



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1145467
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1145467

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Rudolph 1-22
Doc ID	1145467

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Rudolph 1-22
Doc ID	1145467

Tops

Name	Top	Datum
Base Anhydrite	2400	+635
Heebner	3946	-911
Lansing	3987	-952
Muncie Creek	4168	-1133
Stark Shale	4264	-1229
Hushpuckney	4310	-1275
BKC	4359	-1324
Pawnee	4484	-1449
L. Cherokee Shale	4560	-1525
Johnson	4604	-1569
Morrow Shale	4670	-1635
Mississippian	4694	-1659

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 135932

Invoice Date: Apr 24, 2013

Page: 1

Bill To:


Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Shak	60160	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Apr 24, 2013	5/24/13

Quantity	Item	Description	Unit Price	Amount
227.00	MAT	Rudolph #1-22	17.90	4,063.30
123.00	MAT	Class A Common	9.35	1,150.05
24.00	MAT	Pozmix	23.40	561.60
88.00	MAT	Gel	2.97	261.36
8.00	MAT	Flo Seal	35.00	280.00
622.97	SER	Cottonseed Hulls	2.48	1,544.97
1,036.32	SER	Cubic Feet	2.60	2,694.43
1.00	SER	Ton Mileage	2,483.59	2,483.59
40.00	SER	Port Collar	7.70	308.00
40.00	SER	Pump Truck Mileage	4.40	176.00
1.00	CEMENTER	Light Vehicle Mileage		
1.00	EQUIP OPER	Alan Ryan		
1.00	OPER ASSIST	Wayne McGhghy		
1.00		Brandon Wilkinson		

INT

Port Collar Cement
10502-5
DW

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3,516.05 ✓

ONLY IF PAID ON OR BEFORE
May 19, 2013

Subtotal	13,523.30
Sales Tax	524.25
Total Invoice Amount	14,047.55
Payment/Credit Applied	
TOTAL	14,047.55

ALLIED OIL & GAS SERVICES, LLC 060160

Federal Tax I.D. # 20-8851475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley 1K

DATE <u>4/22/13</u>	SEC. <u>22</u>	TWP. <u>17</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00pm</u>	JOB FINISH <u>3:00pm</u>
LEASE <u>Dundolph</u>	WELL# <u>1-22</u>	LOCATION <u>Scott 5th 4W 2nd 1/2 N</u>	COUNTY <u>Scott</u>	STATE <u>KY</u>			

OLD OR NEW (Circle one) NEW

CONTRACTOR Atkinson Cheyenne Well Service OWNER Same

TYPE OF JOB Port Collar

HOLE SIZE _____ T.D. _____

CASING SIZE 5 1/2 DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Port Collar DEPTH 2336

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 8.5

CEMENT AMOUNT ORDERED 550 SK 65/35 / 870 gal

1000 lb Halls on side used 350 SK

COMMON	<u>227</u>	@ <u>17.90</u>	<u>4063.30</u>
POZMIX	<u>123</u>	@ <u>9.35</u>	<u>1150.05</u>
GEL	<u>24</u>	@ <u>23.40</u>	<u>561.60</u>
CHLORIDE		@	
ASC		@	
<u>Elo Seal</u>	<u>88 lb</u>	@ <u>2.92</u>	<u>261.36</u>
<u>400 lb Halls 8 SK</u>		@ <u>3.50</u>	<u>280.00</u>

HANDLING 622.90 @ 2.48 1544.93

MILEAGE 2.00 @ 125.90 251.80

TOTAL 10555.71

REMARKS:

Test tool - 1250 - Open Tool - Test Halls, 1000 350 SK

W/ 400 lb Halls, Displace 8.5 BBL H₂O

Log = Test tool - 1200. Run 5 JT

Reverse Clean

one rt drill

isulats

SERVICE

DEPTH OF JOB 2336'

PUMP TRUCK CHARGE 2483.52

EXTRA FOOTAGE @ _____

MILEAGE 40 @ 7.20 288.00

MANIFOLD @ _____

1200 Well 40 @ 4.40 176.00

TOTAL 2967.52

CHARGE TO: Shakespeare

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To: Allied Oil & Gas 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.

SALES TAX (if Any) _____

TOTAL CHARGES 13,523.30

DISCOUNT 3,516.05 IF PAID IN 30 DAYS

10,007.24 Net

PRINTED NAME John Davison

SIGNATURE John Davison

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 135825

Invoice Date: Apr 17, 2013

Page: 1

Bill To:

Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Shak	60239	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Apr 17, 2013	5/17/13

Quantity	Item	Description	Unit Price	Amount
		Rudolph #1-22		
4.00	MAT	Gel	23.40	93.60
205.00	MAT	ASC	20.90	4,284.50
21.00	MAT	Salt	26.35	553.35
1,125.00	MAT	Gilsonite	0.98	1,102.50
145.00	MAT	CD-31	10.30	1,493.50
12.00	MAT	Super Flush	58.70	704.40
265.60	SER	Cubic Feet	2.48	658.69
460.80	SER	Ton Mileage	2.60	1,198.08
1.00	SER	Port Collar ✓	2,765.75	2,765.75
40.00	SER	Pump Truck Mileage	7.70	308.00
1.00	SER	Manifold Head Rental	275.00	275.00
40.00	SER	Light Vehicle Mileage	4.40	176.00
1.00	CEMENTER	LaRene Wentz		
1.00	OPER ASSIST	Paul Beaver		
1.00	OPER ASSIST	David Scariano		

INT

Port Collar Cement
10502-5



ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. 1 1/2% CHARGED
THEREAFTER. IF ACCOUNT IS
CURRENT, TAKE DISCOUNT OF

\$ 3,539.47

ONLY IF PAID ON OR BEFORE
May 12, 2013

Subtotal	13,613.37
Sales Tax	683.24
Total Invoice Amount	14,296.61
Payment/Credit Applied	
TOTAL	14,296.61

DW

ALLIED OIL & GAS SERVICES, LLC 060239

Federal Tax I.D. # 20-8851475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT Dakota, Tex

DATE <u>4-17-13</u>	SEC. <u>22</u>	TWP. <u>17</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>7:00am</u>	JOB START <u>8:30am</u>	JOB FINISH <u>6:30am</u>
LEASE <u>Reidland</u>	WELL # <u>1-22</u>	LOCATION <u>Scott City, KS 4m, 2w,</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one)		<u>1 1/2 m, winter</u>					

CONTRACTOR H-D #2 OWNER Same

TYPE OF JOB Production (Port Collar)

HOLE SIZE 7 7/8 T.D. 4940

CASING SIZE 5 1/2 DEPTH 4937.94' CEMENT

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL port collar DEPTH 2336.87'

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 43.03'

CEMENT LEFT IN CSG. 43.03'

PERFS.

DISPLACEMENT 116.99661

EQUIPMENT

PUMP TRUCK CEMENTER Kalene E. Jandt

423/281 HELPER Paul Beaver

BULK TRUCK

376/306 DRIVER Darrel Scarsiano

BULK TRUCK

DRIVER

REMARKS:
Mix 305K R.H.
Mix 12.661 Superflush
Mix 175 5K Cement
Displace with water
Land plug 180' #
float held.

Thank you

CHARGE TO: Sha Kospeare

STREET

CITY STATE ZIP

CEMENT

AMOUNT ORDERED 205 SK ASC 10250 lb

27 gal 5# gilsonite 75% CD31

12661 superflush

COMMON @

POZMIX @

GEL 45K @ 23.40 936.60

CHLORIDE @ 4284.50

ASC 205 SK @ 20.90 4284.50

Scott @ 21.40 553.35

gilsonte 1125# @ 26.35 1102.80

CD31 145# @ 10.38 1493.50

Superflush 12661 @ 58.70 704.40

HANDLING 263.6 ft³ @ 2.48 653.69

MILEAGE 11.57 mi X 40 X 2.60 1198.08

TOTAL 10088.62

10088.62

SERVICE

DEPTH OF JOB 4937.94'

PUMP TRUCK CHARGE 2765.73

EXTRA FOOTAGE @

MILEAGE MTHO 40 @ 2.20 88.00

MANIFOLD head @ 275.00

MTHO 40 @ 4.40 176.00

TOTAL 3074.73

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

I, the undersigned, do hereby request 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 Doug Roberts

SIGNATURE Doug Roberts

SALES TAX (If Any)

TOTAL CHARGES 13,113.37

DISCOUNT 3,409.47 IF PAID IN 30 DAYS

9,703.89 Net

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

INVOICE

Invoice Number: 135590

Invoice Date: Apr 1, 2013

Page: 1

Bill To:

Shakespeare Oil Co., Inc.
202 West Main St.
Salem, IL 62881

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Shak	60203	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Apr 1, 2013	5/1/13

Quantity	Item	Description	Unit Price	Amount
180.00	MAT	Rudolph #1-22	17.90	3,222.00
3.00	MAT	Class A Common	23.40	70.20
6.00	MAT	Gel	64.00	384.00
194.64	SER	Chloride	2.48	482.70
390.70	SER	Cubic Feet	2.60	1,015.82
1.00	SER	Ton Mileage	1,512.25	1,512.25
44.00	SER	Surface	7.70	338.80
1.00	SER	Pump Truck Mileage	275.00	275.00
44.00	SER	Swedge Manifold Rental	4.40	193.60
1.00	EQUIP OPER	Light Vehicle Mileage		
1.00	OPER ASSIST	Dane Retzloff		
1.00	OPER ASSIST	Paul Beaver		
1.00	OPER ASSIST	Kevin Ryan		

INT

RECEIVED
APR 15 2013

Surface Cement
10502-5

Subtotal	7,494.37
Sales Tax	305.12
Total Invoice Amount	7,799.49
Payment/Credit Applied	
TOTAL	7,799.49

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1,948.53 ✓

ONLY IF PAID ON OR BEFORE
Apr 26, 2013

DW

ALLIED OIL & GAS SERVICES, LLC 060203

Federal Tax I.D. # 20-8651476

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Oakley

DATE <u>04-1-13</u>	SEC. <u>22</u>	TWP. <u>17</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>10:00 PM</u>	JOB START <u>100 AM</u>	JOB FINISH <u>1:30 PM</u>
LEASE <u>Rudolph</u>	WELL# <u>1-22</u>	LOCATION <u>Scott City - 4N to rd 190</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>2w, 1 1/2 N, w into</u>					

CONTRACTOR HD Rig 2

OWNER Same

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>267</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>267</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>16,12</u>	
EQUIPMENT	

CEMENT

AMOUNT ORDERED 180 sks Cem 3% cc
2% gel

PUMP TRUCK # <u>423</u>	CEMENTER <u>Dane Petzloff</u>
BULK TRUCK # <u>347</u>	HELPER <u>Paul Beaver</u>
BULK TRUCK #	DRIVER <u>Kevin Ryan</u>
BULK TRUCK #	DRIVER

COMMON	<u>180 sks</u>	@ <u>17.90</u>	<u>3222.00</u>
POZMIX		@	
GEL	<u>3 sks</u>	@ <u>23.00</u>	<u>70.00</u>
CHLORIDE	<u>6 sks</u>	@ <u>64.00</u>	<u>384.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>174.64⁰⁰ x</u>	@ <u>2.18</u>	<u>402.30</u>
MILEAGE	<u>8.88 x 44 x 2.00</u>		<u>1015.82</u>
TOTAL			<u>5174.72</u>

REMARKS:

mix cement
Displace with water
Cement did circulate

Thank you.

