

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
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

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	OTTLEY 5-27
Doc ID	1458407

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	OTTLEY 5-27
Doc ID	1458407

Tops

Name	Top	Datum
Base Anhydrite	2156	+540
Heebner	3652	-956
Lansing	3688	-992
Muncie Creek	3846	-1150
Stark Shale	3938	-1242
Hushpuckney	3972	-1276
Marmaton	4078	-1382
Pawnee	4152	-1456
L. Cherokee Shale	4231	-1535
Johnson	4274	-1578
Mississippian	4357	-1661

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

Invoice

Date	Invoice #
3/25/2019	0013399

Bill To
SHAKESPEARE OIL COMPANY INC 202 W MAIN SALEM, IL 62881

INT

P.O. No.	Terms	Project
<u>OTTLEY#5-27</u>	Due on receipt	<i>Surface Csg</i>

Quantity	Description	Rate	Amount
144	COMMON CEMENT	16.50	2,376.00
36	POZ	9.50	342.00
7	CALCIUM-CHLORIDE	80.00	560.00
4	BENTONITE GEL	30.00	120.00
190	HANDLING	1.90	361.00
	BULK MILEAGE	500.00	500.00
1	TRI-PLEX PUMP CHARGE FOR SURFACE	850.00	850.00
35	HEAVY EQUIPMENT. ONE WAY	6.50	227.50
35	LMV- ONE WAY	2.75	96.25
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		0.00
	LOGAN CO SALES TAX	8.00%	0.00

RECEIVED

MAR 28 2019

*502-5
DH*

Thank you for your business.

Phone #	Fax #
785-445-3525	785-445-3526

Total \$5,432.75

DW

GLOBAL OIL FIELD SERVICES, LLC

0013399

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT:

Russell KS

DATE <i>3-21-19</i>	SEC. <i>27</i>	TWP. <i>14</i>	RANGE <i>32</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <i>6:45 PM</i>
LEASE <i>OHLEY</i>	WELL #. <i>S-27</i>	LOCATION <i>South of Oakley KS to Taylor/KM</i>		COUNTY <i>Logan</i>	STATE <i>KS</i>		
OLD OR <input checked="" type="radio"/> NEW (CIRCLE ONE)		<i>1 west 5 1/2 in</i>					

CONTRACTOR <i>Duke Drilling Rig #2</i>	OWNER <i>Shakespeare Oil Co.</i>
TYPE OF JOB <i>Surface</i>	
HOLE SIZE <i>12 1/2</i>	T.D. <i>265'</i>
CASING SIZE <i>8 1/2</i>	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>2.5'</i>	
PERFS	
DISPLACEMENT	

CEMENT AMOUNT ORDERED <i>180 SKS 80/70 3% GEL</i>	
COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
	@
	@
	@
	@
	@
	@
HANDLING	@
MILEAGE	@
TOTAL	

EQUIPMENT	
PUMP TRUCK # <i>417</i>	CEMENTER HELPER <i>Cody Jason</i>
BULK TRUCK # <i>1911</i>	DRIVER <i>Tom</i>
BULK TRUCK #	DRIVER

REMARKS:

Ran bits of 8 1/2 casing + Lit hooked to rig broke circulation hooked to truck + pumped 180 SKS of cement + displaced 15 1/2 hrs at 1720 + shut in

Cement Did Circulate to Surface

CHARGE TO: *Shakespeare Oil Co.*
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE	@
MILEAGE	@
MANIFOLD	@
	@
	@
TOTAL	

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
	@
TOTAL	

Global Oil Field Services, LLC
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Dion Vasquez*
SIGNATURE *Dion Vasquez*

SALES TAX (If Any) _____
TOTAL CHARGES _____
DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
 RUSSELL, KS 67665

Invoice

Date	Invoice #
4/12/2019	0013406

Bill To
SHAKESPEARE OIL COMPANY INC 202 W MAIN SALEM, IL 62881

RECEIVED
 APR 15 2019

INT

P.O. No.	Terms	Project
<u>OTTLEY#5-27</u>	Due on receipt	<i>P+A</i>

Quantity	Description	Rate	Amount
240	60/40 POZMIX CEMENT	13.75	3,300.00
8	BENTONITE GEL	30.00	240.00
60	FLO-SEAL	2.00	120.00
248	HANDLING	1.90	471.20
	BULK MILEAGE	500.00	500.00
1	TRI-PLEX PUMP CHARGE FOR <u>PLUG</u>	850.00	850.00
35	HEAVY EQUIPMENT. ONE WAY	6.50	227.50
35	LMV- ONE WAY	2.75	96.25
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		0.00
	LOGAN CO SALES TAX	8.00%	0.00

*502-17
 DH*

Thank you for your business.		Total	\$5,804.95
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Phone #	Fax #
785-445-3525	785-445-3526

DW

GLOBAL OIL FIELD SERVICES, LLC

0013408

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>4-1-19</u>	SEC. <u>27</u>	TWP. <u>14</u>	RANGE <u>22</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>12:30pm</u>
LEASE <u>Haley</u>	WELL #. <u>5-27</u>	LOCATION <u>Brushed Oakley to Taylor Hill</u>			COUNTY <u>Cosgro</u>	STATE <u>KS</u>	
OLD OR NEW (CIRCLE ONE) <u>NEW</u>			<u>1 West Southgate</u>				

CONTRACTOR Duke Drilling Rig # 2
 TYPE OF JOB Rotary Plug
 HOLE SIZE 4 7/8 T.D. 4440'
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS _____
 DISPLACEMENT _____

OWNER Shakespeare Oil
 CEMENT AMOUNT ORDERED 240 SKS 60/10 12L
496 gal 1/4" x 6 1/2"

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____
 TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Cody
 # 417 HELPER Jason
 BULK TRUCK
 # 410 DRIVER Tom
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:
50 SKS 2150'
100 SKS 1175'
50 SKS 300'
10 SKS 40' + wiper plug
20 SKS Rot

CHARGE TO: Shakespeare Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

Global Oil Field Services, LLC
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Dion Vasquez
 SIGNATURE Dion Vasquez

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 MANIFOLD _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

ELEVATIONS
KB 2696'
GL 2688'

COMPANY & WELL
Shakespeare # 5-27 Otley
2299 FNL, 2100 FWL, NW/4

LOCATION
SEC 27 TWPSP 14s RGE 32w

COUNTY Logan STATE Kansas

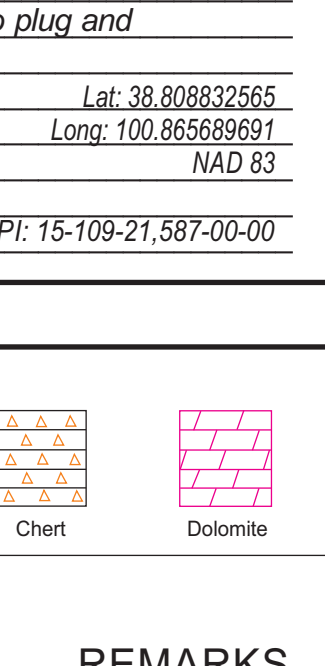
Tim J. Lauer
Petroleum Geologist

Office 316.832.0530
Cell 316.253.1275

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY	Shakespeare Oil Company, Inc	ELEVATIONS	KB 2696'
LEASE	# 5-27 Otley	DF	
FIELD	APPX 2100 SE NW	GL	2688'
LOCATION	2299 FNL, 2100 FWL, NW/4	Measurements Are All From	Kelly Bushing
SEC	27 TWPSP 14s RGE 32w	CASING	
COUNTY	Logan STATE Kansas	SURFACE	8-5/8" @ 265'
CONTRACTOR	Duke Drilling Company - Rig #2	PRODUCTION	none
SPUD	3-21-2019 COMP	ELECTRICAL	
RTD	4440' LTD 4434'	SURVEYS	Weatherford DCPL, DIL, ML Engineer: Bandar Bin Oslur
MUD UP	3406' TYPE MUD Chemical		

FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG
Base Anhydrite	2166 (+540)	2160 (+536)
Heebner	3652 (-956)	3658 (-962)
Lansing	3688 (-922)	3694 (-926)
Stark	3938 (-1242)	3943 (-1247)
Marmaton	4078 (-1382)	4084 (-1388)
Pawnee	4152 (-1456)	4158 (-1462)
L. Cherokee Shale	4231 (-1535)	4238 (-1542)
Johnson Zone	4274 (-1578)	4280 (-1584)
Mississippian	4357 (-1661)	4463 (-1667)
Total Depth	4434 (-1738)	4360 (-1744)



REMARKS Log measurements were 6' shallow to Rotary meas. Loggers casing was 1' shallow to Rotary measurements. Strap was 3.11" short on DST(2). Decision was made to go with Loggers depth and move all Rotary meas. 6' uphole to match Log.

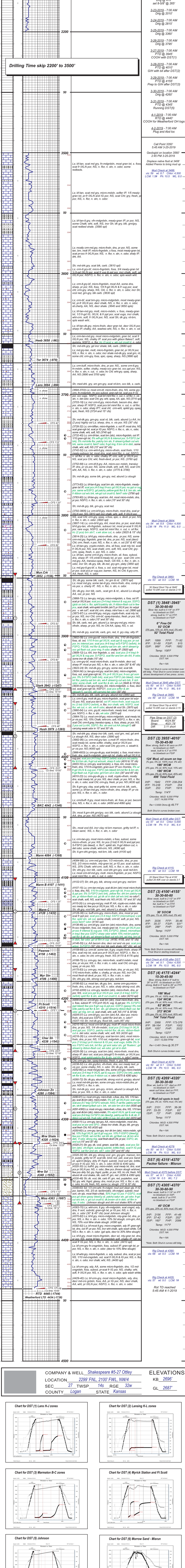
Due to drill stem test results, and no evaluation, operator elected to plug and abandon the location.

