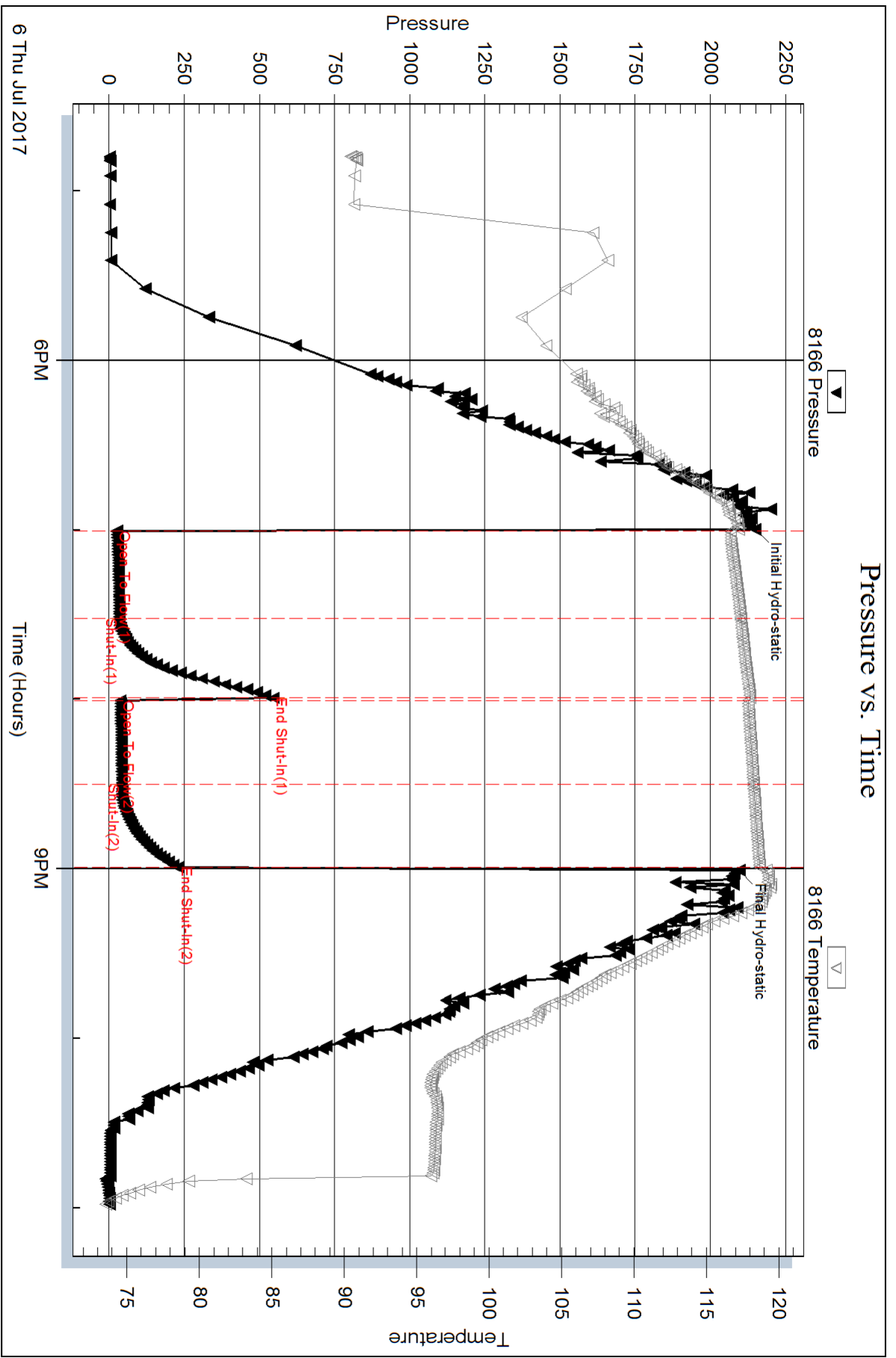
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