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE	<u>1912.25</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>44</u>	@ <u>7.25</u>	<u>338.80</u>
MANIFOLD <u>Sweetys</u>	@	<u>275.00</u>
<u>LV mileage</u>	@ <u>44.00</u>	<u>193.60</u>
	@	
TOTAL <u>2319.65</u>		

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

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

To: Allied Oil & Gas 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.

SALES TAX (If Any) _____
TOTAL CHARGES 7,494.37
DISCOUNT 1948.53 IF PAID IN 30 DAYS
5,545.83 Net

PRINTED NAME Brad Roberts
SIGNATURE Brad Roberts



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

GENERAL INFORMATION:

Formation: **LKC " B - C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:54:40

Time Test Ended: 16:04:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 4014.00 ft (KB) To 4055.00 ft (KB) (TVD)

Total Depth: 4055.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3033.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 807.98 psig @ 4015.00 ft (KB)

Start Date: 2013.04.07

End Date:

2013.04.07

Start Time: 08:50:00

End Time:

16:04:54

Capacity: 8000.00 psig

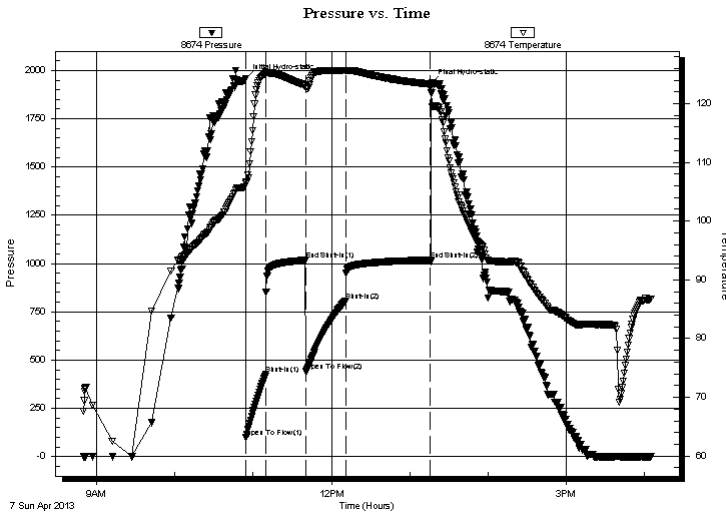
Last Calib.: 2013.04.07

Time On Btm: 2013.04.07 @ 10:54:10

Time Off Btm: 2013.04.07 @ 13:16:24

TEST COMMENT: IF- Surface Blow Built to BOB in 2 1/4min
IS- No Blow
FF- Surface Blow Built to BOB in 2 3/4min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.38	106.73	Initial Hydro-static
1	101.54	106.43	Open To Flow (1)
16	426.99	125.06	Shut-In(1)
46	1016.61	123.07	End Shut-In(1)
47	440.51	122.70	Open To Flow (2)
77	807.98	125.60	Shut-In(2)
142	1018.01	123.28	End Shut-In(2)
143	1929.50	123.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1049.00	MCW 3%m 97%w	13.63
186.00	MCW 5%m 95%w	2.61
248.00	MCW 21%m 79%w	3.48
315.00	MCW 49%m 51%w	4.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

44000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1049.00	MCW 3% <i>m</i> 97% <i>w</i>	13.631
186.00	MCW 5% <i>m</i> 95% <i>w</i>	2.609
248.00	MCW 21% <i>m</i> 79% <i>w</i>	3.479
315.00	MCW 49% <i>m</i> 51% <i>w</i>	4.419

Total Length: 1798.00 ft Total Volume: 24.138 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .165 @ 68f = 44000

Serial #: 8674

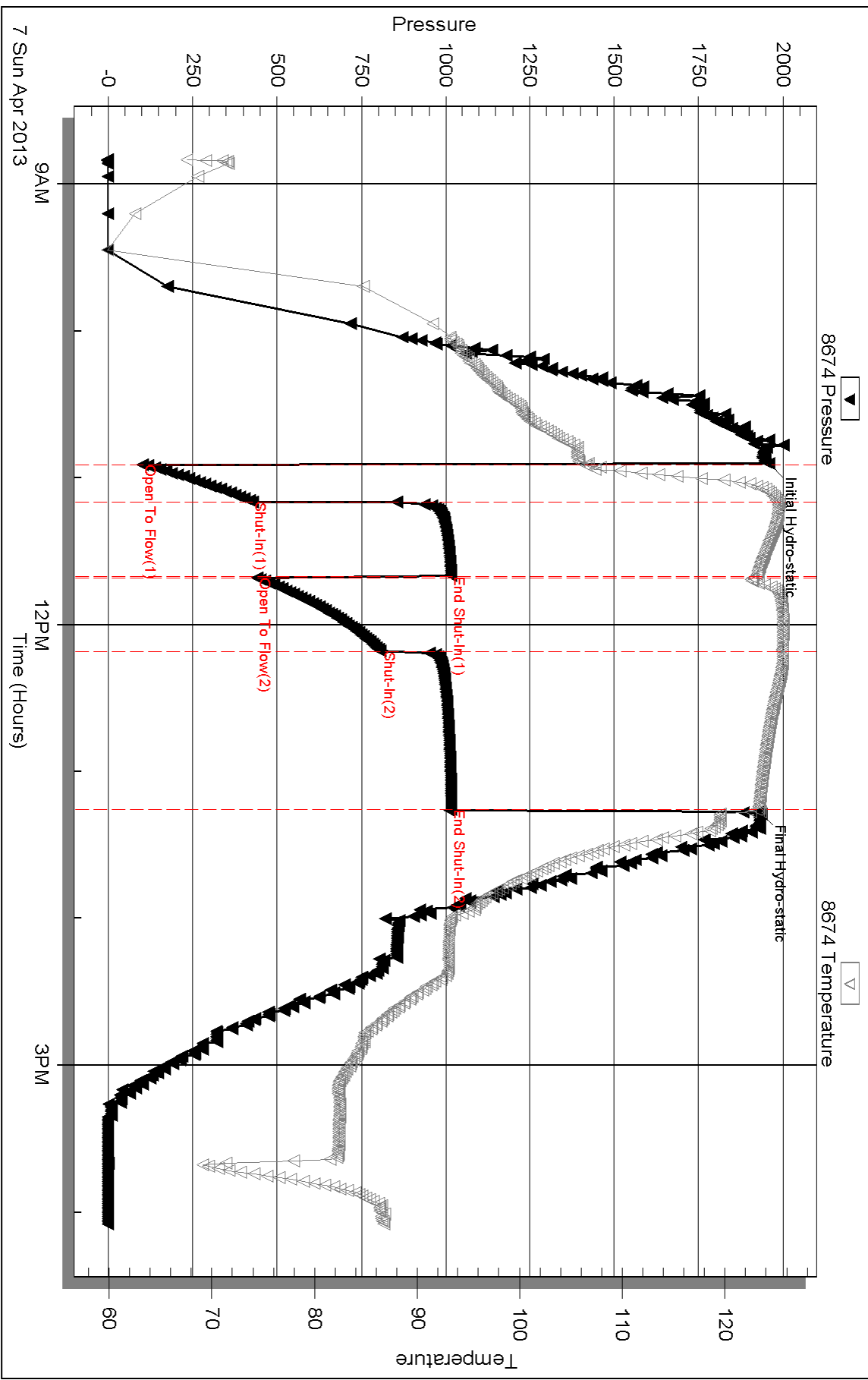
Inside

Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49228

Printed: 2013.04.09 @ 09:01:46



DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.07 @ 08:50:00

End Date: 2013.04.07 @ 16:04:54

Job Ticket #: 49228 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.22 @ 14:12:58



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

GENERAL INFORMATION:

Formation: **LKC "B - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:54:40

Time Test Ended: 16:04:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 4014.00 ft (KB) To 4055.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4055.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ RunDepth: 807.98 psig @ 4015.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.07

End Date:

2013.04.07

Last Calib.:

2013.04.07

Start Time:

08:50:00

End Time:

16:04:54

Time On Btm:

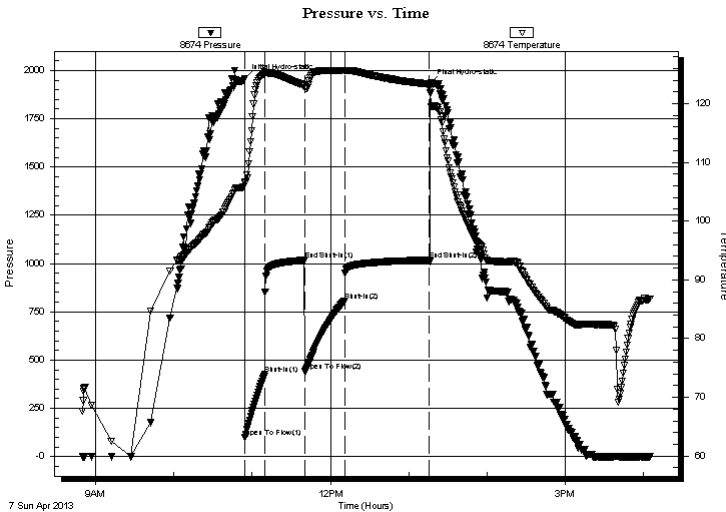
2013.04.07 @ 10:54:10

Time Off Btm:

2013.04.07 @ 13:16:24

TEST COMMENT: IF- Surface Blow Built to BOB in 2 1/4 min
IS- No Blow
FF- Surface Blow Built to BOB in 2 3/4 min
FS- No Blow

PRESSURE SUMMARY



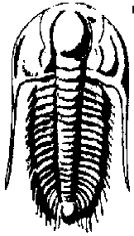
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.38	106.73	Initial Hydro-static
1	101.54	106.43	Open To Flow (1)
16	426.99	125.06	Shut-In(1)
46	1016.61	123.07	End Shut-In(1)
47	440.51	122.70	Open To Flow (2)
77	807.98	125.60	Shut-In(2)
142	1018.01	123.28	End Shut-In(2)
143	1929.50	123.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1049.00	MCW 3% <i>m</i> 97% <i>w</i>	13.63
186.00	MCW 5% <i>m</i> 95% <i>w</i>	2.61
248.00	MCW 21% <i>m</i> 79% <i>w</i>	3.48
315.00	MCW 49% <i>m</i> 51% <i>w</i>	4.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

GENERAL INFORMATION:

Formation: **LKC "B - C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:54:40

Time Test Ended: 16:04:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 4014.00 ft (KB) To 4055.00 ft (KB) (TVD)

Total Depth: 4055.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3033.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8355

Outside

Press @ Run Depth: psig @ 4015.00 ft (KB)

Start Date: 2013.04.07

End Date:

2013.04.07

Start Time: 08:50:05

End Time:

16:06:29

Capacity: 8000.00 psig

Last Calib.:

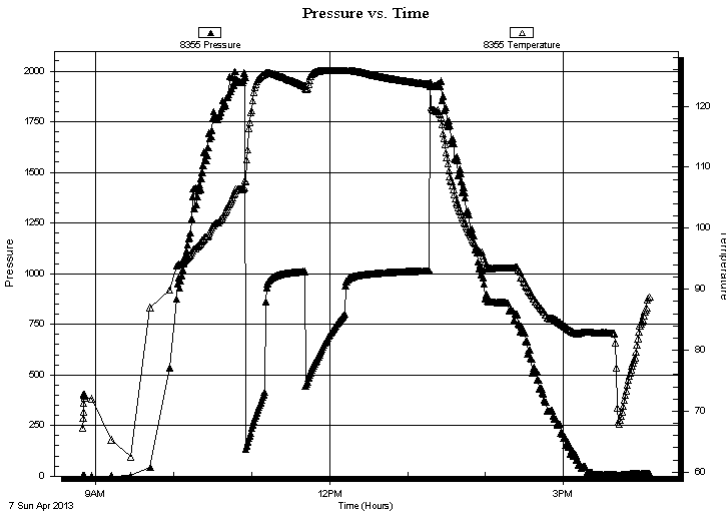
2013.04.07

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Surface Blow Built to BOB in 2 1/4 min
IS- No Blow
FF- Surface Blow Built to BOB in 2 3/4 min
FS- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
1049.00	MCW 3% <i>m</i> 97% <i>w</i>	13.63
186.00	MCW 5% <i>m</i> 95% <i>w</i>	2.61
248.00	MCW 21% <i>m</i> 79% <i>w</i>	3.48
315.00	MCW 49% <i>m</i> 51% <i>w</i>	4.42

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

Tool Information

Drill Pipe:	Length: 3895.00 ft	Diameter: 3.80 inches	Volume: 54.64 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 26000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 55.23 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4014.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3995.00	
Shut In Tool	5.00			4000.00	
Hydraulic tool	5.00			4005.00	
Packer	5.00			4010.00	20.00 Bottom Of Top Packer
Packer	4.00			4014.00	
Stubb	1.00			4015.00	
Recorder	0.00	8355	Outside	4015.00	
Recorder	0.00	8674	Inside	4015.00	
Perforations	5.00			4020.00	
Change Over Sub	1.00			4021.00	
Drill Pipe	30.00			4051.00	
Change Over Sub	1.00			4052.00	
Bullnose	3.00			4055.00	41.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49228

DST#: 1

ATTN: Tim Priest

Test Start: 2013.04.07 @ 08:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

44000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.73 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1049.00	MCW 3% <i>m</i> 97% <i>w</i>	13.631
186.00	MCW 5% <i>m</i> 95% <i>w</i>	2.609
248.00	MCW 21% <i>m</i> 79% <i>w</i>	3.479
315.00	MCW 49% <i>m</i> 51% <i>w</i>	4.419

Total Length: 1798.00 ft Total Volume: 24.138 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .165 @ 68f = 44000

Serial #: 8674

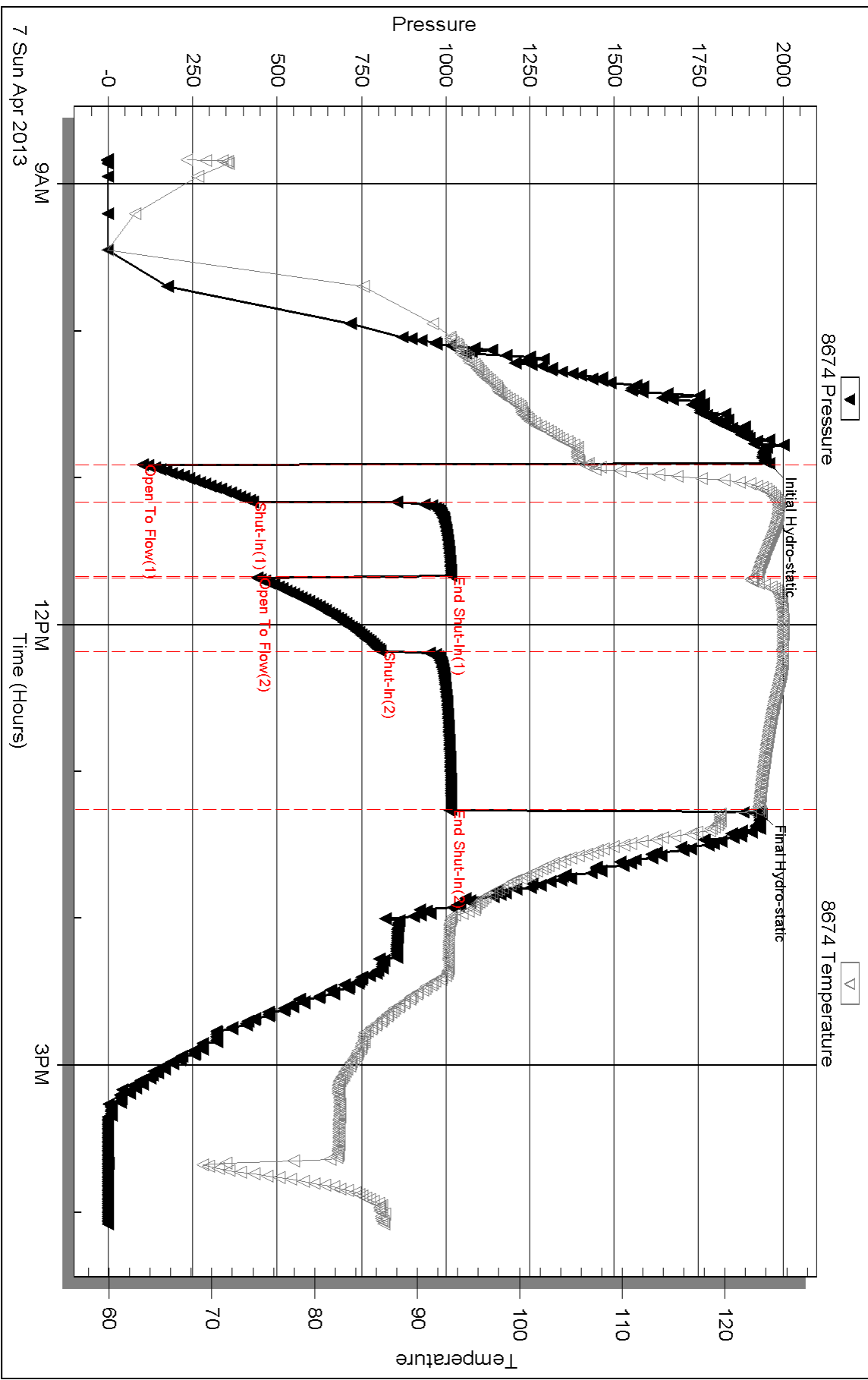
Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49228

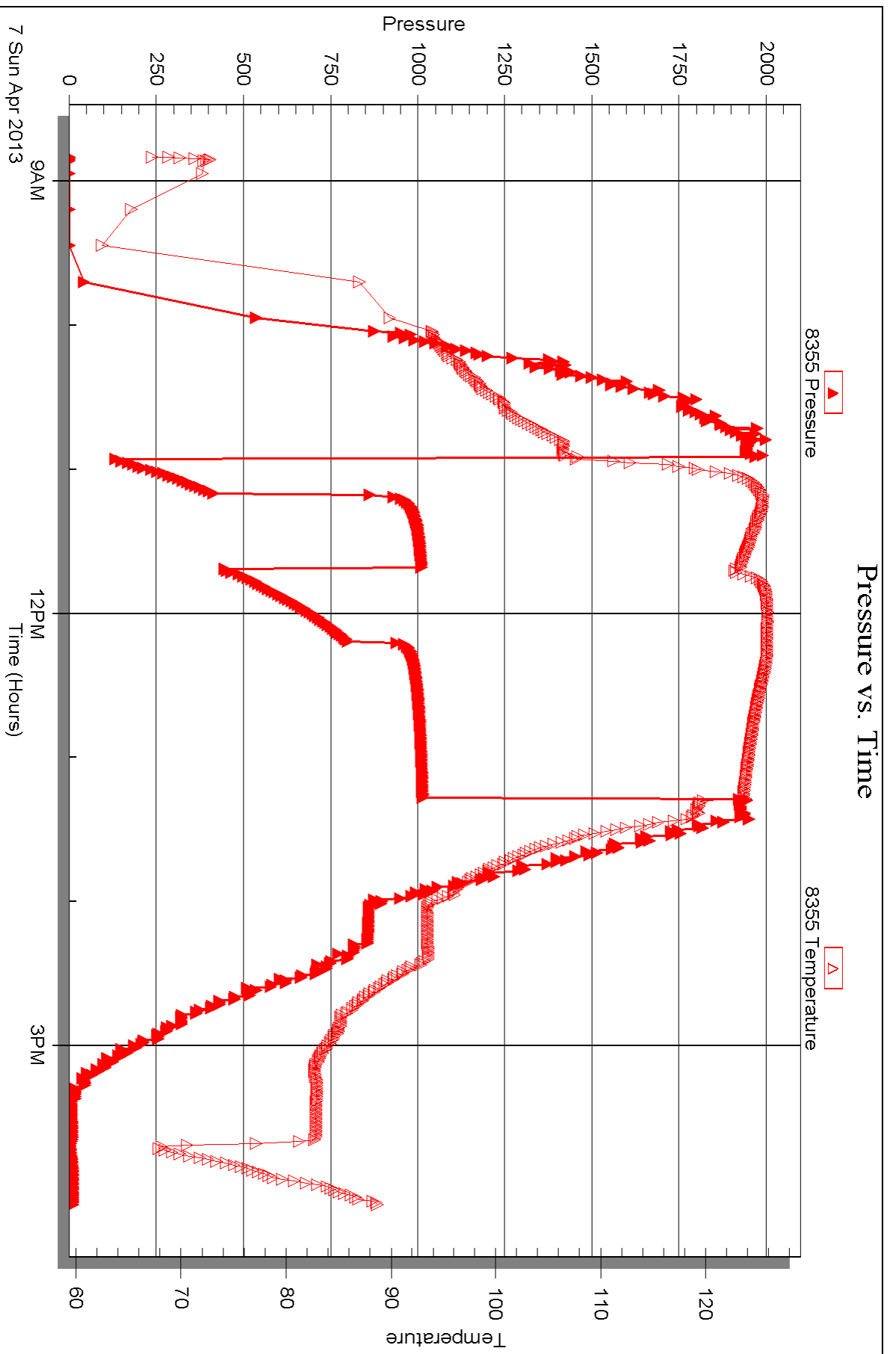
Printed: 2013.04.22 @ 14:13:00

Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.08 @ 10:04:00

End Date: 2013.04.08 @ 17:49:54

Job Ticket #: 49229 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.22 @ 14:11:57



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49229

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:09:10

Time Test Ended: 17:49:54

Test Type: Conventional Straddle (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4068.00 ft (KB) To 4092.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4100.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 134.92 psig @ 4069.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.08

End Date:

2013.04.08

Last Calib.:

2013.04.08

Start Time:

10:04:00

End Time:

17:49:54

Time On Btm:

2013.04.08 @ 12:08:40

Time Off Btm:

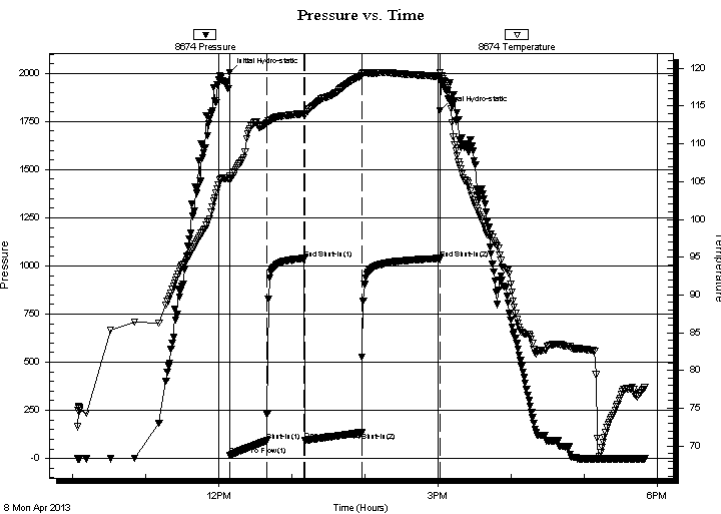
2013.04.08 @ 15:01:39

TEST COMMENT: IF- Weak Surface Blow Built to 4"

IS- No Blow

FF- Weak Surface Blow Built to 1 1/4"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.68	105.71	Initial Hydro-static
1	15.55	105.25	Open To Flow (1)
31	91.79	112.68	Shut-In(1)
62	1038.96	114.00	End Shut-In(1)
62	93.76	113.76	Open To Flow (2)
109	134.92	119.05	Shut-In(2)
173	1038.50	118.94	End Shut-In(2)
173	1807.00	119.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.59
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.31
60.00	OWCM 8%oil 34%w 58%m	0.84
82.00	OWCM 12%oil 20%w 68%m	1.15
40.00	Oil 100%	0.56

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49229

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

Tool Information

Drill Pipe:	Length: 3894.00 ft	Diameter: 3.80 inches	Volume: 54.62 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 178.00 ft	Diameter: 2.25 inches	Volume: 0.88 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 55.50 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4068.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	4092.00 ft			
Interval between Packers:	24.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4049.00	
Shut In Tool	5.00			4054.00	
Hydraulic tool	5.00			4059.00	
Packer	5.00			4064.00	20.00 Bottom Of Top Packer
Packer	4.00			4068.00	
Stubb	1.00			4069.00	
Recorder	0.00	8355	Outside	4069.00	
Recorder	0.00	8674	Inside	4069.00	
Perforations	19.00			4088.00	
Blank Off Sub	1.00			4089.00	
Top of S Packer	3.00			4092.00	24.00 Tool Interval
Packer	0.00			4092.00	
Stubb	1.00			4093.00	
Perforations	4.00			4097.00	
Recorder	0.00	8672	Below	4097.00	
Bullnose	3.00			4100.00	8.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49229

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.590
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.313
60.00	OWCM 8%oil 34%w 58%m	0.842
82.00	OWCM 12%oil 20%w 68%m	1.150
40.00	Oil 100%	0.561

Total Length: 362.00 ft Total Volume: 3.456 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .207 @ 73f = 34000

API is 22 @ 70f = 21

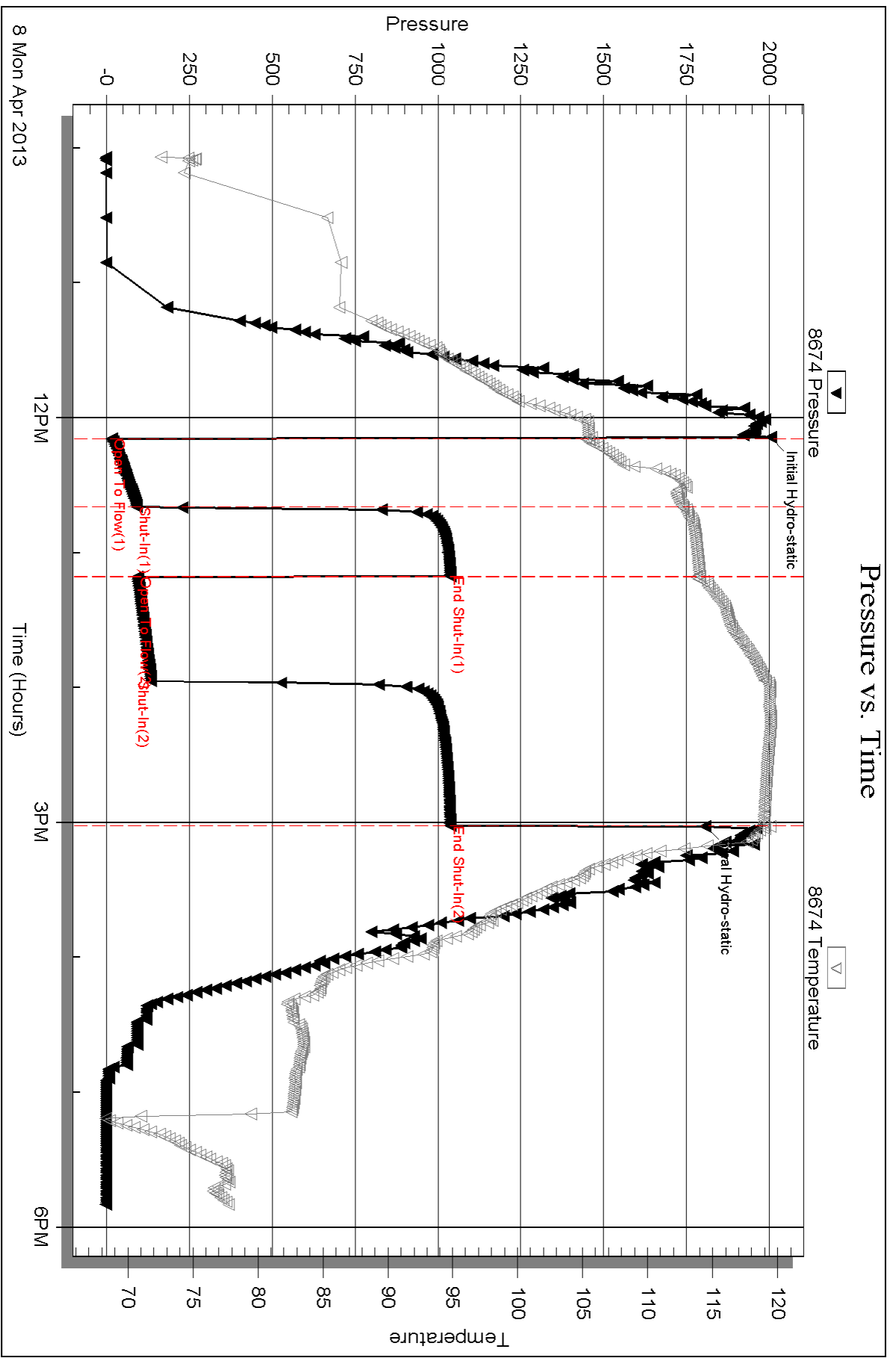
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49229