Respectfully submitted,
Tim J. Lauer
4/2/2019

Lat: 38.808832565
Long: 100.86589691
NAD 83
API: 15-109-21.587-00-00

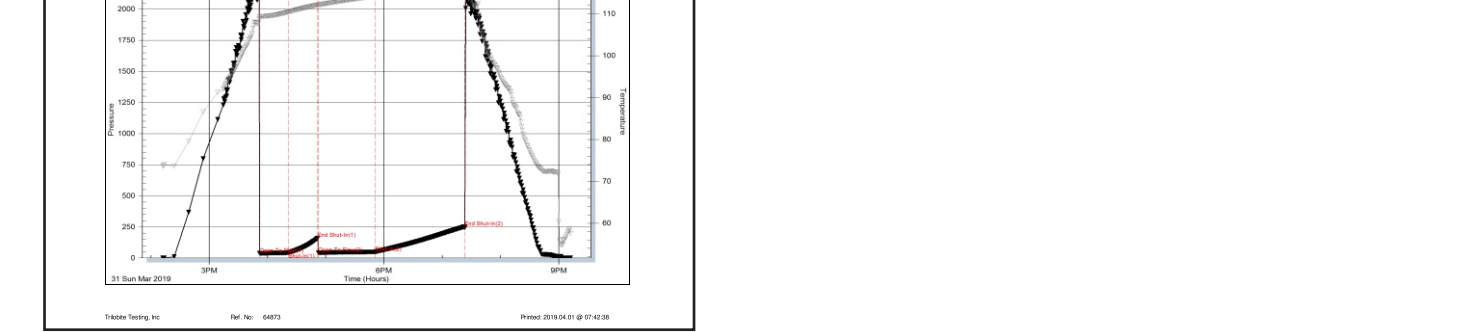
LEGEND

Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS
Chert	Dolomite				



COMPANY & WELL
Shakespeare #5-27 Otley
LOCATION
2299 FNL, 2100 FWL, NW/4
SEC 27 TWPSP 14s RGE 32w
COUNTY Logan STATE Kansas

ELEVATIONS
KB 2696'
GL 2688'





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL 62881

Ottley 5-27

Job Ticket: 64873

DST#: 1

ATTN: Tim Lauer

Test Start: 2019.03.26 @ 13:41:15

GENERAL INFORMATION:

Formation: **Lans. H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:51:00

Time Test Ended: 20:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 3848.00 ft (KB) To 3945.00 ft (KB) (TVD)

Reference Elevations: 2696.00 ft (KB)

Total Depth: 3945.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8374

Inside

Press@RunDepth: 92.98 psig @ 3915.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.26

End Date: 2019.03.26

Last Calib.: 2019.03.27

Start Time: 13:41:15

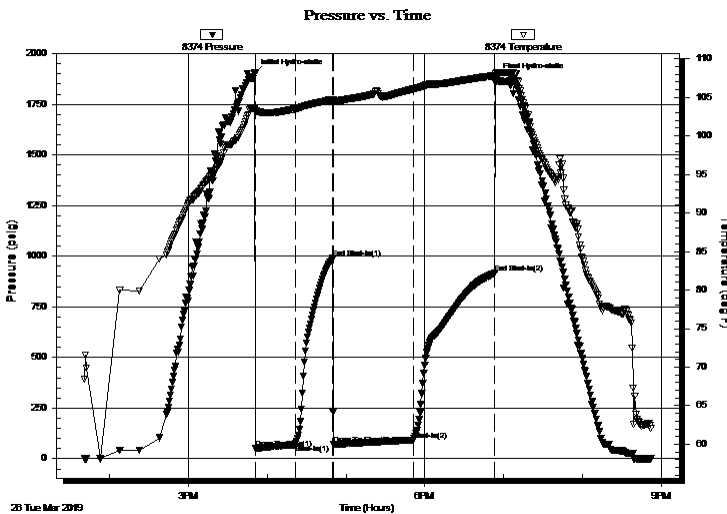
End Time: 20:52:00

Time On Btm: 2019.03.26 @ 15:50:45

Time Off Btm: 2019.03.26 @ 18:54:30

TEST COMMENT: IF: Built to 5 1/8" blow
IS: No return blow
FF: Built to 11" blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.76	103.65	Initial Hydro-static
1	51.23	103.08	Open To Flow (1)
31	68.81	103.49	Shut-In(1)
60	989.49	104.69	End Shut-In(1)
60	71.26	104.46	Open To Flow (2)
121	92.98	106.07	Shut-In(2)
183	915.87	107.81	End Shut-In(2)
184	1882.39	108.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
92.00	ocm 10%o 90%m / 6" oil on top	1.29

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL 62881

Ottley 5-27

Job Ticket: 64873

DST#: 1

ATTN: Tim Lauer

Test Start: 2019.03.26 @ 13:41:15

GENERAL INFORMATION:

Formation: **Lans. H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:51:00

Time Test Ended: 20:52:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 3848.00 ft (KB) To 3945.00 ft (KB) (TVD)

Reference Elevations: 2696.00 ft (KB)

Total Depth: 3945.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8968 Outside

Press@RunDepth: psig @ 3915.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.26

End Date: 2019.03.26

Last Calib.: 2019.03.27

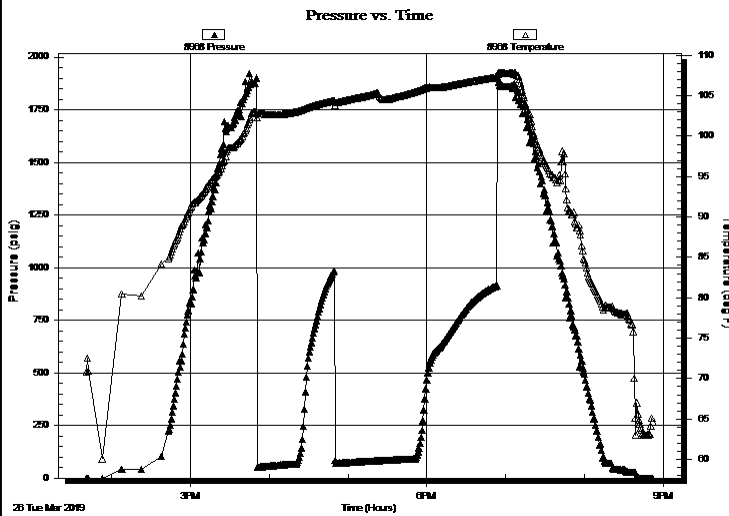
Start Time: 13:41:15

End Time: 20:52:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 5 1/8" blow
IS: No return blow
FF: Built to 11" blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
92.00	ocm 10%o 90%m / 6" oil on top	1.29

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL 62881

Ottley 5-27

Job Ticket: 64873

DST#: 1

ATTN: Tim Lauer

Test Start: 2019.03.26 @ 13:41:15

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
92.00	ocm 10%o 90%m / 6" oil on top	1.291

Total Length: 92.00 ft Total Volume: 1.291 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

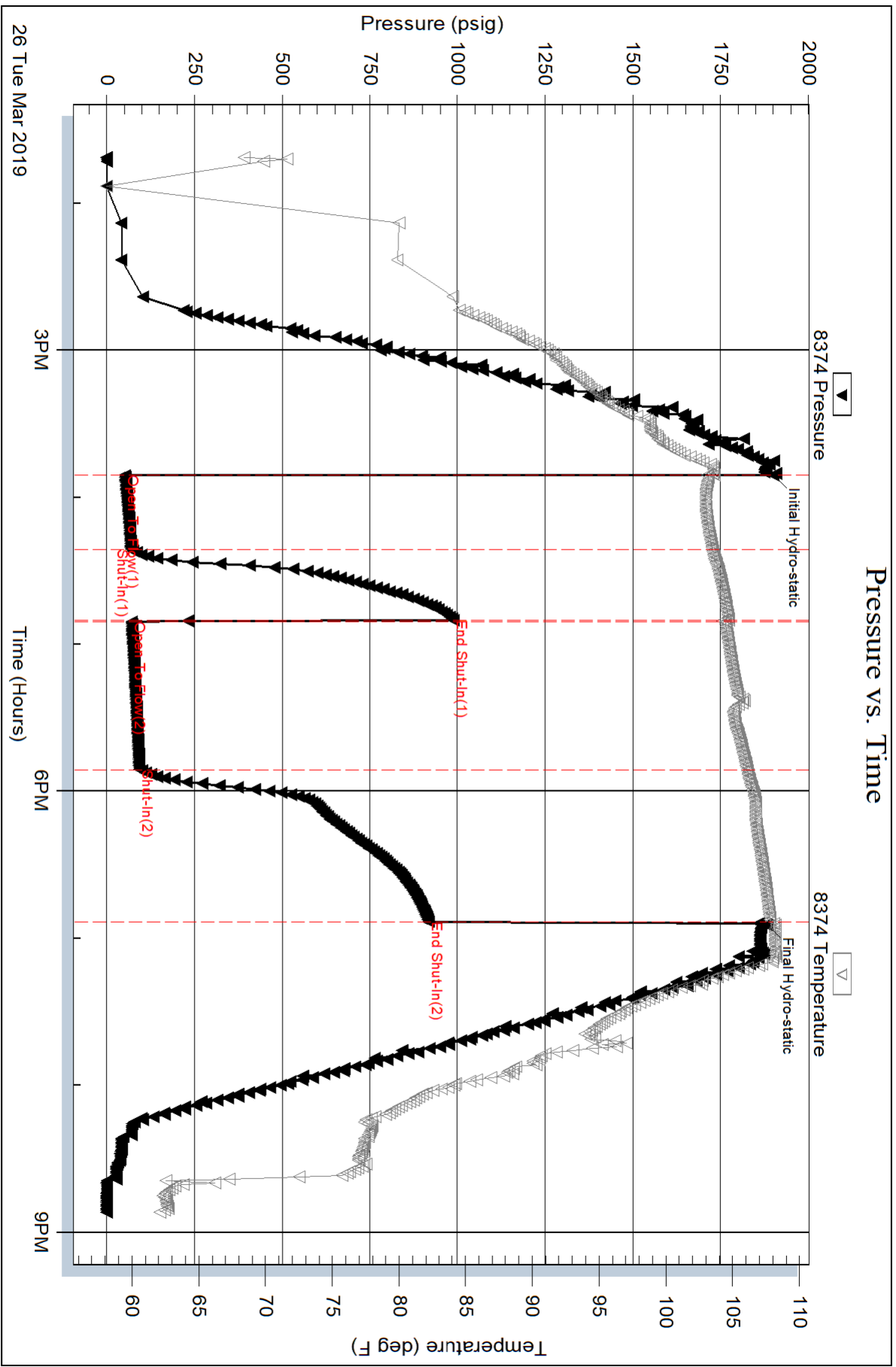
Serial #: 8374

Inside

Shakespeare Oil Co. Inc.