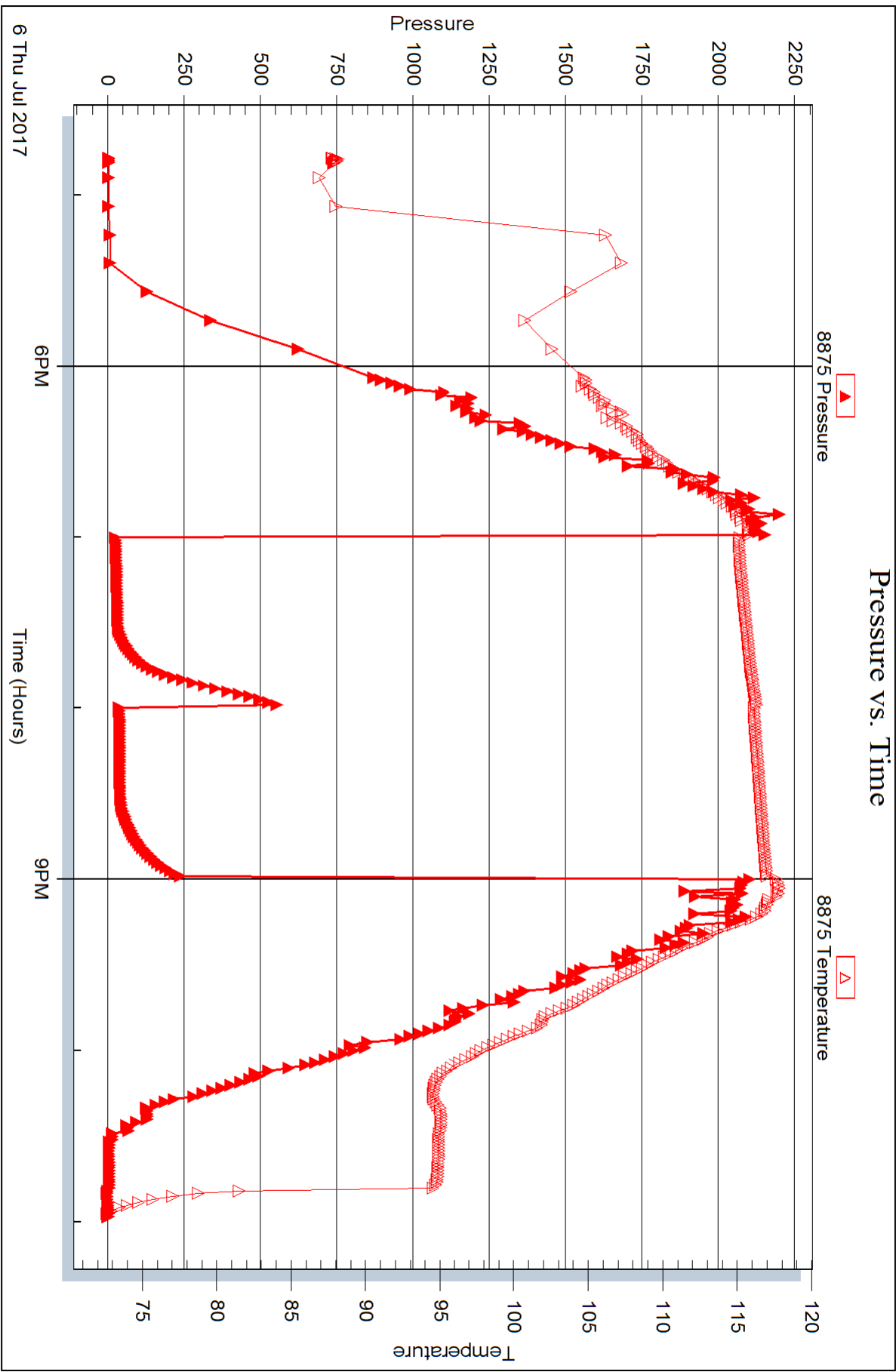
Serial #: 8875

Inside

Shakespeare Oil Co

Schow alter 1-7

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63852

Printed: 2017.07.07 @ 08:08:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

ATTN: Tim priest

Job Ticket: 63827

DST#: 4

Test Start: 2017.07.07 @ 16:54:15

GENERAL INFORMATION:

Formation: **Pawnee, Myrick Stati**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:14:00

Time Test Ended: 23:17:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4454.00 ft (KB) To 4540.00 ft (KB) (TVD)**

Reference Elevations: 3019.00 ft (KB)

Total Depth: 45540.00 ft (KB) (TVD)

3009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **6749** Outside

Press@RunDepth: 49.29 psig @ 4525.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.07 End Date: 2017.07.07

Last Calib.: 2017.07.07

Start Time: 16:54:15 End Time: 23:17:45

Time On Btm: 2017.07.07 @ 19:13:45

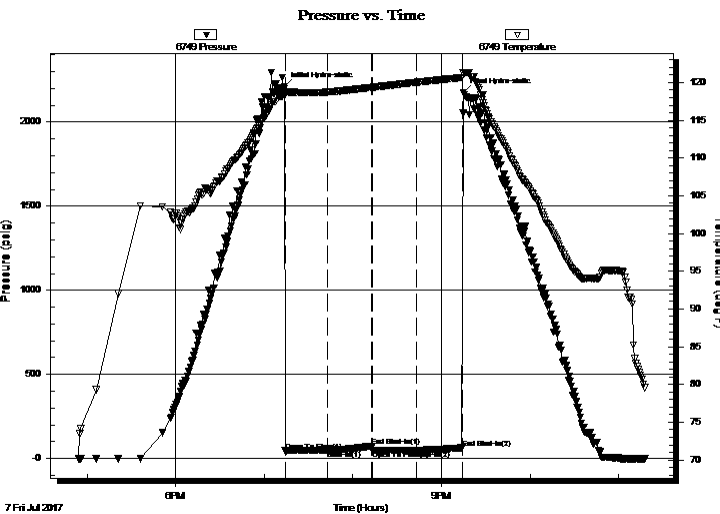
Time Off Btm: 2017.07.07 @ 21:14:45

TEST COMMENT: IF:Weak surface blow died in 19 min.

IS:No return blow

FF:No blow

FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.84	119.16	Initial Hydro-static
1	46.01	118.46	Open To Flow (1)
30	47.97	118.73	Shut-In(1)
59	74.39	119.36	End Shut-In(1)
60	48.92	119.35	Open To Flow (2)
90	49.29	120.03	Shut-In(2)
121	63.50	120.65	End Shut-In(2)
121	2173.89	121.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud with oil spots 100%m	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

ATTN: Tim priest

Job Ticket: 63827

DST#: 4

Test Start: 2017.07.07 @ 16:54:15

GENERAL INFORMATION:

Formation: **Pawnee, Myrick Stati**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:14:00

Time Test Ended: 23:17:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4454.00 ft (KB) To 4540.00 ft (KB) (TVD)**

Total Depth: 45540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3019.00 ft (KB)

3009.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: psig @ 4525.00 ft (KB)

Start Date: 2017.07.07 End Date: 2017.07.07

Start Time: 16:54:15 End Time: 23:17:30

Capacity: 8000.00 psig

Last Calib.: 2017.07.07

Time On Btm:

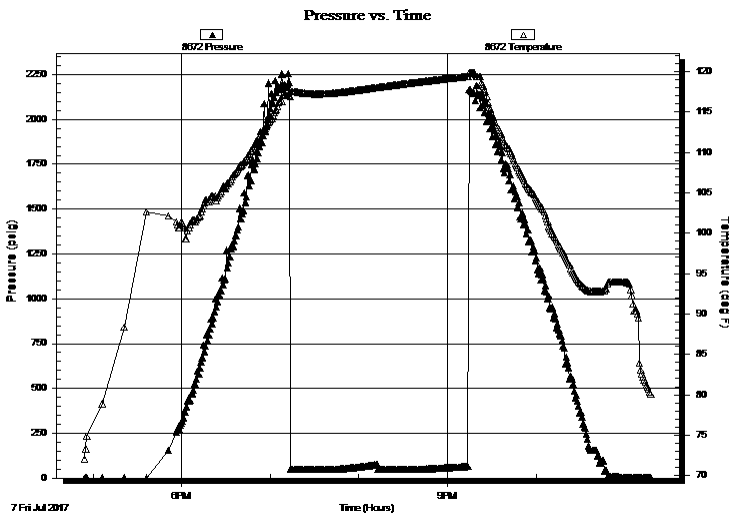
Time Off Btm:

TEST COMMENT: IF:Weak surface blow died in 19 min.

IS:No return blow

FF:No blow

FS:No return blow



PRESSURE SUMMARY

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

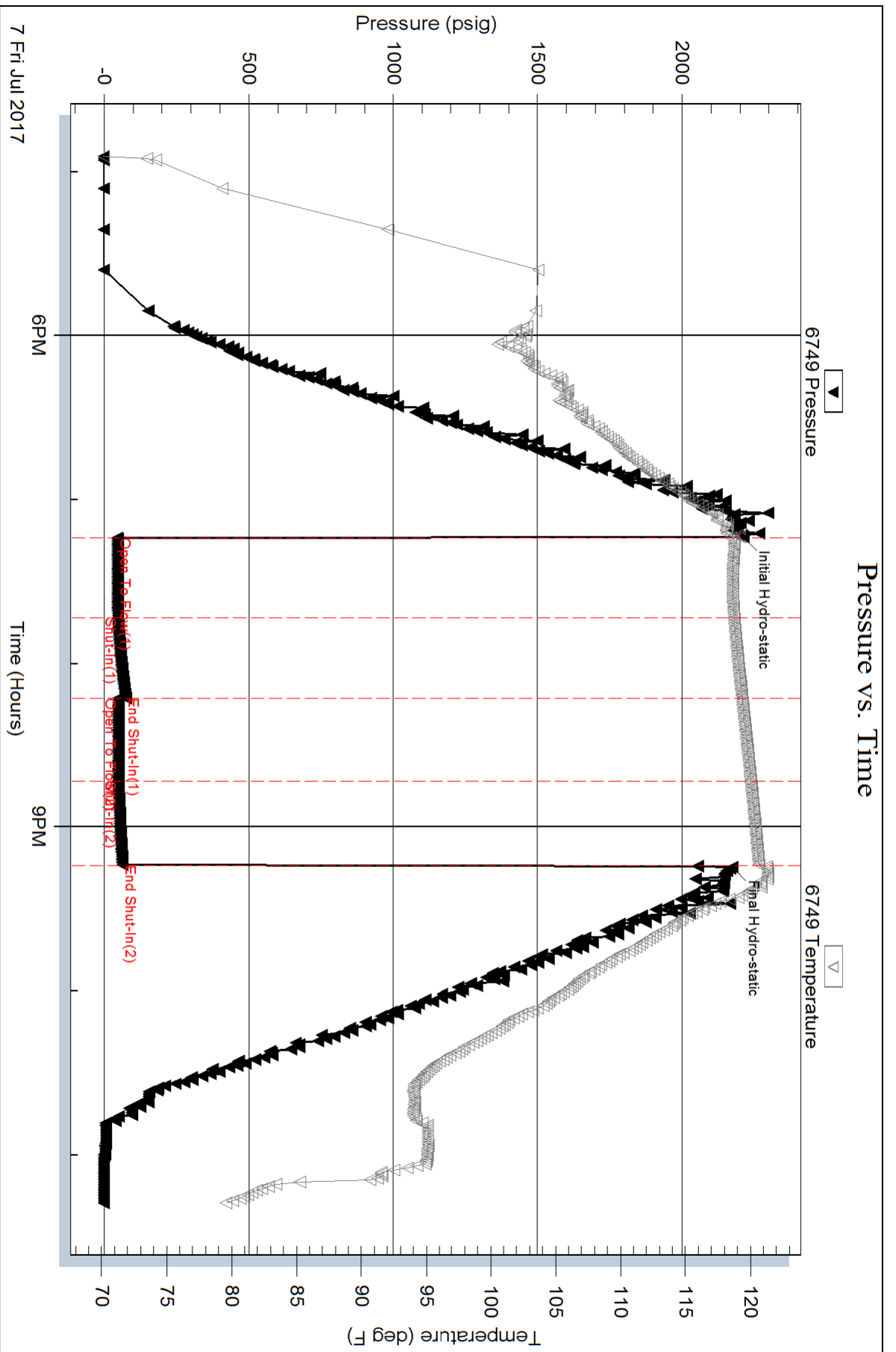
Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud w ith oil spots 100%m	0.01