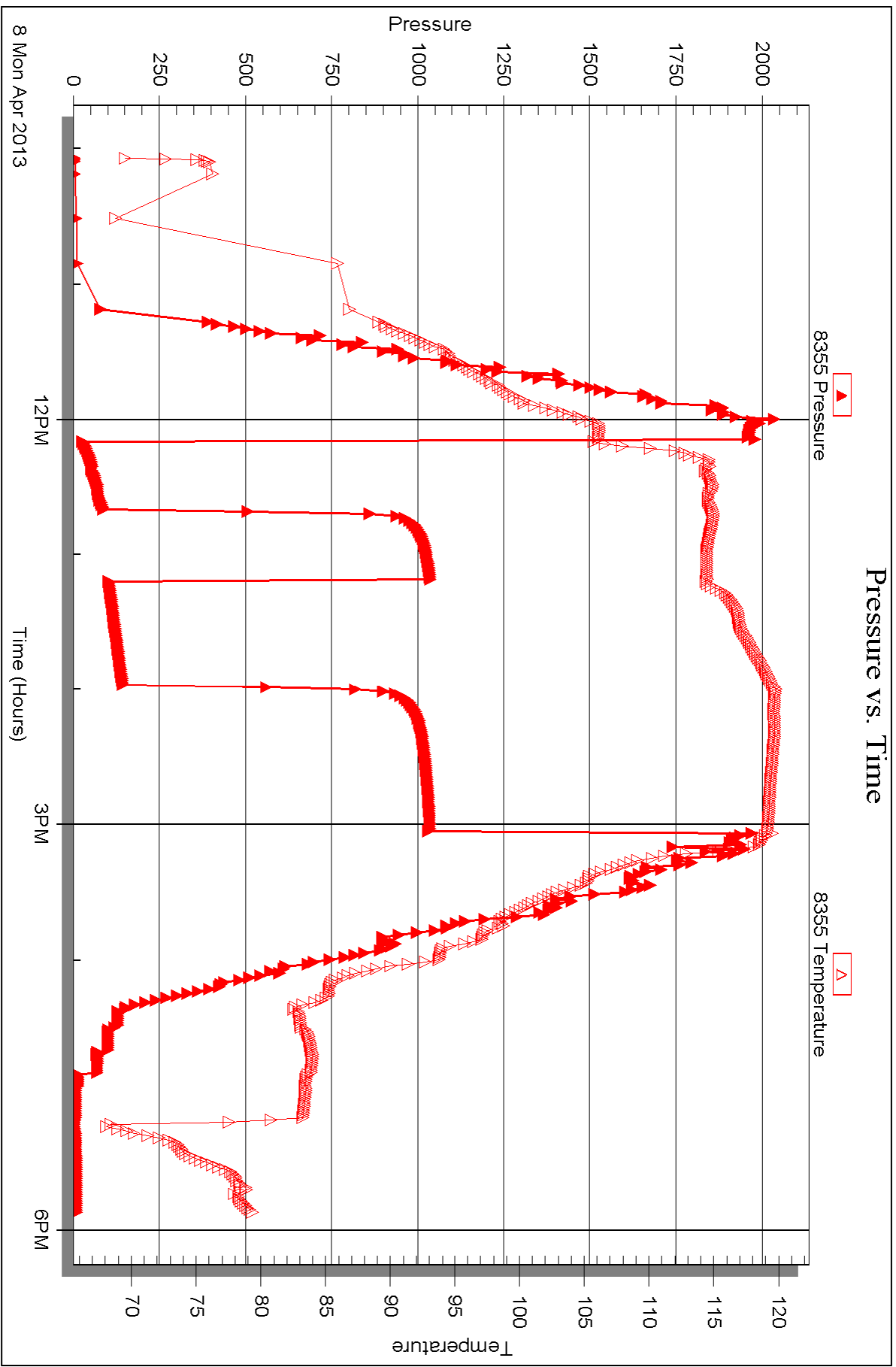
Printed: 2013.04.22 @ 14:12:00

Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 49229

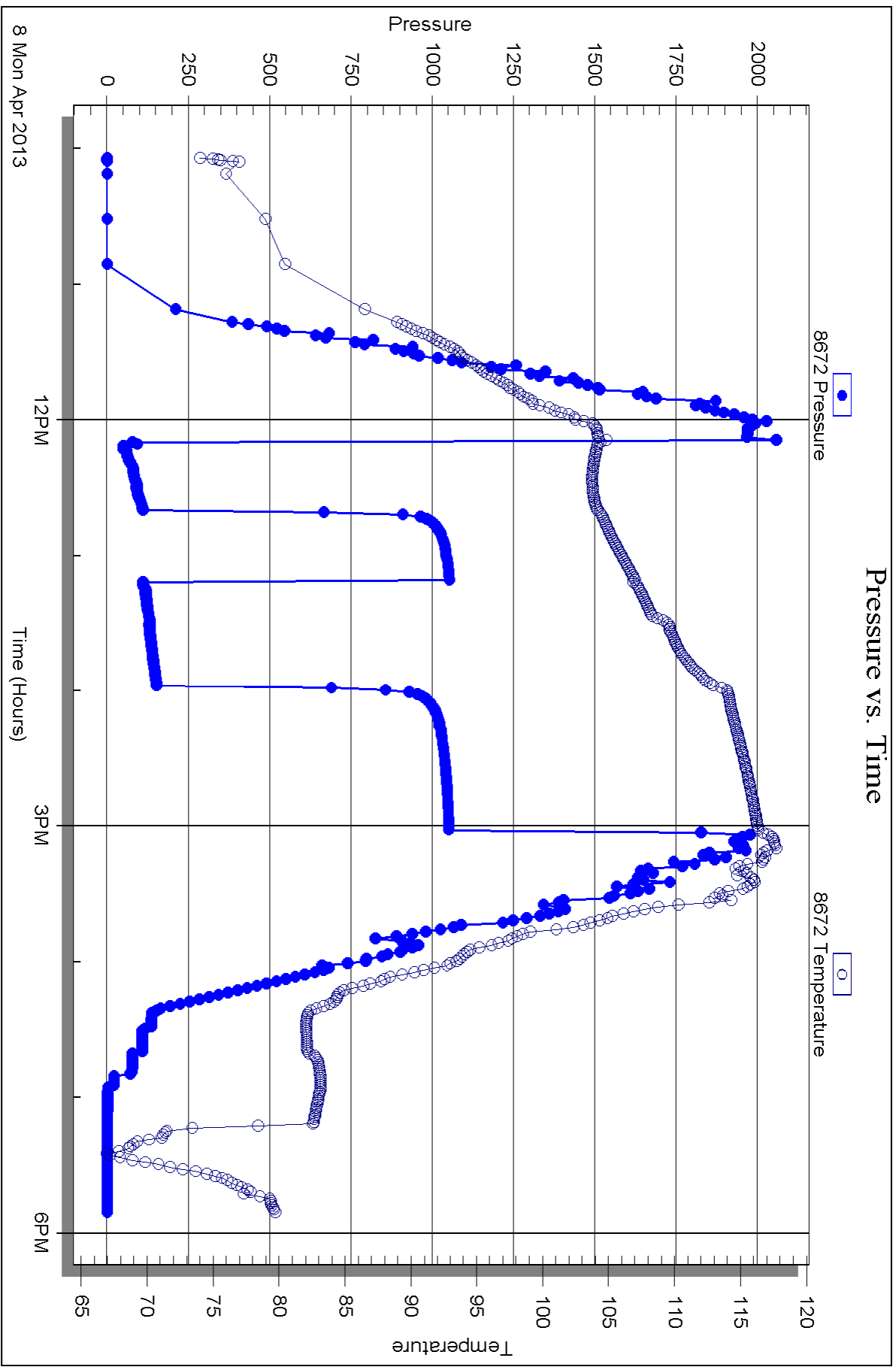
Printed: 2013.04.22 @ 14:12:01

Serial #: 8672

Below (Strat)Halespear Oil Co. Inc

Rudolph #1-22

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.10 @ 06:46:00

End Date: 2013.04.10 @ 15:47:25

Job Ticket #: 49230 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.22 @ 14:10:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49230

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.10 @ 06:46:00

GENERAL INFORMATION:

Formation: **LKC " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:21:40

Time Test Ended: 15:47:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4305.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ RunDepth: 787.46 psig @ 4308.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.10

End Date:

2013.04.10

Last Calib.:

2013.04.10

Start Time: 06:46:00

End Time:

15:47:25

Time On Btm:

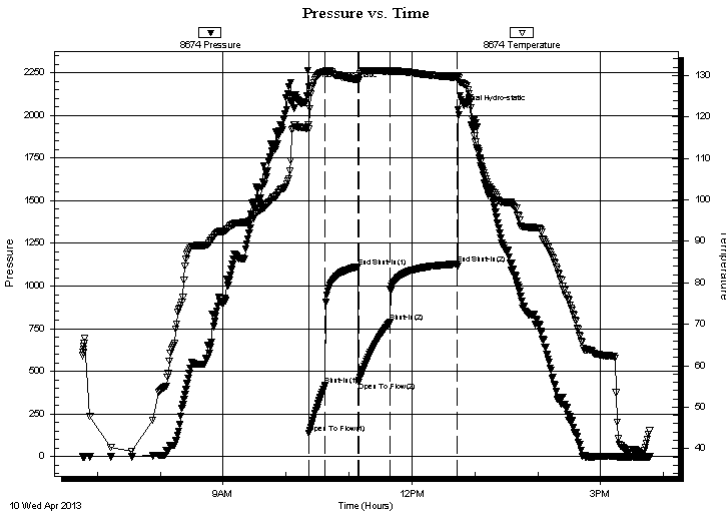
2013.04.10 @ 10:21:25

Time Off Btm:

2013.04.10 @ 12:43:54

TEST COMMENT: IF- Surface Blow Built to BOB in 2 min
IS- No Blow
FF- Surface Blow Built to BOB in 2 3/4 min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.24	118.20	Initial Hydro-static
1	135.83	117.09	Open To Flow (1)
16	420.07	130.93	Shut-In(1)
47	1113.21	128.90	End Shut-In(1)
48	437.04	128.68	Open To Flow (2)
78	787.46	131.06	Shut-In(2)
142	1128.86	129.53	End Shut-In(2)
143	2035.21	129.77	Final Hydro-static

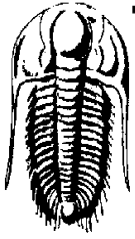
Recovery

Length (ft)	Description	Volume (bbl)
863.00	MCW 5%w 95%w	11.02
496.00	MCW 14%w 86%w	6.96
248.00	WCM 45%w 55%w	3.48
206.00	WCM 27%w 73%w with a Few Oil Spots	2.89

* 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

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

ATTN: Tim Priest

Job Ticket: 49230

DST#: 3

Test Start: 2013.04.10 @ 06:46:00

GENERAL INFORMATION:

Formation: **LKC " L "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:21:40
 Time Test Ended: 15:47:25
Interval: 4305.00 ft (KB) To 4340.00 ft (KB) (TVD)
 Total Depth: 4340.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

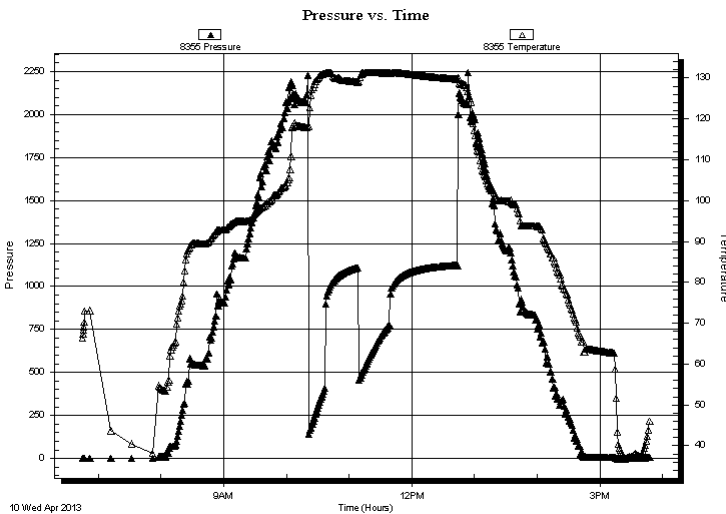
Test Type: Conventional Bottom Hole (Reset)
 Tester: Will MacLean
 Unit No: 58
 Reference Elevations: 3033.00 ft (KB)
 3025.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8355 Outside

Press @ Run Depth: psig @ 4308.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.10 End Date: 2013.04.10 Last Calib.: 2013.04.10
 Start Time: 06:45:00 End Time: 15:48:10 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Surface Blow Built to BOB in 2 min
 IS- No Blow
 FF- Surface Blow Built to BOB in 2 3/4 min
 FS- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
863.00	MCW 5% <i>m</i> 95% <i>w</i>	11.02
496.00	MCW 14% <i>m</i> 86% <i>w</i>	6.96
248.00	WCM 45% <i>w</i> 55% <i>m</i>	3.48
206.00	WCM 27% <i>w</i> 73% <i>m</i> with a Few Oil Spo	2.89

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49230

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.10 @ 06:46:00

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	28000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	14000.00 lb
			<u>Total Volume: 59.11 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4305.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	55.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4286.00	
Shut In Tool	5.00			4291.00	
Hydraulic tool	5.00			4296.00	
Packer	5.00			4301.00	20.00 Bottom Of Top Packer
Packer	4.00			4305.00	
Stubb	1.00			4306.00	
Perforations	2.00			4308.00	
Recorder	0.00	8355	Outside	4308.00	
Recorder	0.00	8674	Inside	4308.00	
Perforations	29.00			4337.00	
Bullnose	3.00			4340.00	35.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49230

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.10 @ 06:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
863.00	MCW 5% <i>m</i> 95% <i>w</i>	11.022
496.00	MCW 14% <i>m</i> 86% <i>w</i>	6.958
248.00	WCM 45% <i>w</i> 55% <i>m</i>	3.479
206.00	WCM 27% <i>w</i> 73% <i>m</i> with a Few Oil Spots	2.890

Total Length: 1813.00 ft Total Volume: 24.349 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .218 @ 43f = 55000