Ottley 5-27

DST Test Number: 1

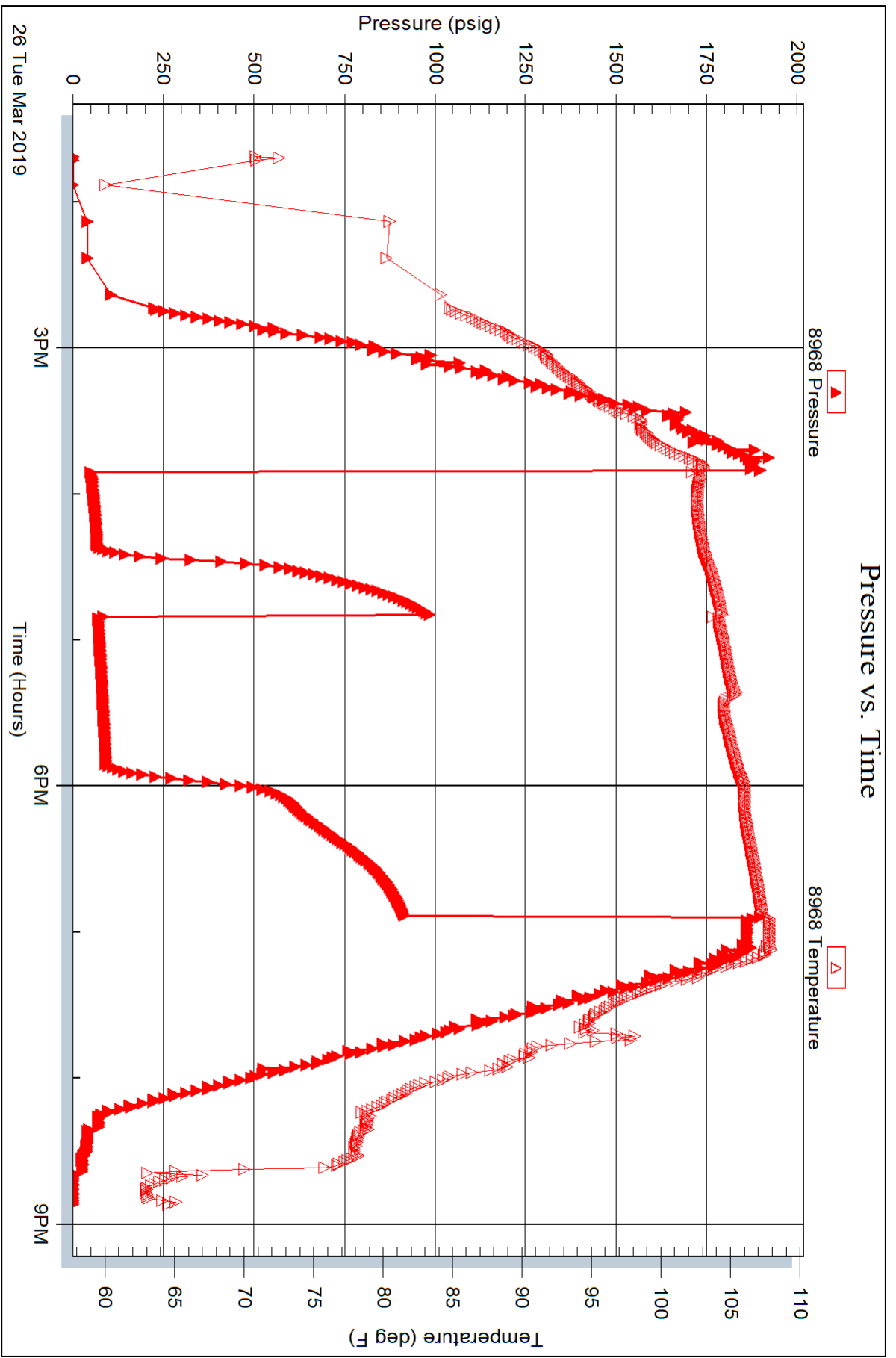


Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Ottley 5-27

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64873

Printed: 2019.03.27 @ 09:11:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881
ATTN: Tim Lauer

Ottley 5-27

Job Ticket: 64874

DST#: 2

Test Start: 2019.03.27 @ 23:57:15

GENERAL INFORMATION:

Formation: **K-L**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:59:45
 Tester: Mike Roberts
 Time Test Ended: 06:57:45
 Unit No: 81
 Interval: **3955.00 ft (KB) To 4010.00 ft (KB) (TVD)**
 Reference Elevations: 2696.00 ft (KB)
 Total Depth: 4010.00 ft (KB) (TVD)
 2691.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 5.00 ft

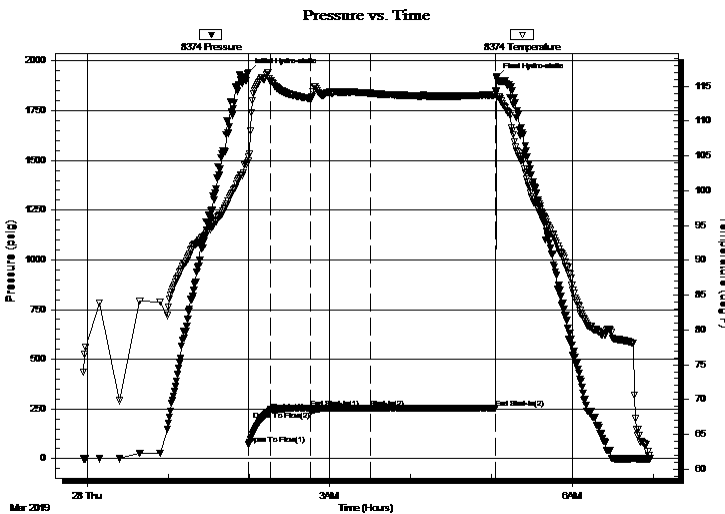
Serial #: 8374

Inside

Press@RunDepth: 254.33 psig @ 3991.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.03.27 End Date: 2019.03.28 Last Calib.: 2019.03.28
 Start Time: 23:57:15 End Time: 06:57:45 Time On Btm: 2019.03.28 @ 01:59:30
 Time Off Btm: 2019.03.28 @ 05:03:30

TEST COMMENT: IF: Built to 48" blow ...BOB in 90 seconds
 IS: No return blow
 FF: Built to 4 1/4" blow
 FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1942.37	104.86	Initial Hydro-static
1	70.97	104.25	Open To Flow (1)
17	238.05	115.72	Shut-In(1)
46	253.48	113.26	End Shut-In(1)
46	238.13	113.25	Open To Flow (2)
91	254.33	114.01	Shut-In(2)
184	254.67	113.78	End Shut-In(2)
184	1915.66	114.18	Final Hydro-static

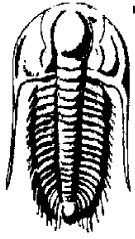
Recovery

Length (ft)	Description	Volume (bbl)
124.00	Thick mud.....oil skim on top	1.74
186.00	w cm 10%w 90%m	2.61
186.00	w cm 40%w 60%m	2.61

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881
ATTN: Tim Lauer

Ottley 5-27

Job Ticket: 64874

DST#: 2

Test Start: 2019.03.27 @ 23:57:15

GENERAL INFORMATION:

Formation: **K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:59:45

Time Test Ended: 06:57:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 3955.00 ft (KB) To 4010.00 ft (KB) (TVD)

Reference Elevations: 2696.00 ft (KB)

Total Depth: 4010.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8968 Outside

Press@RunDepth: psig @ 3991.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.27

End Date:

2019.03.28

Last Calib.:

1899.12.30

Start Time: 23:57:15

End Time:

06:57:45

Time On Btm:

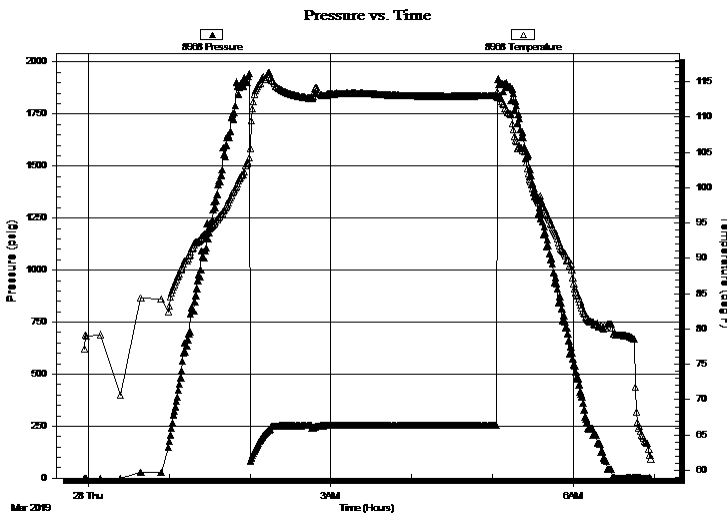
Time Off Btm:

TEST COMMENT: IF: Built to 48" blow ...BOB in 90 seconds

IS: No return blow

FF: Built to 4 1/4" blow

FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	Thick mud....oil skim on top	1.74
186.00	w cm 10%w 90%m	2.61
186.00	w cm 40%w 60%m	2.61

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.Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881

Ottley 5-27

Job Ticket: 64874

DST#: 2

ATTN: Tim Lauer

Test Start: 2019.03.27 @ 23:57:15

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:

14000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	Thick mud....oil skim on top	1.739
186.00	w cm 10%w 90%m	2.609
186.00	w cm 40%w 60%m	2.609

Total Length: 496.00 ft Total Volume: 6.957 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

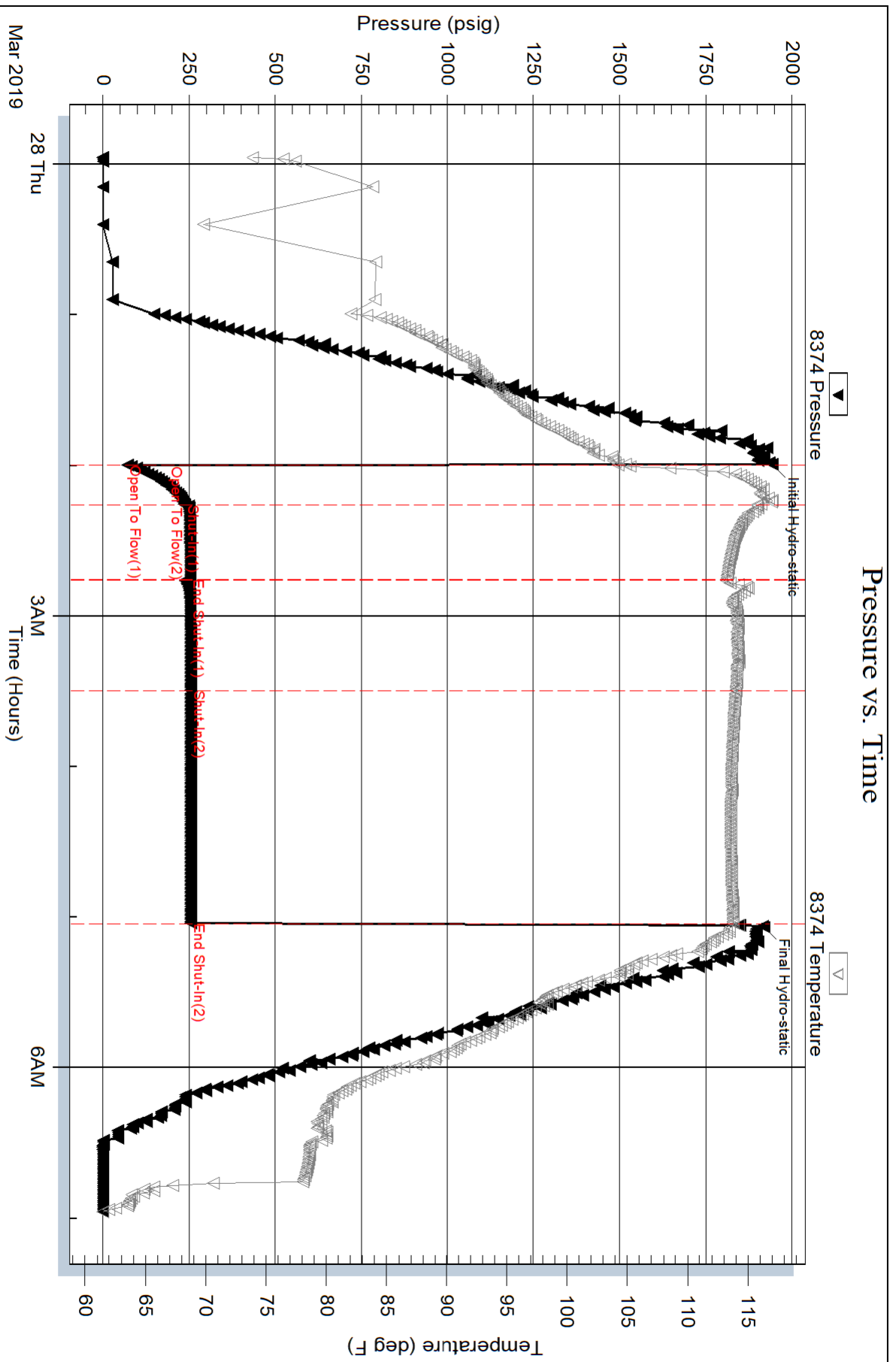
Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .658@ 49.7= 14,000 ppm .

Oil Skim on top of tool

Pressure vs. Time

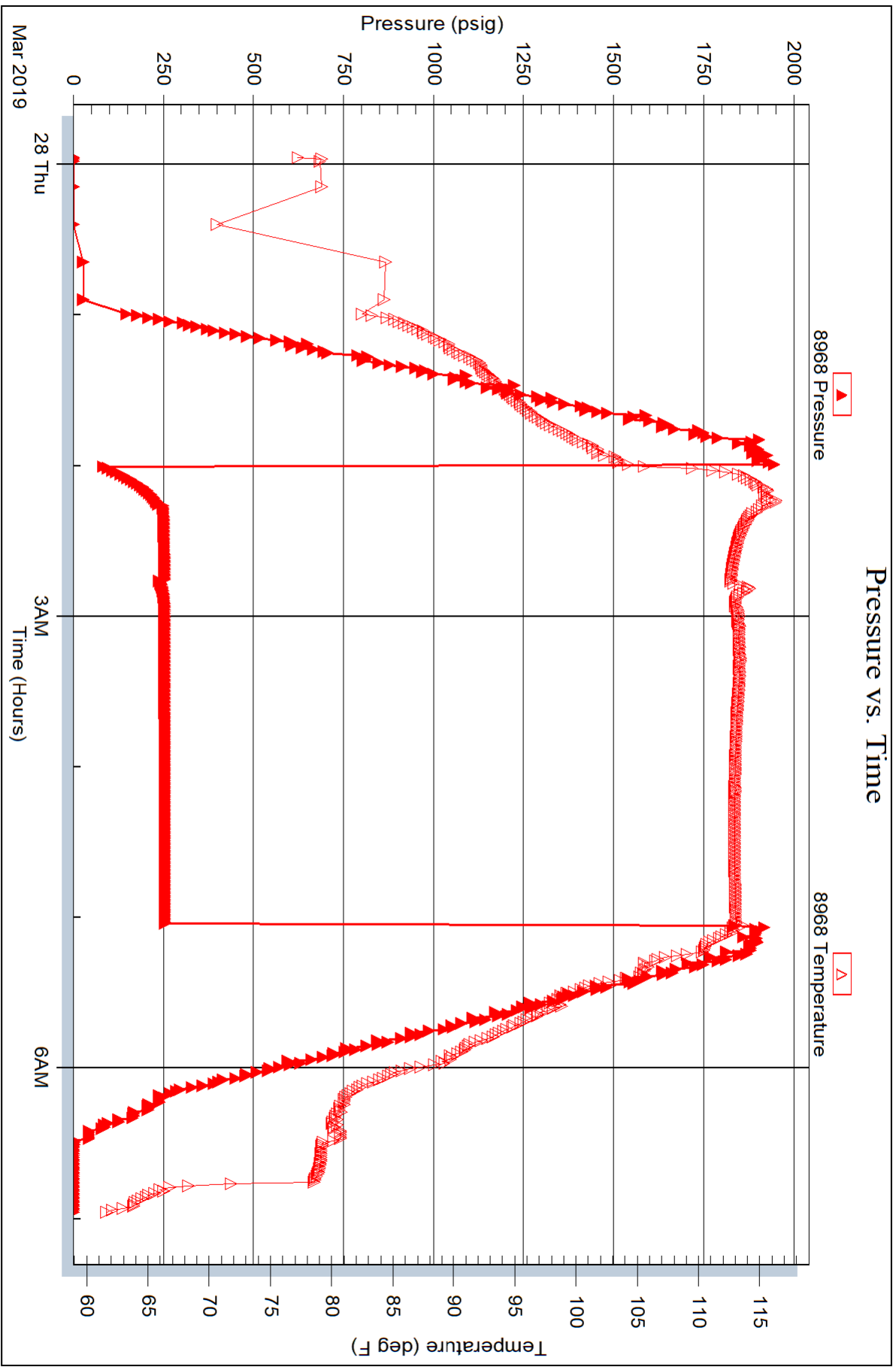


Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Ottley 5-27

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881
ATTN: Tim Lauer

Ottley 5-27

Job Ticket: 64875

DST#: 3

Test Start: 2019.03.29 @ 00:48:15

GENERAL INFORMATION:

Formation: **Marm B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:35:00

Time Test Ended: 07:11:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4100.00 ft (KB) To 4155.00 ft (KB) (TVD)

Reference Elevations: 2696.00 ft (KB)

Total Depth: 4155.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8374

Inside

Press@RunDepth: 46.97 psig @ 4136.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.29