Gas Rates

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

* Recovery from multiple tests



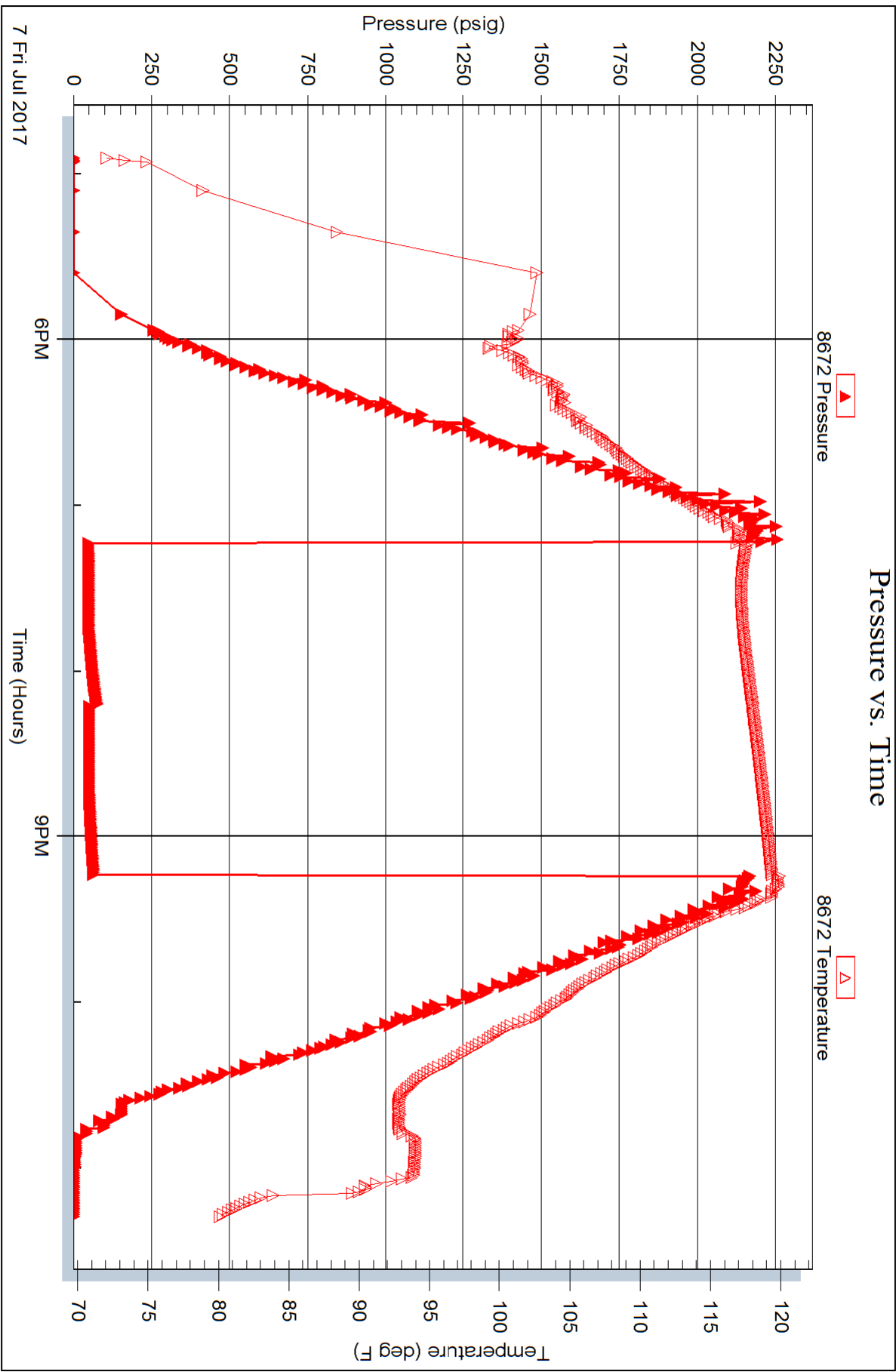
Serial #: 8672

Inside

Shakespeare Oil Co

Schow alter 1-7

DST Test Number: 4





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

ATTN: Tim priest

Job Ticket: 63828

DST#: 5

Test Start: 2017.07.08 @ 12:00:15

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:48:00

Time Test Ended: 20:47:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4576.00 ft (KB) To 4620.00 ft (KB) (TVD)**

Reference Elevations: 3019.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

3009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **6749** Outside

Press@RunDepth: 93.56 psig @ 4615.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.08 End Date: 2017.07.08

Last Calib.: 2017.07.08

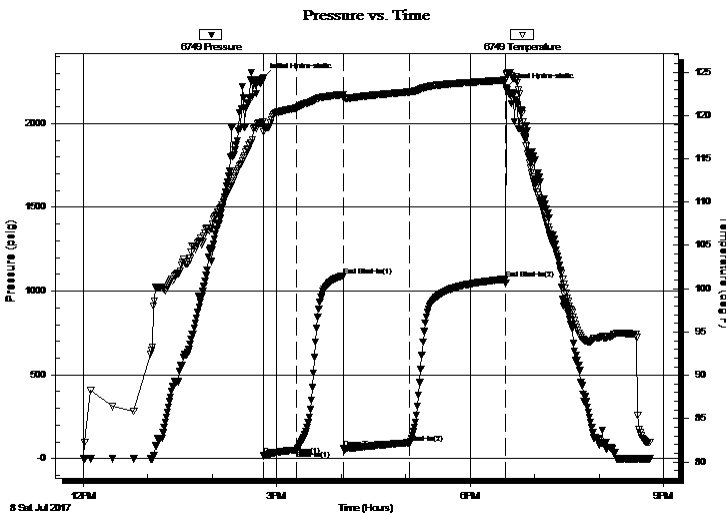
Start Time: 12:00:15 End Time: 20:47:30

Time On Btm: 2017.07.08 @ 14:47:45

Time Off Btm: 2017.07.08 @ 18:34:00

TEST COMMENT: IF:BOB in 22 min.
IS:Weak blow died in 30 min
FF:BOB in 8 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2275.55	119.28	Initial Hydro-static
1	16.96	118.12	Open To Flow (1)
31	50.47	120.87	Shut-In(1)
74	1092.13	122.42	End Shut-In(1)
75	59.89	122.09	Open To Flow (2)
136	93.56	122.72	Shut-In(2)
226	1071.00	124.08	End Shut-In(2)
227	2211.34	124.75	Final Hydro-static