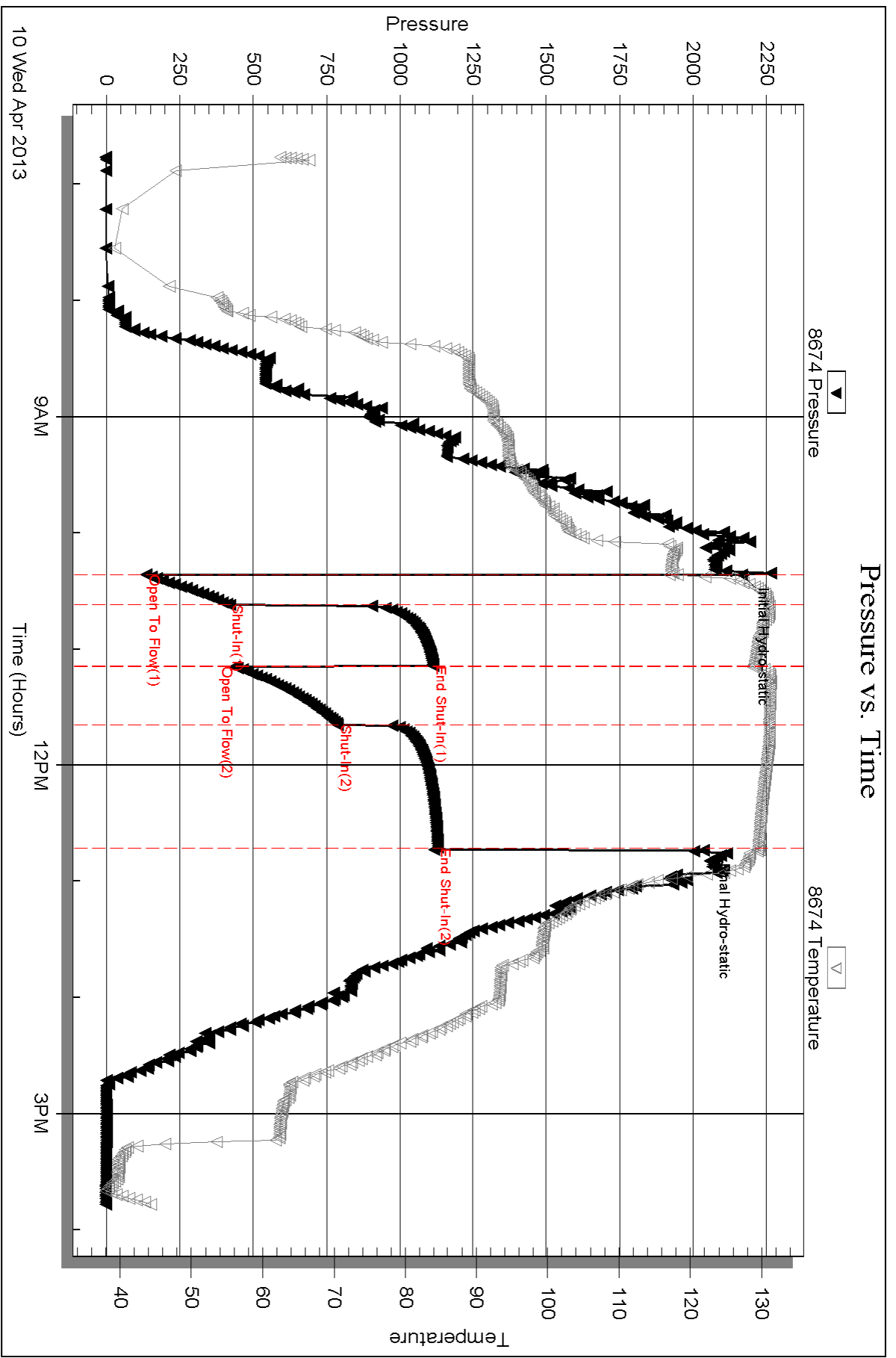
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 3

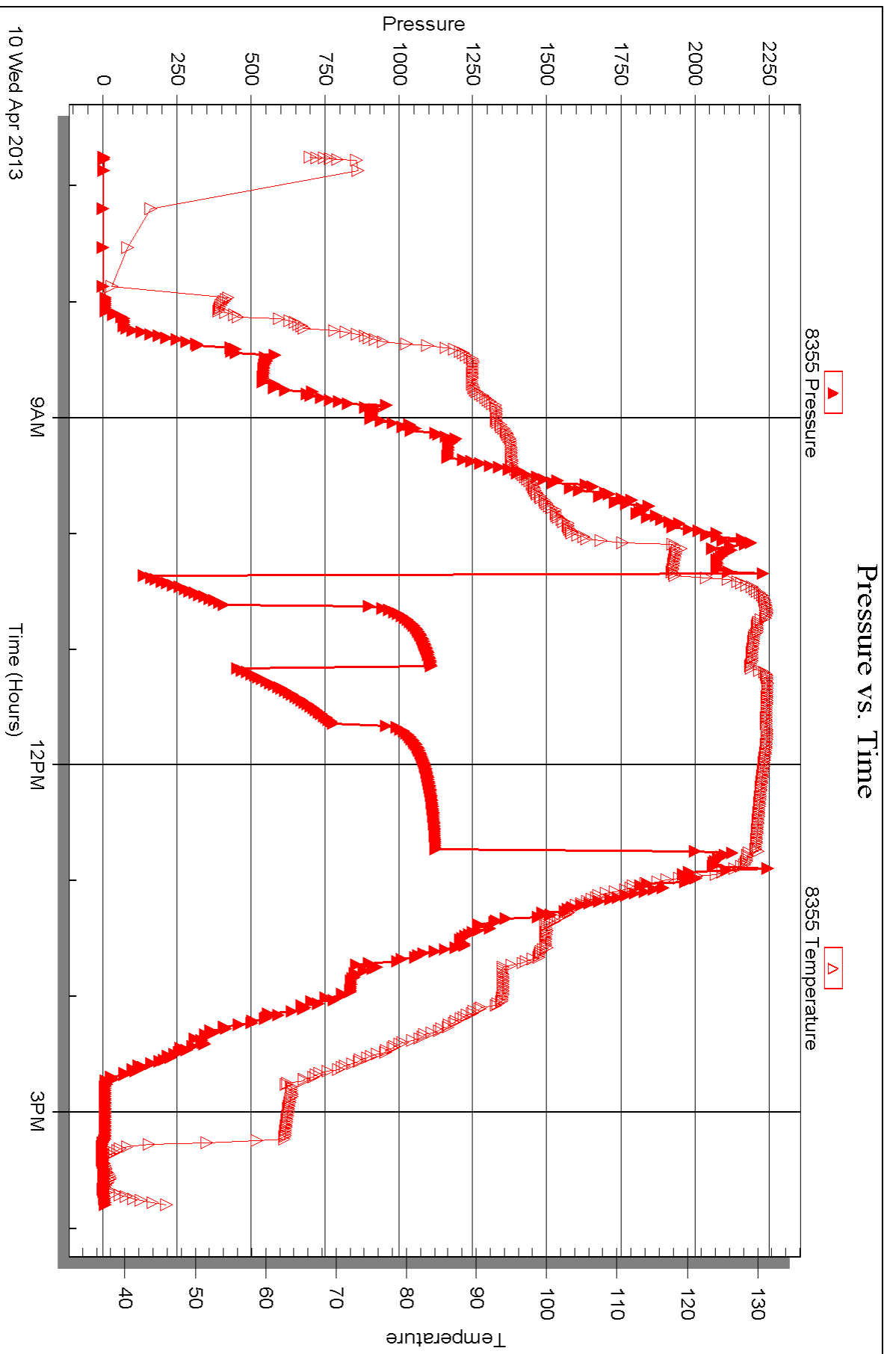


Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.11 @ 07:28:00

End Date: 2013.04.11 @ 15:04:39

Job Ticket #: 49231 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.22 @ 14:09:38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49231

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.11 @ 07:28:00

GENERAL INFORMATION:

Formation: **Marmanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:40

Time Test Ended: 15:04:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4378.00 ft (KB) To 4427.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4427.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 28.98 psig @ 4382.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.11

End Date:

2013.04.11

Last Calib.: 2013.04.11

Start Time: 07:28:00

End Time:

15:04:39

Time On Btm: 2013.04.11 @ 10:08:10

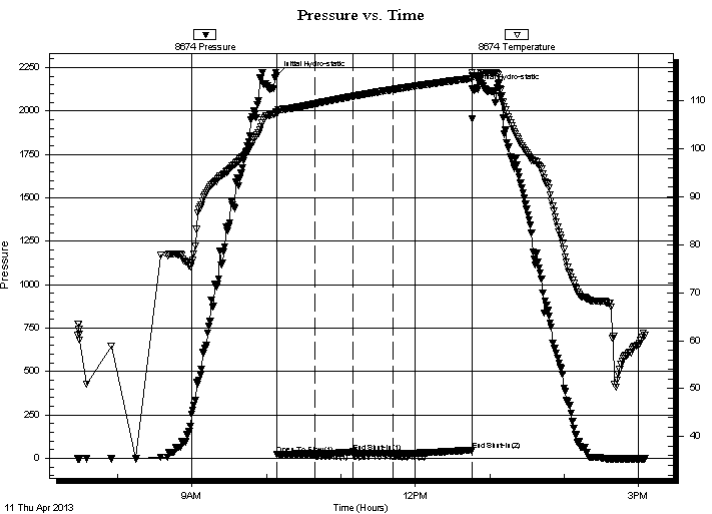
Time Off Btm: 2013.04.11 @ 12:45:54

TEST COMMENT: IF- Weak Surface Blow Died in 9 min

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.48	107.61	Initial Hydro-static
1	24.50	107.39	Open To Flow (1)
31	27.20	109.40	Shut-In(1)
62	37.59	110.93	End Shut-In(1)
62	26.92	110.93	Open To Flow (2)
94	28.98	112.33	Shut-In(2)
158	48.52	114.68	End Shut-In(2)
158	2127.77	115.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% mud Few Oil Spots in Tool	0.10

* 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

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49231

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.11 @ 07:28:00

GENERAL INFORMATION:

Formation: **Marmanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:40

Time Test Ended: 15:04:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4378.00 ft (KB) To 4427.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4427.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8355 Outside

Press @ Run Depth: psig @ 4382.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.11

End Date:

2013.04.11

Last Calib.:

2013.04.11

Start Time: 07:27:15

End Time:

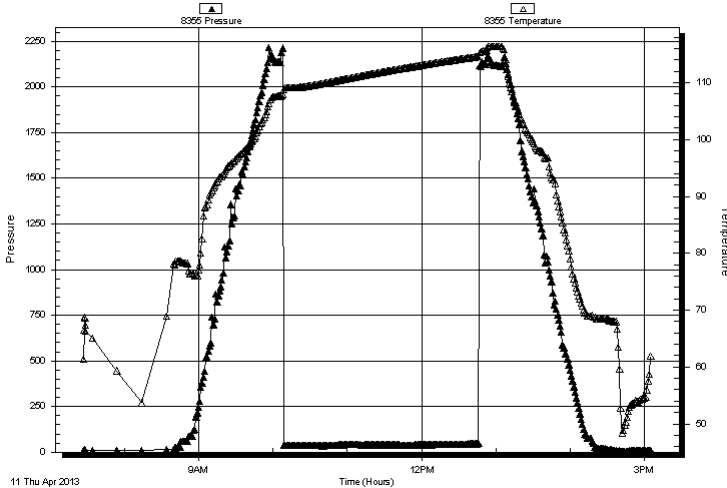
15:05:39

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Died in 9 min
IS- No Blow
FF- No Blow
FS- No Blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% mud Few Oil Spots in Tool	0.10

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49231

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.11 @ 07:28:00

Tool Information

Drill Pipe:	Length: 4261.00 ft	Diameter: 3.80 inches	Volume: 59.77 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 30000.00 lb
			<u>Total Volume: 60.36 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4378.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	69.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4359.00	
Shut In Tool	5.00			4364.00	
Hydraulic tool	5.00			4369.00	
Packer	5.00			4374.00	20.00 Bottom Of Top Packer
Packer	4.00			4378.00	
Stubb	1.00			4379.00	
Perforations	3.00			4382.00	
Recorder	0.00	8355	Outside	4382.00	
Recorder	0.00	8674	Inside	4382.00	
Perforations	10.00			4392.00	
Change Over Sub	1.00			4393.00	
Drill Pipe	30.00			4423.00	
Change Over Sub	1.00			4424.00	
Bullnose	3.00			4427.00	49.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49231

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.11 @ 07:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	100% mud Few Oil Spots in Tool	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