End Date:

2019.03.29

Last Calib.:

2019.03.29

Start Time:

00:48:15

End Time:

07:11:45

Time On Btm:

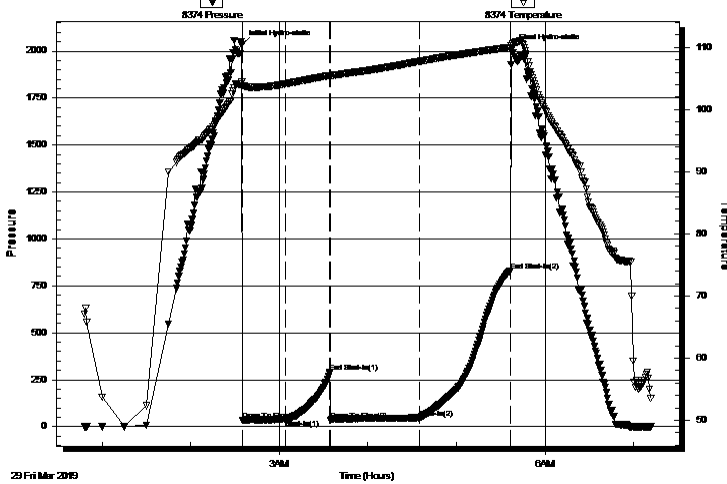
2019.03.29 @ 02:34:45

Time Off Btm:

2019.03.29 @ 05:37:45

TEST COMMENT: IF: Built to 2 1/2" blow
IS: No return blow
FF: Built to 7" blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2036.55	104.48	Initial Hydro-static
1	35.12	103.84	Open To Flow (1)
30	37.29	104.14	Shut-In(1)
60	288.49	105.47	End Shut-In(1)
60	35.33	105.42	Open To Flow (2)
120	46.97	107.72	Shut-In(2)
182	831.27	109.99	End Shut-In(2)
183	2012.53	110.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	osm 1%o 99%m	0.42

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881
ATTN: Tim Lauer

Ottley 5-27

Job Ticket: 64875 **DST#: 3**
Test Start: 2019.03.29 @ 00:48:15

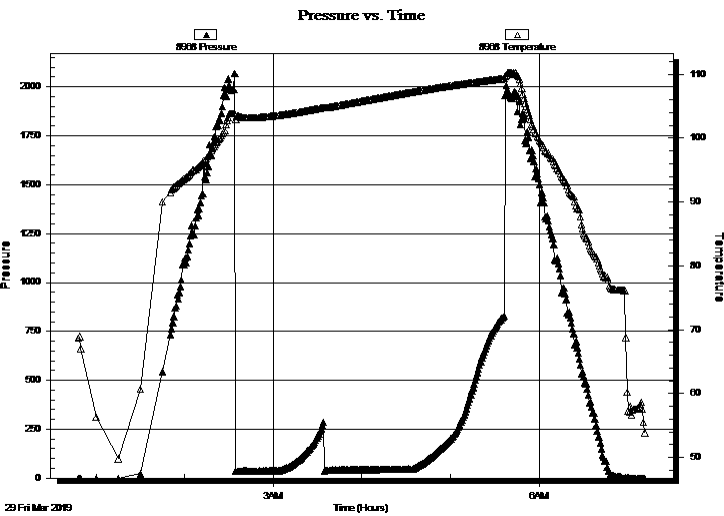
GENERAL INFORMATION:

Formation: **Marm B-C**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 02:35:00 Tester: Mike Roberts
 Time Test Ended: 07:11:45 Unit No: 81
 Interval: **4100.00 ft (KB) To 4155.00 ft (KB) (TVD)**
 Reference Elevations: 2696.00 ft (KB)
 Total Depth: 4155.00 ft (KB) (TVD) 2691.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8968 Outside

Press@RunDepth: psig @ 4136.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.03.29 End Date: 2019.03.29 Last Calib.: 1899.12.30
 Start Time: 00:48:15 End Time: 07:11:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to 2 1/2" blow
 IS: No return blow
 FF: Built to 7" blow
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	osm 1%o 99%m	0.42

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.Inc.

27-14s-32w Logan Co

202 W. Main St

Ottley 5-27

Salem IL

Job Ticket: 64875

DST#: 3

62881

ATTN: Tim Lauer

Test Start: 2019.03.29 @ 00:48:15

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	osm 1%o 99%m	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

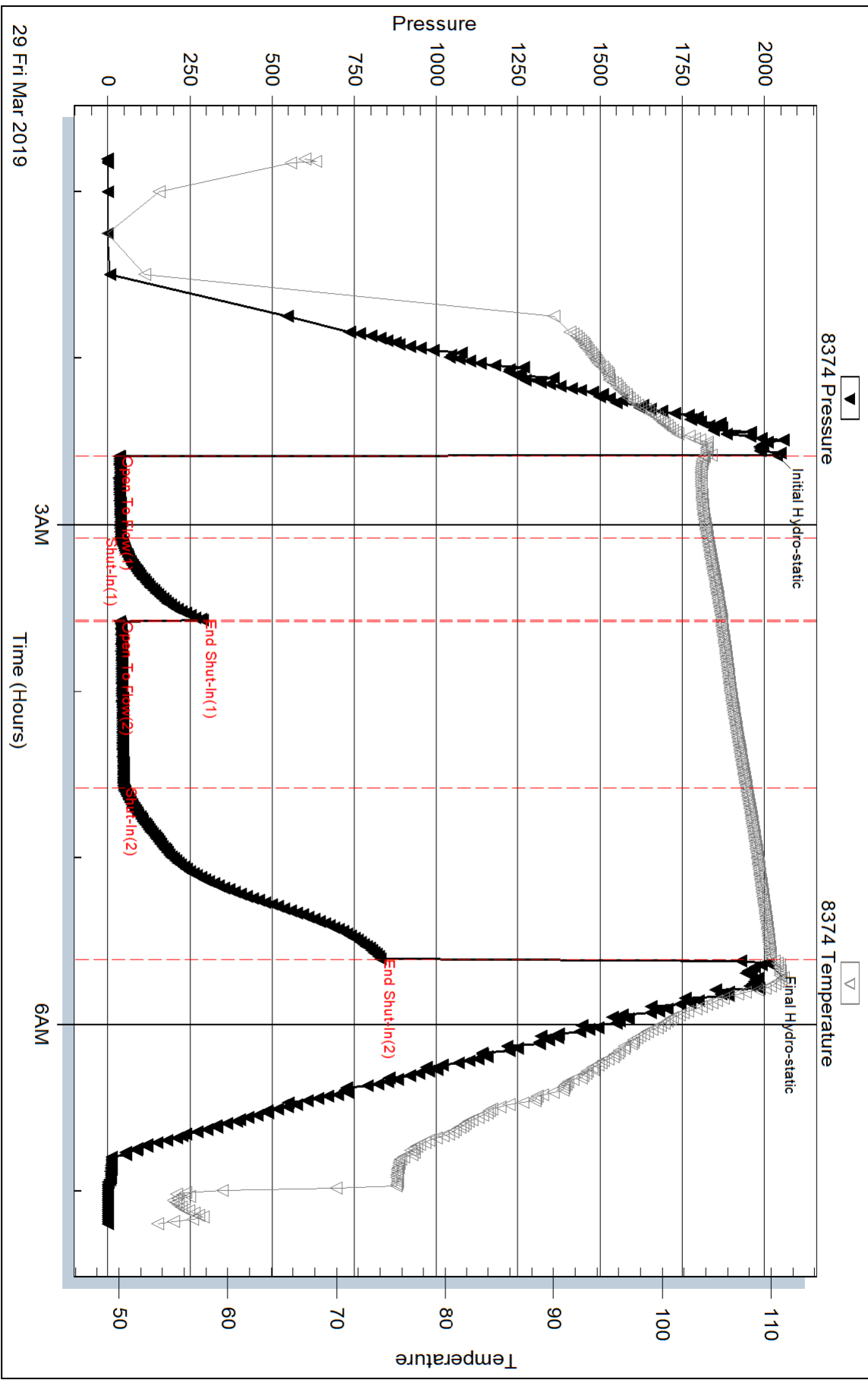
Serial #:

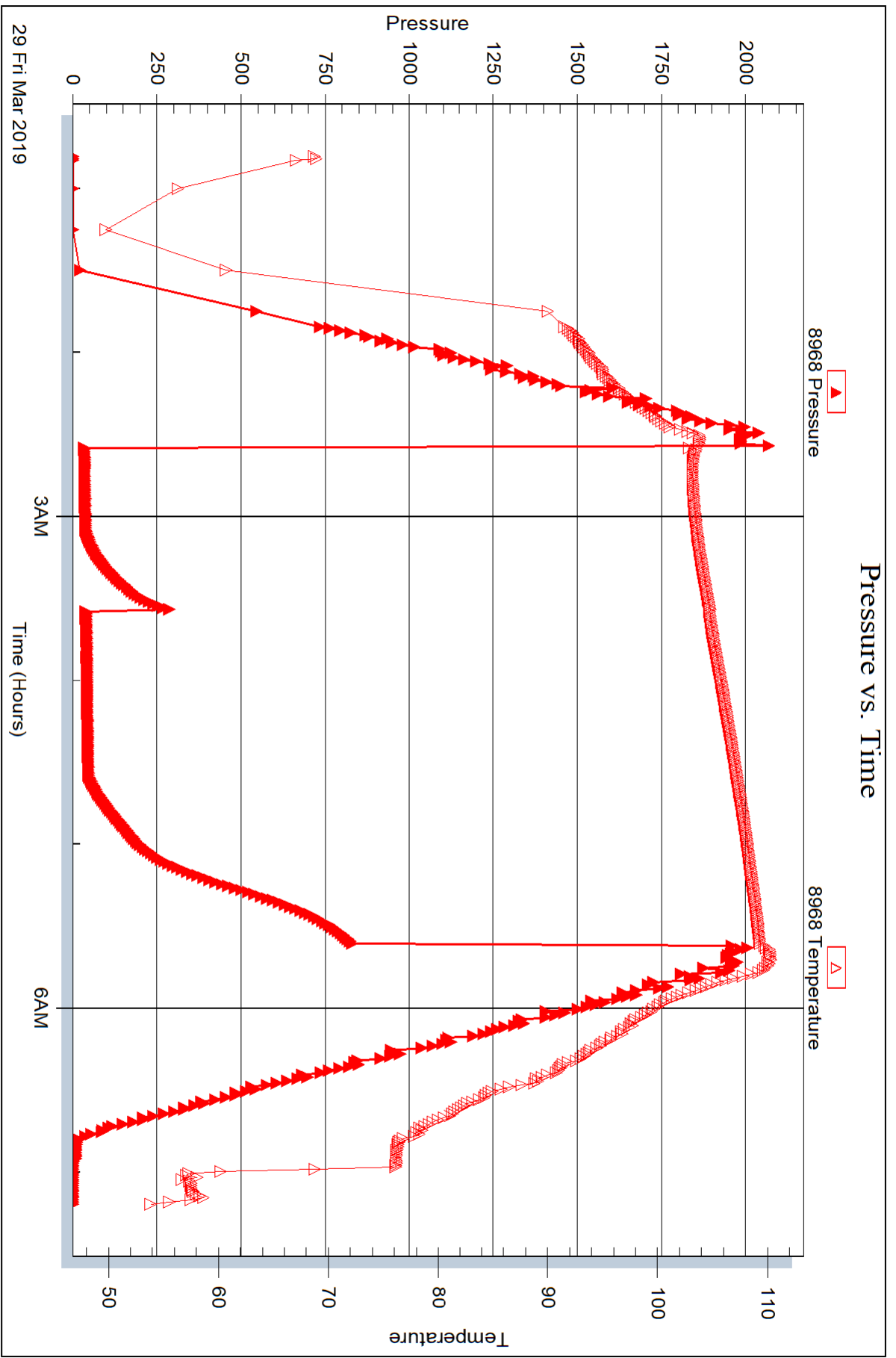
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881
ATTN: Tim Lauer

Ottley 5-27

Job Ticket: 65126

DST#: 4

Test Start: 2019.03.29 @ 20:05:15

GENERAL INFORMATION:

Formation: **Myrick Station -Ft.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:58:00

Time Test Ended: 03:03:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4175.00 ft (KB) To 4244.00 ft (KB) (TVD)

Reference Elevations: 2696.00 ft (KB)

Total Depth: 4244.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8374

Inside

Press@RunDepth: 376.08 psig @ 4211.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.29

End Date:

2019.03.30

Last Calib.:

2019.03.30

Start Time: 20:05:15

End Time:

03:03:15

Time On Btm:

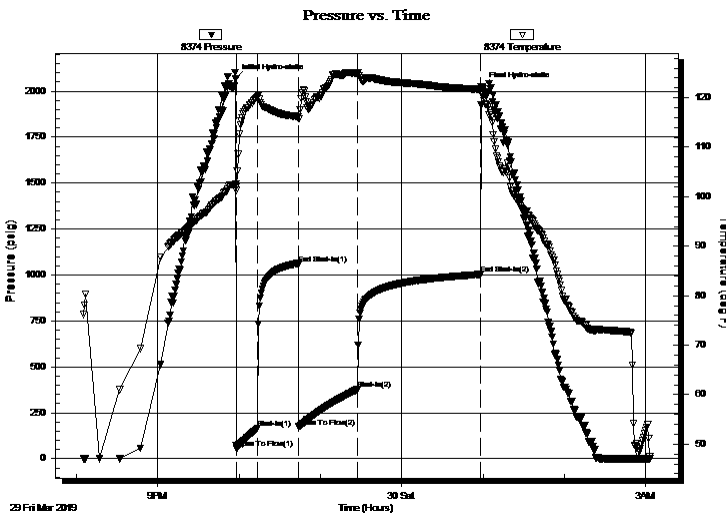
2019.03.29 @ 21:57:30

Time Off Btm:

2019.03.30 @ 00:59:15

TEST COMMENT: IF: Built to 26 1/2" blow ... BOB in 5 1/2 minutes
IS: Weak surface blow
FF: Built to 49 1/2" blow ... BOB in 5 1/2 minutes
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2068.08	102.48	Initial Hydro-static
1	58.40	102.04	Open To Flow (1)
16	164.27	120.23	Shut-In (1)
47	1057.74	116.15	End Shut-In (1)
47	173.97	115.80	Open To Flow (2)
90	376.08	124.98	Shut-In (2)
181	1002.59	121.63	End Shut-In (2)
182	2022.23	120.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	mud 100% m	2.61
124.00	w cm 10% w 90% m	1.74
62.00	mcw 30% m 70% w	0.87
372.00	mcw 20% m 80% w	5.22

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.Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881

Ottley 5-27

Job Ticket: 65126

DST#: 4

ATTN: Tim Lauer

Test Start: 2019.03.29 @ 20:05:15

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:

13000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	mud 100%m	2.609
124.00	w cm 10%w 90%m	1.739
62.00	mcw 30%m 70%w	0.870
372.00	mcw 20%m 80%w	5.218

Total Length: 744.00 ft Total Volume: 10.436 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .481@ 30.3= 13,000 ppm

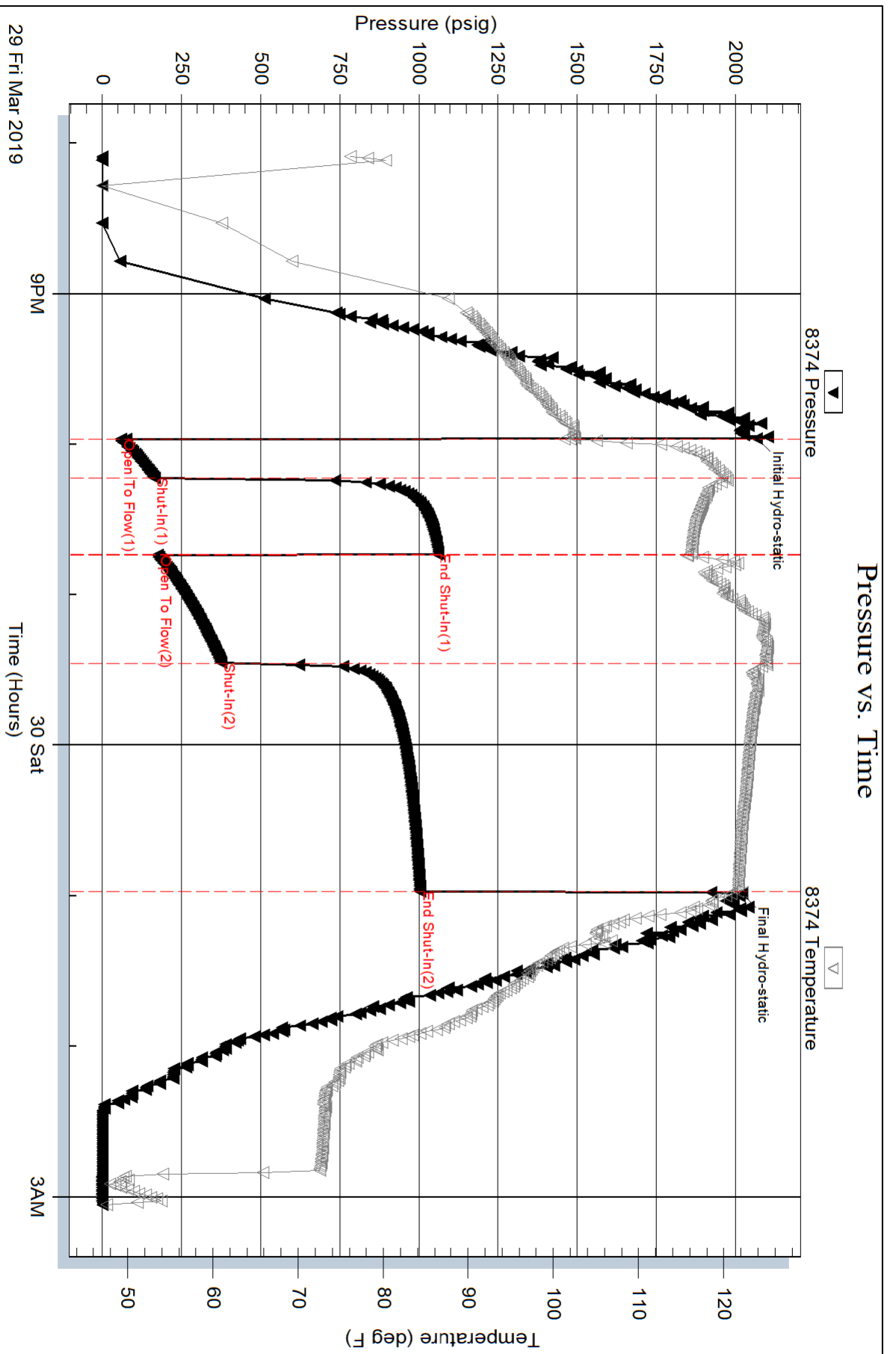
Serial #: 8374

Inside

Shakespeare Oil Co. Inc.