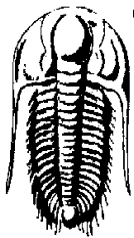
Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 558 Ft.	0.00
58.00	gcmo 55g 10%m 85%o (collars)	0.29
174.00	mcgo 10%m 20%g 70%o (collars)	0.86

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co

7-16-32 Scott, Ks

202 W main St
Salem, IL 62881

Schowalter 1-7

ATTN: Tim priest

Job Ticket: 63828

DST#: 5

Test Start: 2017.07.08 @ 12:00:15

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:48:00

Time Test Ended: 20:47:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4576.00 ft (KB) To 4620.00 ft (KB) (TVD)**

Reference Elevations: 3019.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

3009.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8672 Inside

Press@RunDepth: psig @ 4615.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.08

End Date:

2017.07.08

Last Calib.:

2017.07.08

Start Time: 12:00:15

End Time:

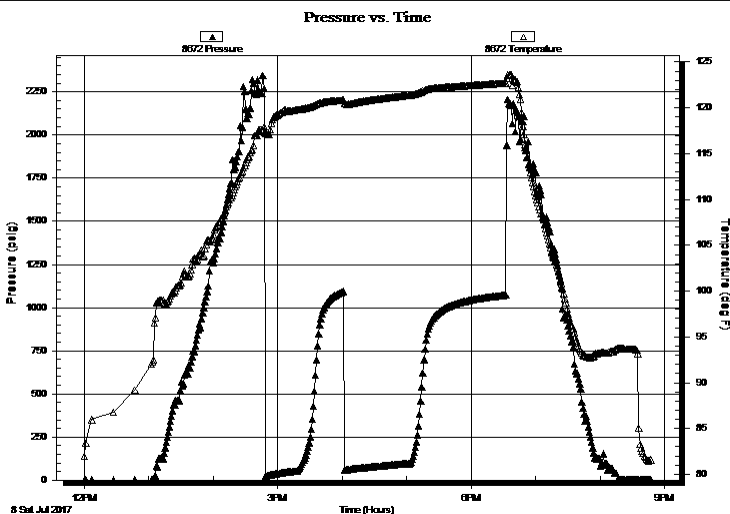
20:47:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:BOB in 22 min.
IS:Weak blow died in 30 min
FF:BOB in 8 min.
FS:No return blow

PRESSURE SUMMARY



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

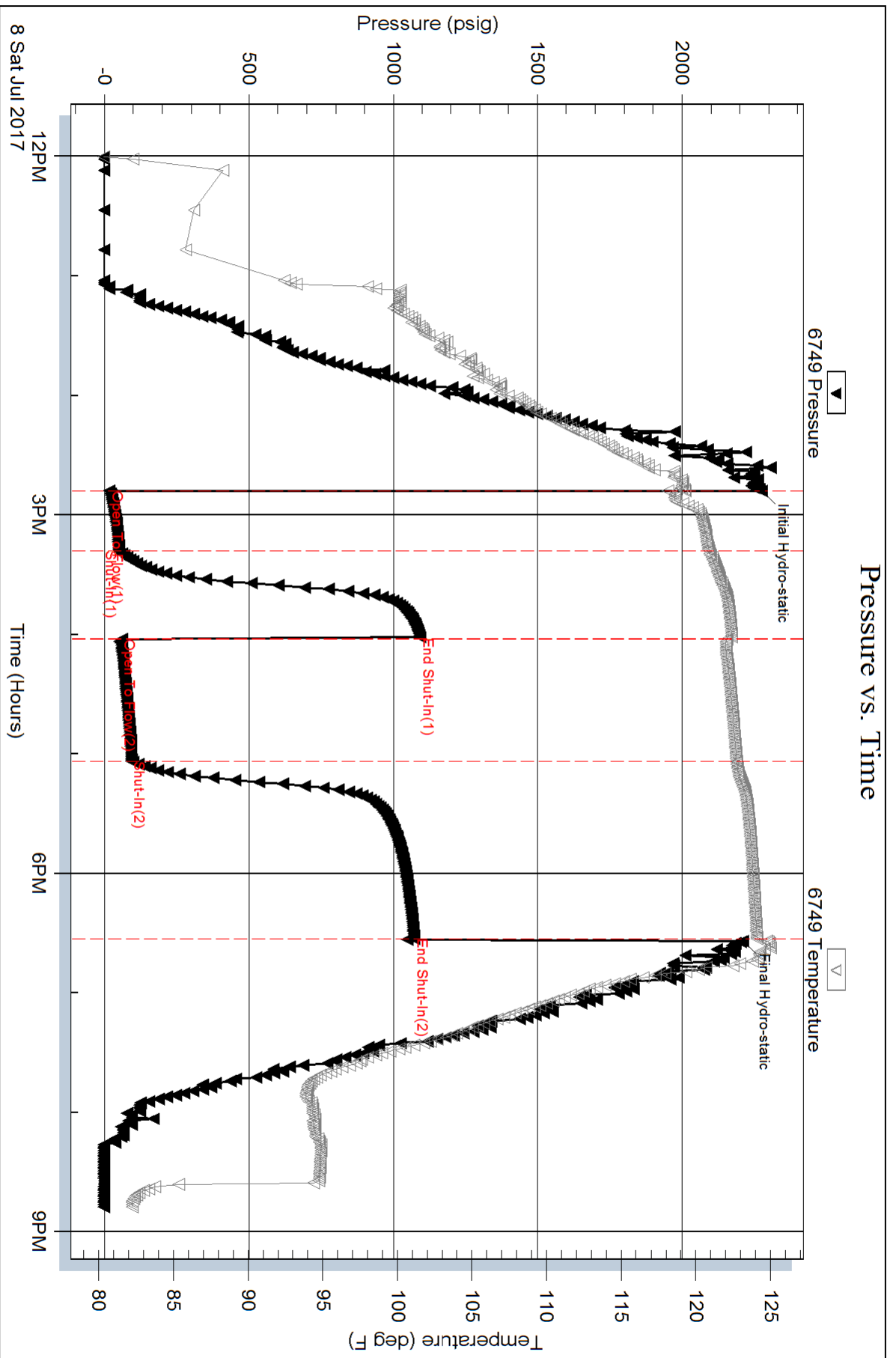
Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP= 558 Ft.	0.00
58.00	gcmo 55g 10%m 85%o (collars)	0.29
174.00	mcgo 10%m 20%g 70%o (collars)	0.86