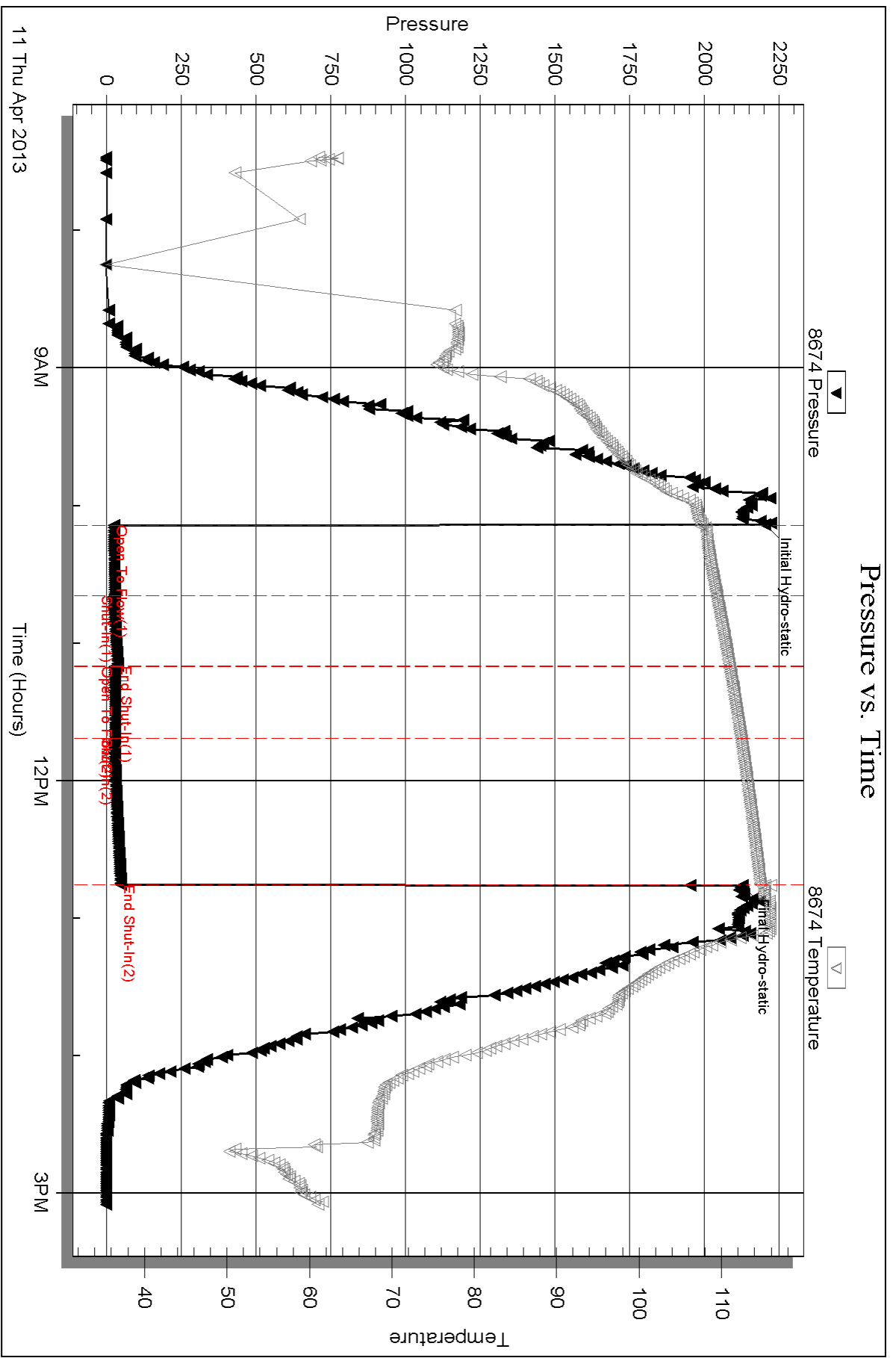
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Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 49231

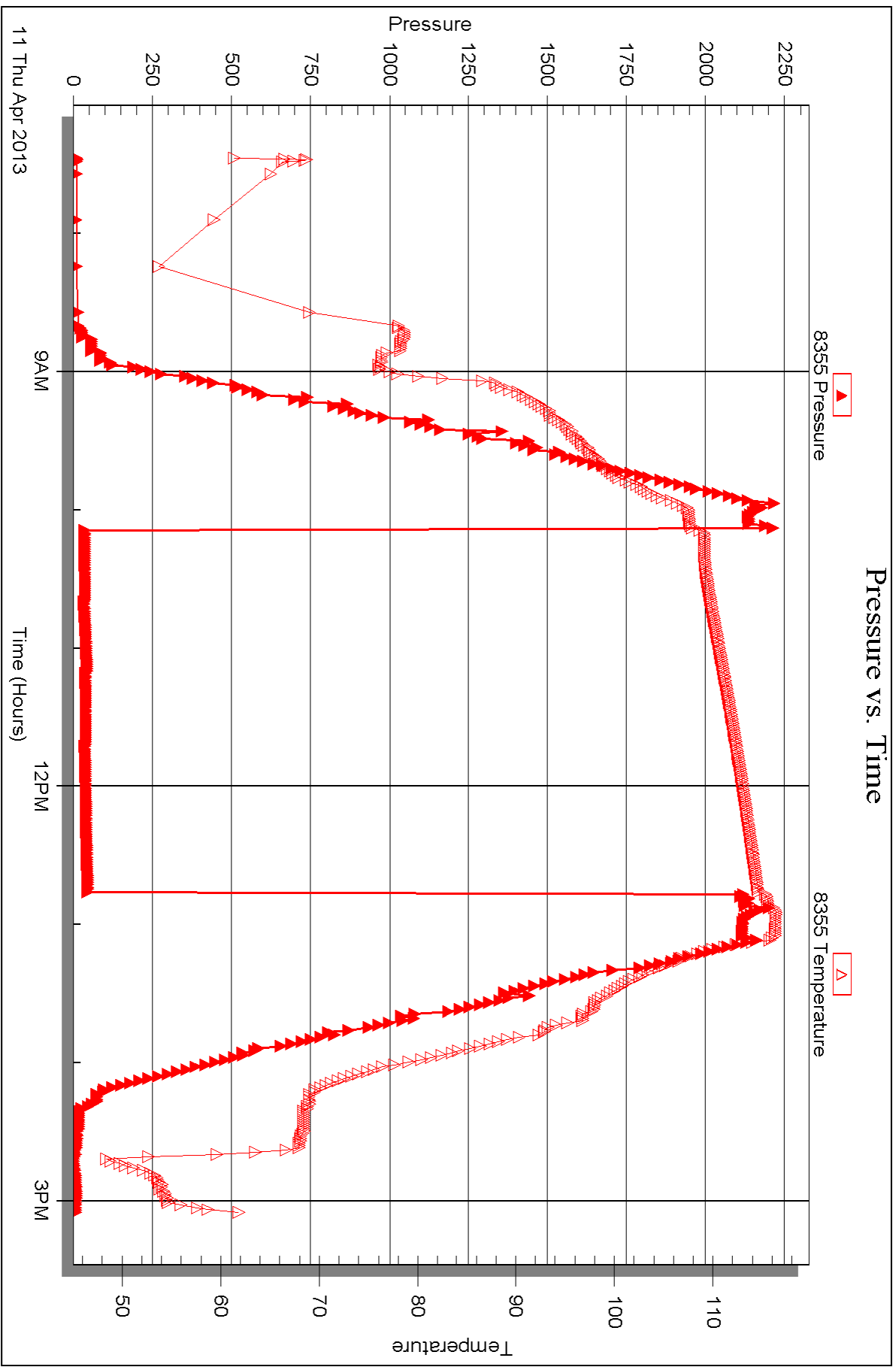
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Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.12 @ 06:51:36

End Date: 2013.04.12 @ 15:14:51

Job Ticket #: 49122 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.22 @ 14:08:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49122

DST#: 5

ATTN: Tim Priest

Test Start: 2013.04.12 @ 06:51:36

GENERAL INFORMATION:

Formation: **Marmaton "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:37:21

Time Test Ended: 15:14:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 58

Interval: 4430.00 ft (KB) To 4425.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4455.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 363.45 psig @ 4431.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.12

End Date:

2013.04.12

Last Calib.:

2013.04.12

Start Time: 06:51:41

End Time:

15:14:50

Time On Btm:

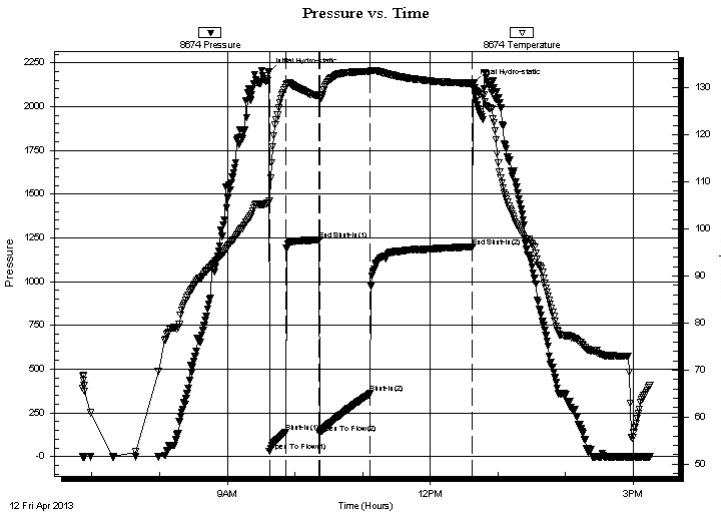
2013.04.12 @ 09:36:51

Time Off Btm:

2013.04.12 @ 12:37:51

TEST COMMENT: BOB In 10 mins.
Dead no blow back.
BOB in 10 mins.
Dead no blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.72	105.58	Initial Hydro-static
1	30.54	105.88	Open To Flow (1)
15	138.15	130.07	Shut-In(1)
45	1236.78	128.33	End Shut-In(1)
45	134.82	127.62	Open To Flow (2)
90	363.45	133.40	Shut-In(2)
181	1199.40	130.86	End Shut-In(2)
181	2132.21	131.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	2%M 98%W	4.81
180.00	15%M 85%W	2.52
60.00	30%M 70%W	0.84
160.00	40%W 60%M	2.24

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49122

DST#: 5

ATTN: Tim Priest

Test Start: 2013.04.12 @ 06:51:36

Tool Information

Drill Pipe:	Length: 4322.00 ft	Diameter: 3.80 inches	Volume: 60.63 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 61.22 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4430.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4411.00	
Shut In Tool	5.00			4416.00	
Hydraulic tool	5.00			4421.00	
Packer	5.00			4426.00	20.00 Bottom Of Top Packer
Packer	4.00			4430.00	
Stubb	1.00			4431.00	
Recorder	0.00	8355	Outside	4431.00	
Recorder	0.00	8674	Inside	4431.00	
Perforations	21.00			4452.00	
Bullnose	3.00			4455.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49122

DST#: 5

ATTN: Tim Priest

Test Start: 2013.04.12 @ 06:51:36

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

47000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
420.00	2%M 98%W	4.807
180.00	15%M 85%W	2.525
60.00	30%M 70%W	0.842
160.00	40%W 60%M	2.244