Ottley 5-27

DST Test Number: 4

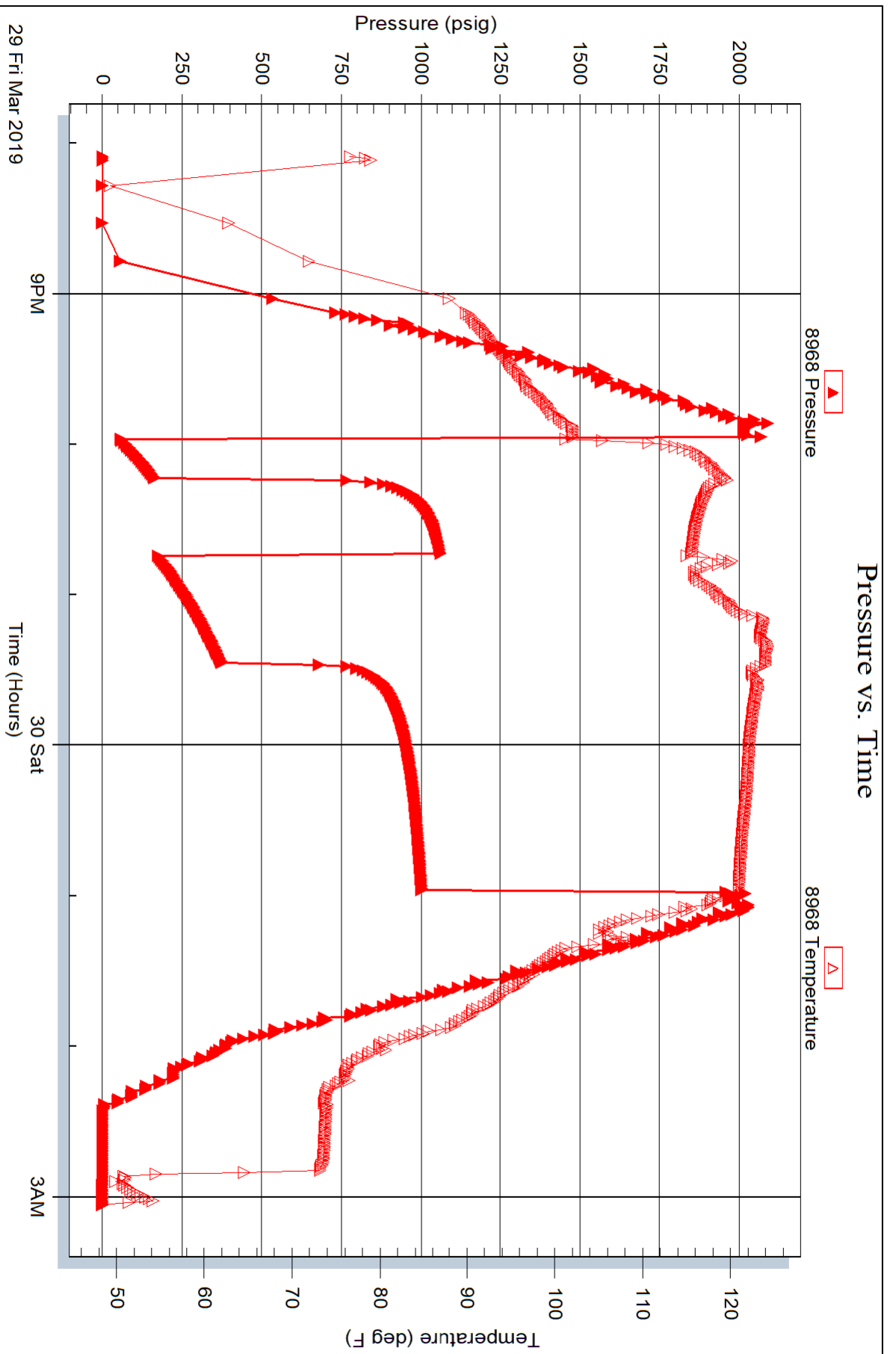


Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Ottley 5-27

DST Test Number: 4





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881
ATTN: Tim Lauer

Ottley 5-27

Job Ticket: 65127

DST#: 5

Test Start: 2019.03.30 @ 15:31:15

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:19:15

Time Test Ended: 22:27:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4269.00 ft (KB) To 4320.00 ft (KB) (TVD)

Reference Elevations: 2696.00 ft (KB)

Total Depth: 4320.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8374 Inside

Press@RunDepth: 36.76 psig @ 4306.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.30

End Date:

2019.03.30

Last Calib.:

2019.03.30

Start Time:

15:31:15

End Time:

22:27:15

Time On Btm:

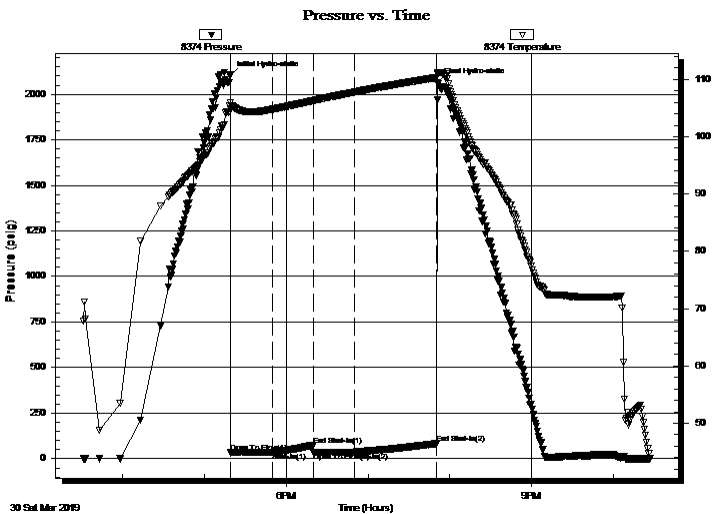
2019.03.30 @ 17:19:00

Time Off Btm:

2019.03.30 @ 19:51:00

TEST COMMENT: IF: Built to 1/2" and died
IS: No return blow
FF: Weak surface blow that died
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2101.08	105.95	Initial Hydro-static
1	33.86	104.78	Open To Flow (1)
31	35.96	104.77	Shut-In(1)
61	73.45	106.29	End Shut-In(1)
61	36.11	106.30	Open To Flow (2)
91	36.76	107.77	Shut-In(2)
152	83.13	110.28	End Shut-In(2)
152	2062.86	111.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud with oil spots in tool 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.Inc.

27-14s-32w Logan Co

202 W. Main St

Ottley 5-27

Salem IL

Job Ticket: 65127

DST#: 5

62881

Test Start: 2019.03.30 @ 15:31:15

ATTN: Tim Lauer

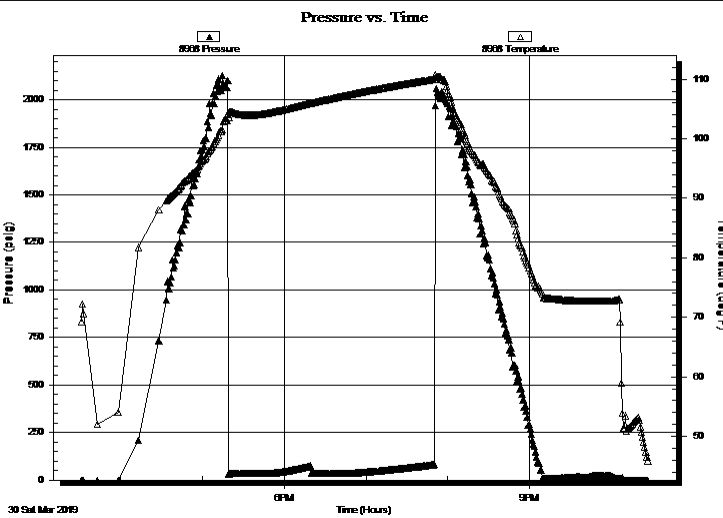
GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:19:15
 Time Test Ended: 22:27:15
 Interval: **4269.00 ft (KB) To 4320.00 ft (KB) (TVD)**
 Total Depth: 4320.00 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: 2696.00 ft (KB)
 2691.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8968 Outside

Press@RunDepth: psig @ 4306.00 ft (KB)
 Start Date: 2019.03.30 End Date: 2019.03.30
 Start Time: 15:31:15 End Time: 22:27:15
 Capacity: 8000.00 psig
 Last Calib.: 2019.03.30
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to 1/2" and died
 IS: No return blow
 FF: Weak surface blow that died
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud w ith oil spots in tool 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

FLUID SUMMARY

Shakespeare Oil Co.Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881

Ottley 5-27

Job Ticket: 65127

DST#: 5

ATTN: Tim Lauer

Test Start: 2019.03.30 @ 15:31:15

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud w ith oil spots in tool 100%m	0.014