Gas Rates

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

* Recovery from multiple tests



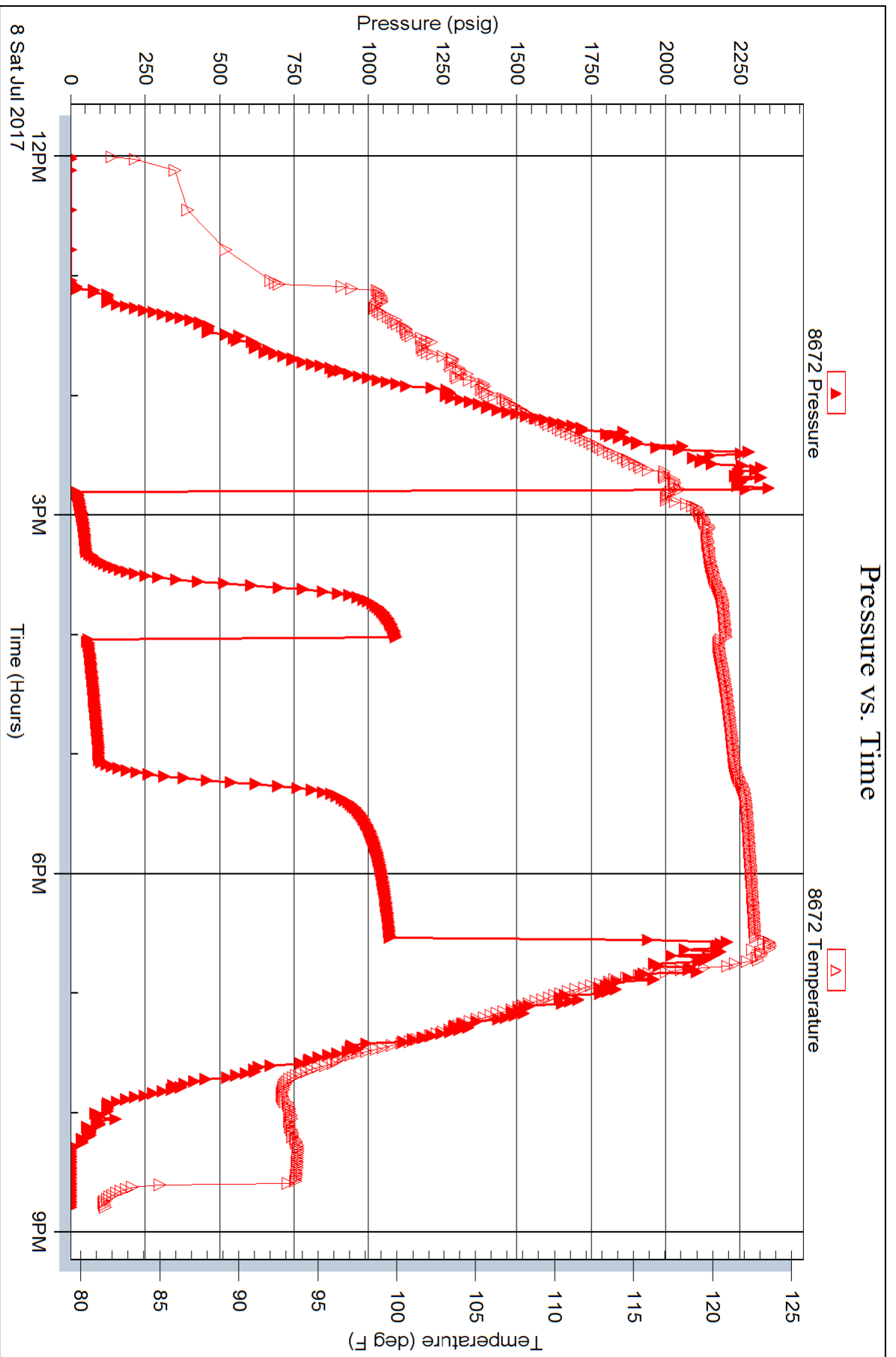
Serial #: 8672

Inside

Shakespeare Oil Co

Schow alter 1-7

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 63828

Printed: 2017.07.09 @ 09:38:46

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

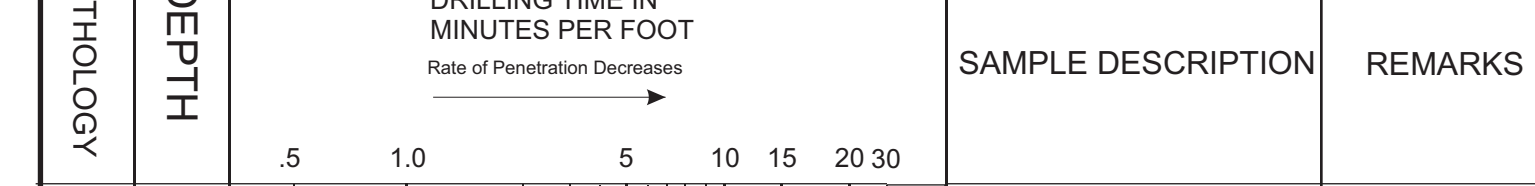
COMPANY: **SHAKESPEARE OIL CO.** ELEVATIONS: **KB 3020'**
 LEASE: **Shawnee L-7** LOCATION: **480' FNL, 2220' FWL** DF: _____
 FIELD: **Wildcat** LOCATION: **480' FNL, 16S, R9E, 32W** GL: **3009'**
 COUNTY: **Scott Co.** STATE: **Kansas** Measurements Are All From **KB**
 CONTRACTOR: **DUKE Rig #5** From **KB**
 SPUD: **6/30/17** COMP: **719/17** CASING: _____
 RTD: **4730'** LTD: **4756'** CONDUCTION: **N/A**
 MUD UP: **3500'** TYPE MUD: **Chemical** SURFACE: **8-5/8" @ 272'**
 SAMPLES SAVED FROM: **3800'** to RTD PRODUCTION: **None**
 DRILLING TIME KEPT FROM: **3800'** to RTD
 SAMPLES EXAMINED FROM: **3800'** to RTD
 GEOLOGICAL SUPERVISION FROM: **3900'** to RTD
 GEOLOGIST ON WELL: **Tim Priest** By: **Weatherford**

FORMATION TOPS: _____ SAMPLE _____
 Anhydrite: **2390 (-630)** **2385 (-635)**
 Heebner Shale: **3952 (-932)** **3945 (-925)**
 Lansing: **3991 (-971)** **3980 (-960)**
 SARC: **4262 (-1242)** **4251 (-1231)**
 B/K.C.: **4344 (-1324)** **4333 (-1313)**
 Fort Scott: **4518 (-1498)** **4511 (-1491)**
 Cherokee Shale: **4516 (-1526)** **4507 (-1521)**
 Mississippian: **4680 (-1660)** **4671 (-1651)**

REMARKS: Due to the results of drill stem tests, it was decided to plug and abandon the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-171-21205-00-00