Total Length: 1.00 ft Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

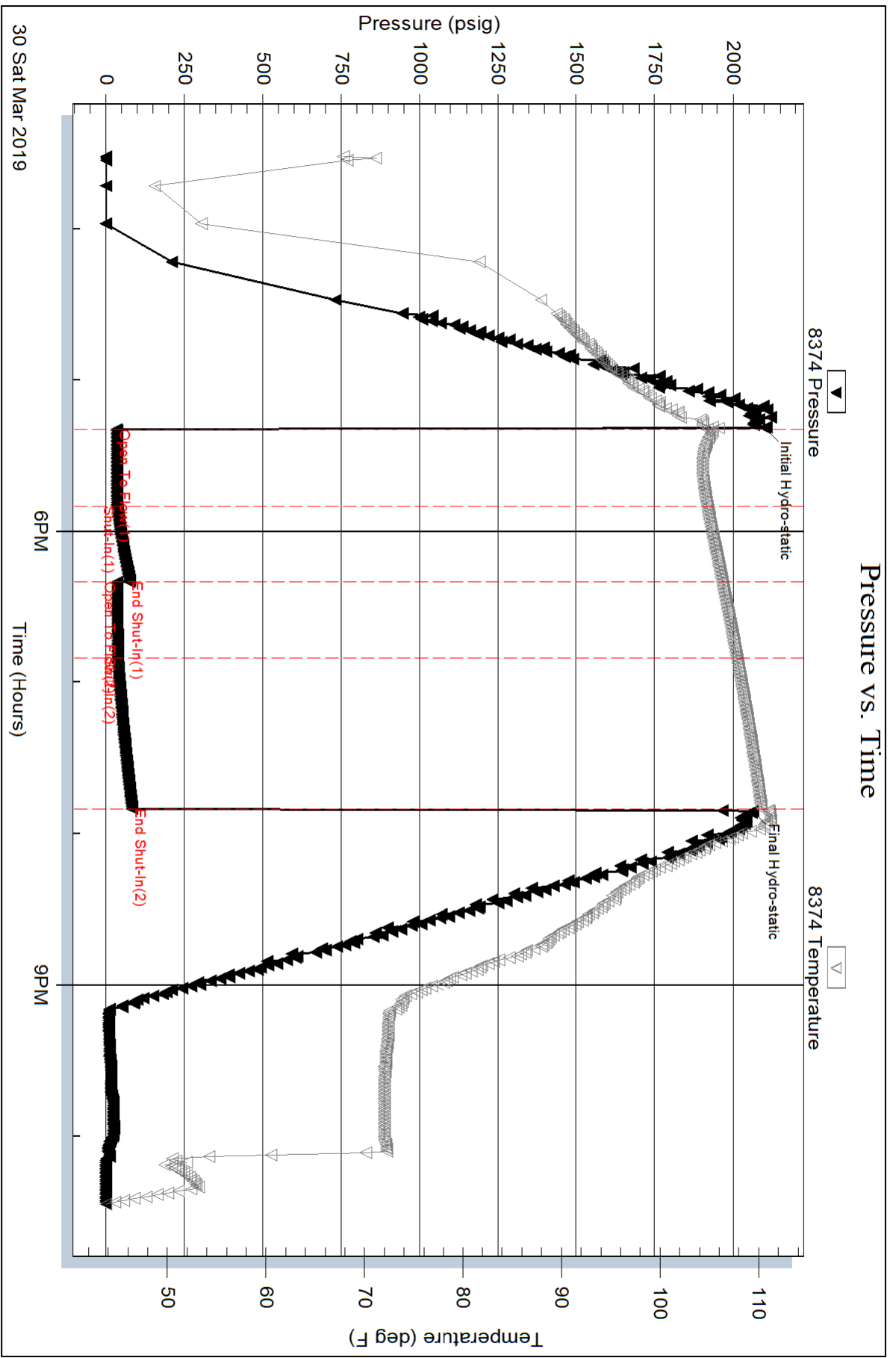
Serial #: 8374

Inside

Shakespeare Oil Co. Inc.

Ottley 5-27

DST Test Number: 5

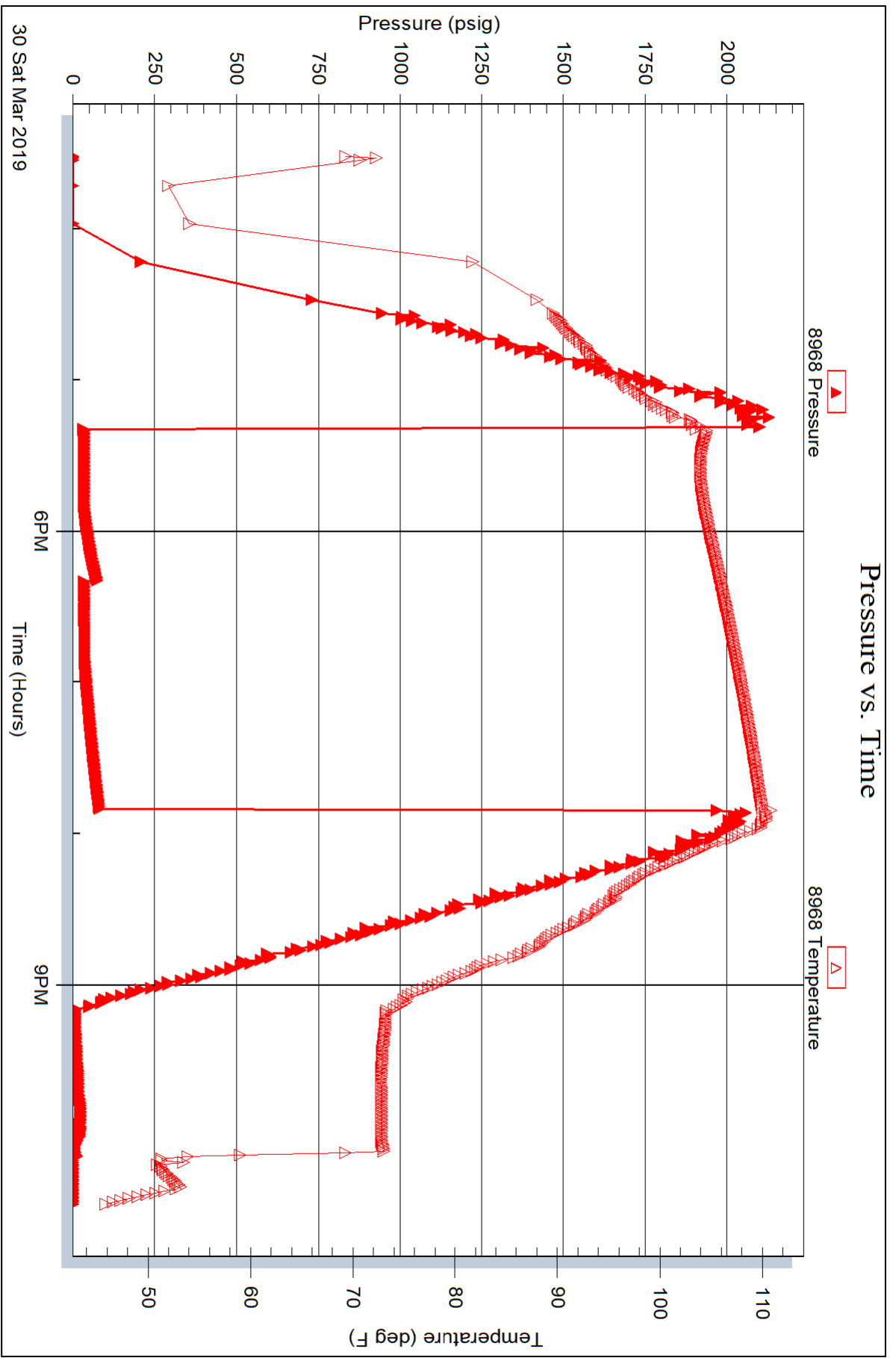


Serial #: 8968

Outside Shakespeare Oil Co. Inc.

Ottley 5-27

DST Test Number: 5





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881
ATTN: Tim Lauer

Ottley 5-27

Job Ticket: 65129

DST#: 7

Test Start: 2019.03.31 @ 14:12:00

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:51:45

Time Test Ended: 21:12:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4304.00 ft (KB) To 4370.00 ft (KB) (TVD)

Reference Elevations: 2696.00 ft (KB)

Total Depth: 4370.00 ft (KB) (TVD)

2691.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8968 Outside

Press@RunDepth: 48.98 psig @ 4345.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.31

End Date:

2019.03.31

Last Calib.:

2019.03.31

Start Time: 14:12:00

End Time:

21:12:15

Time On Btm:

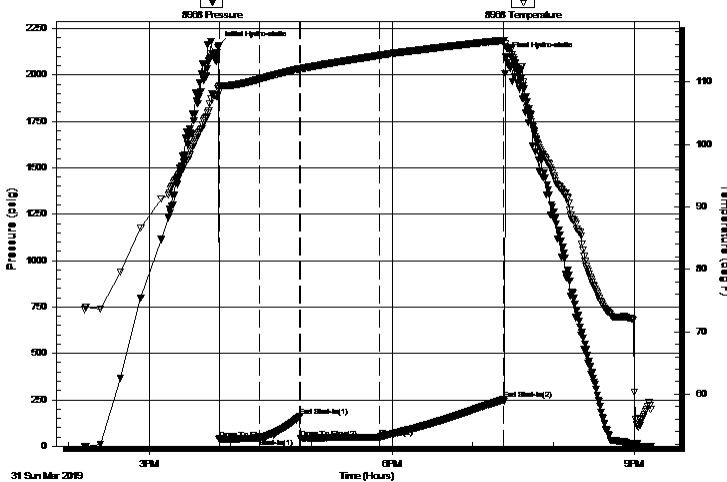
2019.03.31 @ 15:51:30

Time Off Btm:

2019.03.31 @ 19:24:15

TEST COMMENT: IF: Built to 3 1/4" blow
IS: No return blow
FF: Built to 3" blow
FS: No return blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.70	109.28	Initial Hydro-static
1	37.85	108.50	Open To Flow (1)
31	42.41	110.44	Shut-In (1)
61	160.29	112.10	End Shut-In (1)
61	41.93	112.07	Open To Flow (2)
120	48.98	114.24	Shut-In (2)
212	251.72	116.63	End Shut-In (2)
213	2099.40	115.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	ocm 20%o 80%m	0.56

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.Inc.

27-14s-32w Logan Co

202 W. Main St
Salem IL
62881

Ottley 5-27

Job Ticket: 65129

DST#: 7

ATTN: Tim Lauer

Test Start: 2019.03.31 @ 14:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	ocm 20%o 80%m	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