DEPTH	LITHOLOGY	SAMPLE DESCRIPTION	REMARKS
2385 (+635)	Anhydrite		
2407 (+613)	Base/ Anhydrite		
3800		Enter data table starting lines	
3800		Ls crm, fn xtl, fos-fn ool, p-f int xtl-pp por, NS	
3800		Ls tan-gry, vfn xtl, dns	
3800		Sh red-gry	
3800		Sh gry-blk	
3800		Ls crm-tan, fn xtl, fos, chky, f int xtl & pp-vug por, NS	
3800		Ls crm, fn xtl, fos, chky, f int xtl & pp-vug por, NS	
3800		Sh rd-gry	
3800		Ls crm-tan, fn xtl, fos-sub ool, chky, f-gd int xtl & int frag por, NS	
3800		Ls lt gry, vfn xtl, sli chty, dnse	
3800		Ls crm-tan, fn xtl, fos, sli chky, p-f int xtl-pp por, NS	
3800		Sh blk, carb	
3800		Ls crm, fn xtl, dnse	
3800		Sh gry-dk gry, calc	
3800		Ls crm-tan, vfn xtl, sli fos, sli chky, p-f int xtl-pp por, NS	
3800		Sh grn-gry, calc, dnse	
3800		Ls crm, fn xtl, ool, chky, f-gd int ool & ooc por, NS	
3800		Ls crm, fn xtl, fos, chky, sli chty, f int xtl & int frag por, NS	
3800		Sh gry	
3800		Ls crm-lt gry, fn xtl, fos, chky, sli chty, p-f int xtl-pp por, NS	
3800		Sh grn-gry	
3800		Ls crm-lt gry, fn xtl, fos-sub ool, f int xtl & int frag por, NS	
3800		Sh grn-gry-red	
3800		Ls lt gry-tan, vfn xtl, sli chky, dnse	
3800		Sh grn-gry	
3800		Ls crm-lt gry, fn xtl, fos-fn ool, chky, f int frag por, NS	
3800		Ls crm-lt gry, fn-vfn xtl, sli chty, sli chky, dnse	
3800		Sh grn-gry	
3800		Ls crm, fn xtl, fos-sli ool, chky, f int xtl & int frag por, NS	
3800		Ls crm-lt gry, fn xtl, sli chty, dnse	
3800		Ls lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
3800		Sh gry	
3800		Ls crm-lt gry, vfn xtl, dnse	
3800		Sh blk, carb	
3800		Ls tan-brn, fn xtl, chty, dnse	
3800		Sh red-gry, calc	
3800		Ls crm-tan, fn xtl, fos, sli chky, p-f int xtl-pp por w/few vugs, spid-sat stn, SFO, f odor, dull fluor	
3800		Ls crm, vfn xtl, chty, dnse	
3800		Sh dk gry-blk	
3800		Ls tan-gry, vfn xtl, dnse	
3800		Ls crm-lt gry, fn xtl, fos, sli chky, p-f pp-vug por, spid-sli sat blk stn, SSFO, f odor, dull fluor	
3800		Sh grn-gry	
3800		Ls crm-lt gry, fn xtl, ool, chky, f int xtl & ooc por, NS	
3800		Ls crm-lt gry, fn xtl, sli fos, sli chky, p-f int xtl-pp por, NS	
3800		Sh blk, carb	
3800		Ls tan-brn, mic xtl, chty, dnse	
3800		Ls crm-lt gry, fn xtl, fos, chky, w/few vugs, dol w/mostly sat dk stn, SFO (mostly floating), f odor, v dull-no fluor	
3800		Ls crm-lt gry, vfn xtl, dnse	
3800		Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS	
3800		Sh blk, carb	
3800		Ls crm-lt gry, fn xtl, fos, chky, p int xtl-pp por, NS	
3800		Sh tan-gry, vfn xtl, sli chty, dnse	
3800		Sh gry-blk	
3800		Ls crm-lt gry, fn xtl, fos, chky, p int xtl-pp por, NS	
3800		Sh var col, silty, sandy	
3800		Ls crm-lt gry, vfn xtl, chky, dnse	
3800		Sh grn-gry	
3800		Ls crm-lt gry, fn xtl, fos, chky, p int xtl-pp por, NS	
3800		Sh grn-gry, calc	
3800		Ls crm-lt gry, vfn xtl, dnse	
3800		Ls crm-lt gry, vfn xtl, chty, dnse	
3800		Sh blk, carb	
3800		Ls lt gry, mic xtl, chty	
3800		Ls crm-lt gry, fn xtl, fos, chky, p int xtl-pp por, It spid stn on 3 pcs, VSSFO, sli odor, no fluor	
3800		Ls crm-lt gry, vfn xtl, sli chty, dnse	
3800		Sh blk, carb	
3800		Ls crm-lt gry, fn xtl, fos, chky, p int xtl-pp por, NS	
3800		Sh blk, carb	
3800		Ls tan-gry mottl, ool, p-f int ool por, spid-sat dk stn, SSFO, sli odor, no fluor	
3800		Ls crm-tan-gry, vfn xtl, sli fos-sli ool, p int frag por, NS	
3800		Sh blk, carb	
3800		Ls crm-tan-gry mottl, fn xtl, fos, sli chky, p-f int xtl & int frag por, NS	
3800		Ls crm-tan-gry, vfn xtl, sli chky, dnse	
3800		Sh blk, carb, w/int bed tan-gry, vfn xtl Ls	
3800		Ls tan-gry, vfn xtl, chty, dnse	
3800		Sh grn-gry-red	
3800		Ls tan-gry, vfn xtl, dnse	
3800		Ls crm-tan-gry, vfn xtl, sli chty, dnse	
3800		Ls crm-tan-brn, vfn xtl, fos, p-f pp-vug por, spid stn, SFO (mostly floating), f odor, no fluor	
3800		Ls crm-tan-lt gry, fn xtl, p-f pp-vug por, spid-sat stn, FSO w/ GS, (abundant floating oil), strong odor, no fluor	
3800		Sh var col	
3800		Sh var col, w/int gm, fn gm, dnse SS	
3800		SS wh-lt gm, fn gm, glauc, sli fria, NS	
3800		Sh var col	
3800		SS clear-wh, fn-med gm, fria, NS	
3800		Sh var col, w/hty litye SS	
3800		Ls lt gry, vfn xtl, sandy, dnse	
3800		Ls lt gry, vfn xtl, sandy, dnse	
3800		Ls crm-lt gry, vfn xtl, sli sandy, dnse	
3800		Ls lt gry, mic xtl, dnse	
3800		Ls crm-lt gry, vfn xtl, chky, sli chty, dnse	
3800		Ls crm-lt gry, mic xtl, dnse	
3800		Total Depth	4750' (-1730)

Muncie Creek 4157 (-1137)
DST # 1 (4157-4195)
 30'-30'-30'-30'
 FF: 30' below, no return
 Rec: 5' Mud
 Fps: 25-24#/28-29#
 SPS: 998#/32#
 HSPs: 2021#/2007#
 BHT: 116 deg F

Stark Shale 4054 (-1234)
DST # 2 (4250-4280)
 30'-45'-30'-60'
 FF: 30' below, no return
 Rec: 3' OSM
 Fps: 100-28#/308-448#
 SPS: 1052#/108#
 HSPs: 2154#/1687#
 BHT: 122 deg F
 Chex: 32.000ppm

Hushpuckney Shale 4300 (-1280)

B/K.C. 4333 (-1313)

Marmaton 4189 (-1369)
DST # 3 (4345-4420)
 30'-30'-30'-30'
 FF: Died in 14', no return
 Rec: 60' OCM(5%O,95%M)
 Fps: 26-35#/38-43#
 SPS: 547#/211#
 HSPs: 2211#/2173#
 BHT: 121 deg F

DST # 4 (4425-4540)
 30'-30'-30'-30'
 FF: Died in 15', no return
 Rec: 3' OSM
 Fps: 46-47#/48-49#
 SPS: 744/63#
 HSPs: 2211#/2173#
 BHT: 121 deg F

Pawnee 4460 (-1440)

Myric Station 4436 (-1476)

Fort Scott 4511 (-1491)

Cherokee Shale 4539 (-1519)

Johnson Zone 4579 (-1559)
DST # 5 (4575-4620)
 30'-45'-60'-90'
 FF: BOB 22', surface return
 Rec: BOB 8', no return
 Rec: 558' GIP, 58' GMO (5%O,85%O,10%M), 174' HCO(20%O,70%O,10%M)
 Total: 232' fluid
 Fps: 16-50#/59-93#
 SPS: 1052#/1071#
 HSPs: 2275#/2211#
 BHT: 124 deg F
 Gravity: NA

Mississippian 4671 (-1651)