Total Length: 820.00 ft Total Volume: 10.418 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .152 @ 68F = 47000

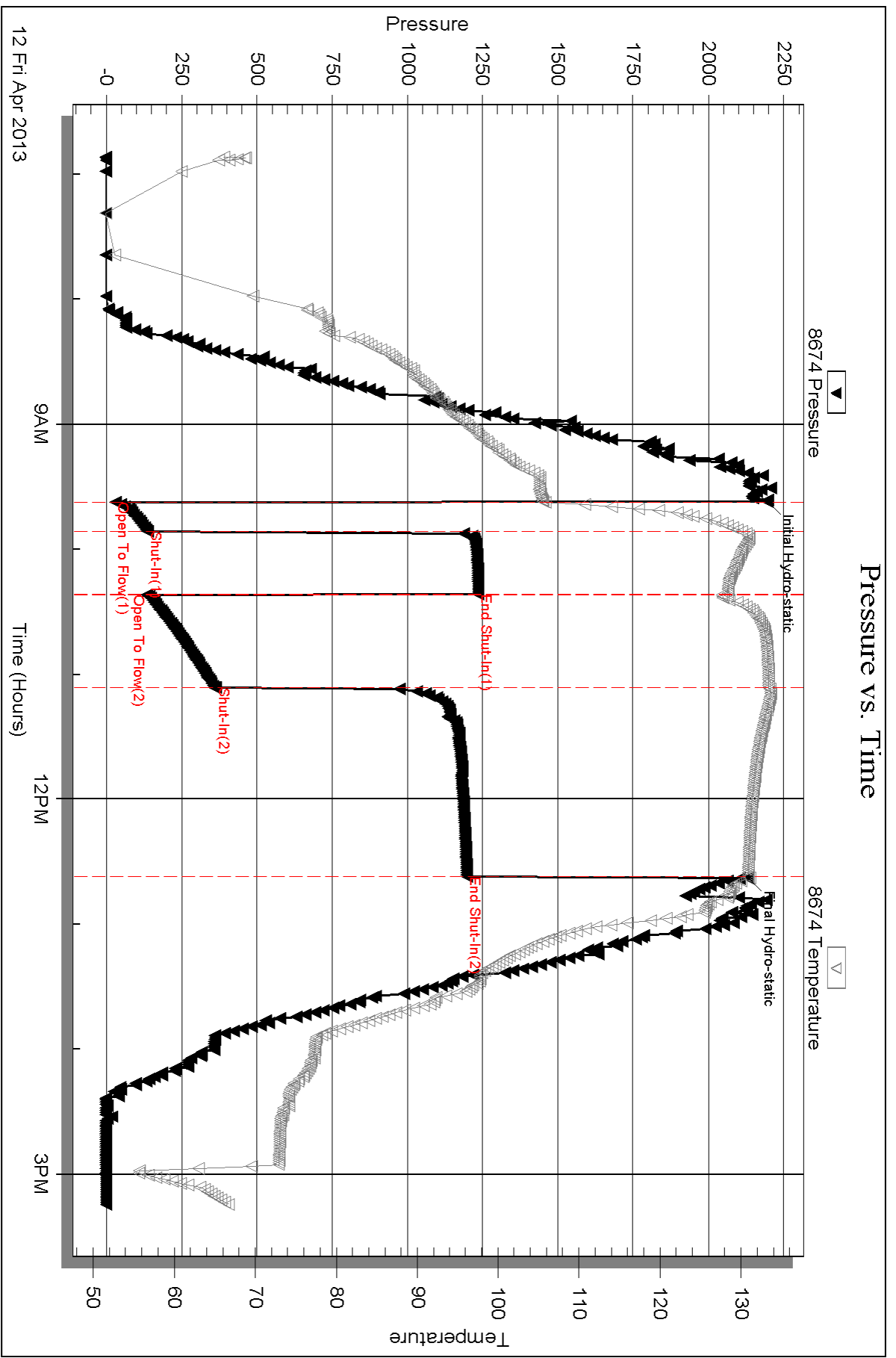
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Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 49122

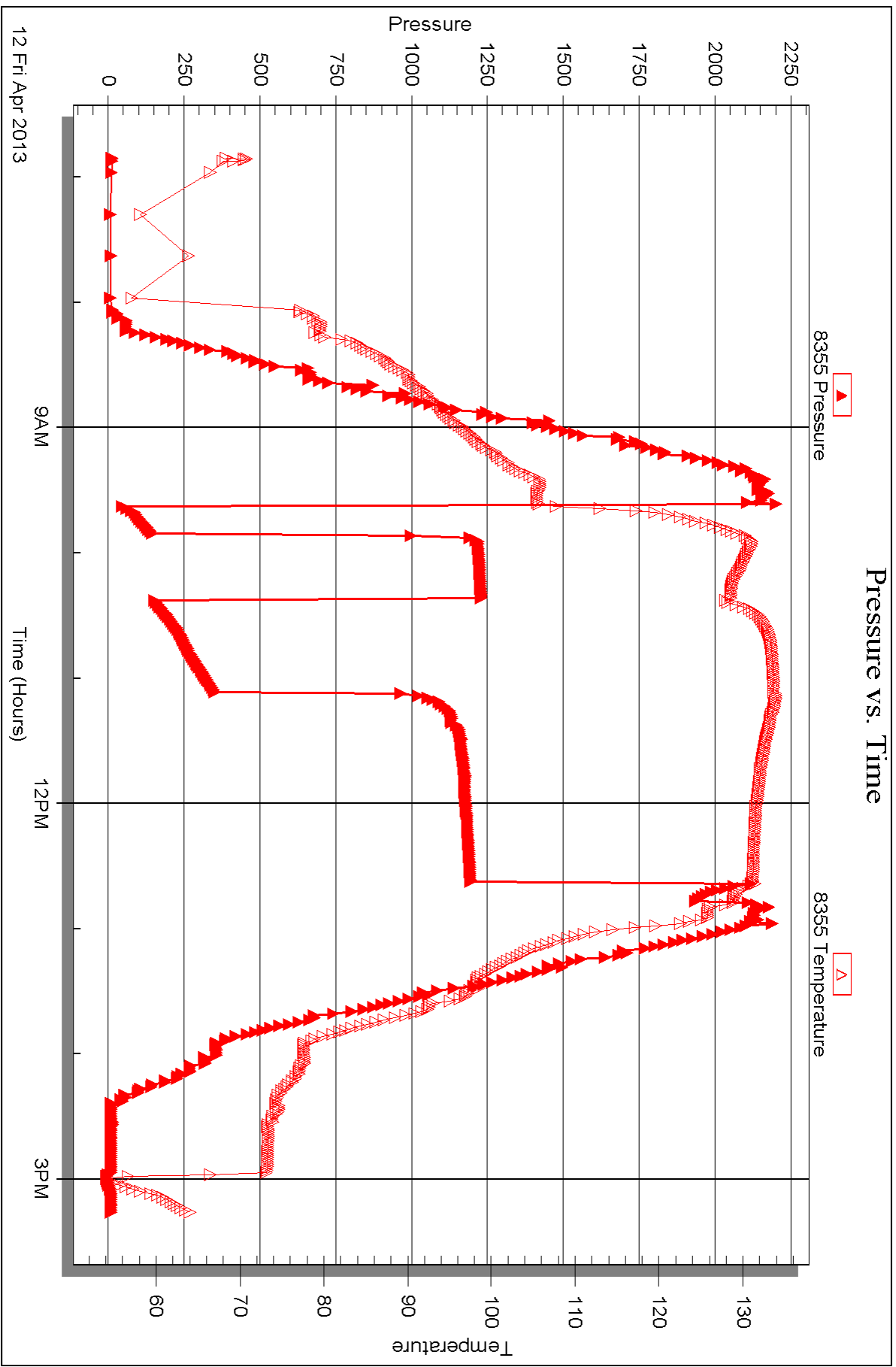
Printed: 2013.04.22 @ 14:08:45

Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.13 @ 09:36:59

End Date: 2013.04.13 @ 17:29:14

Job Ticket #: 49123 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.22 @ 14:06:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49123

DST#: 6

ATTN: Tim Priest

Test Start: 2013.04.13 @ 09:36:59

GENERAL INFORMATION:

Formation: **Paw/MS/FS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:16:44

Time Test Ended: 17:29:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 58

Interval: 4475.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 19.49 psig @ 4476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.13

End Date:

2013.04.13

Last Calib.: 2013.04.13

Start Time: 09:37:04

End Time:

17:29:13

Time On Btm: 2013.04.13 @ 12:16:29

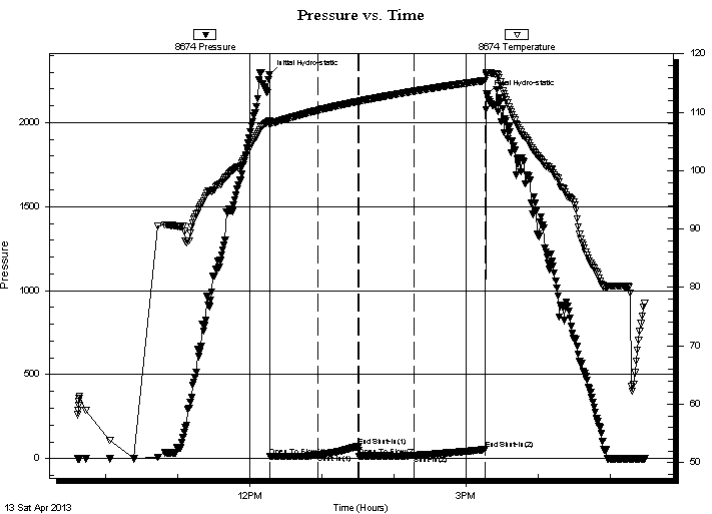
Time Off Btm: 2013.04.13 @ 15:17:14

TEST COMMENT: Weak surface blow built to 1/2"

Dead no blow

Dead no blow

Dead no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.07	108.44	Initial Hydro-static
1	14.26	107.80	Open To Flow (1)
41	22.40	110.32	Shut-In(1)
74	74.49	111.87	End Shut-In(1)
75	15.31	111.87	Open To Flow (2)
121	19.49	113.60	Shut-In(2)
180	54.57	115.43	End Shut-In(2)
181	2168.33	116.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49123

DST#: 6

ATTN: Tim Priest

Test Start: 2013.04.13 @ 09:36:59

Tool Information

Drill Pipe:	Length: 4351.00 ft	Diameter: 3.80 inches	Volume: 61.03 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4475.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4456.00	
Shut In Tool	5.00			4461.00	
Hydraulic tool	5.00			4466.00	
Packer	5.00			4471.00	20.00 Bottom Of Top Packer
Packer	4.00			4475.00	
Stubb	1.00			4476.00	
Recorder	0.00	8355	Outside	4476.00	
Recorder	0.00	8674	Inside	4476.00	
Perforations	19.00			4495.00	
Change Over Sub	1.00			4496.00	
Drill Pipe	60.00			4556.00	
Change Over Sub	1.00			4557.00	
Bullnose	3.00			4560.00	85.00 Bottom Packers & Anchor

Total Tool Length: 105.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49123

DST#: 6

ATTN: Tim Priest

Test Start: 2013.04.13 @ 09:36:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

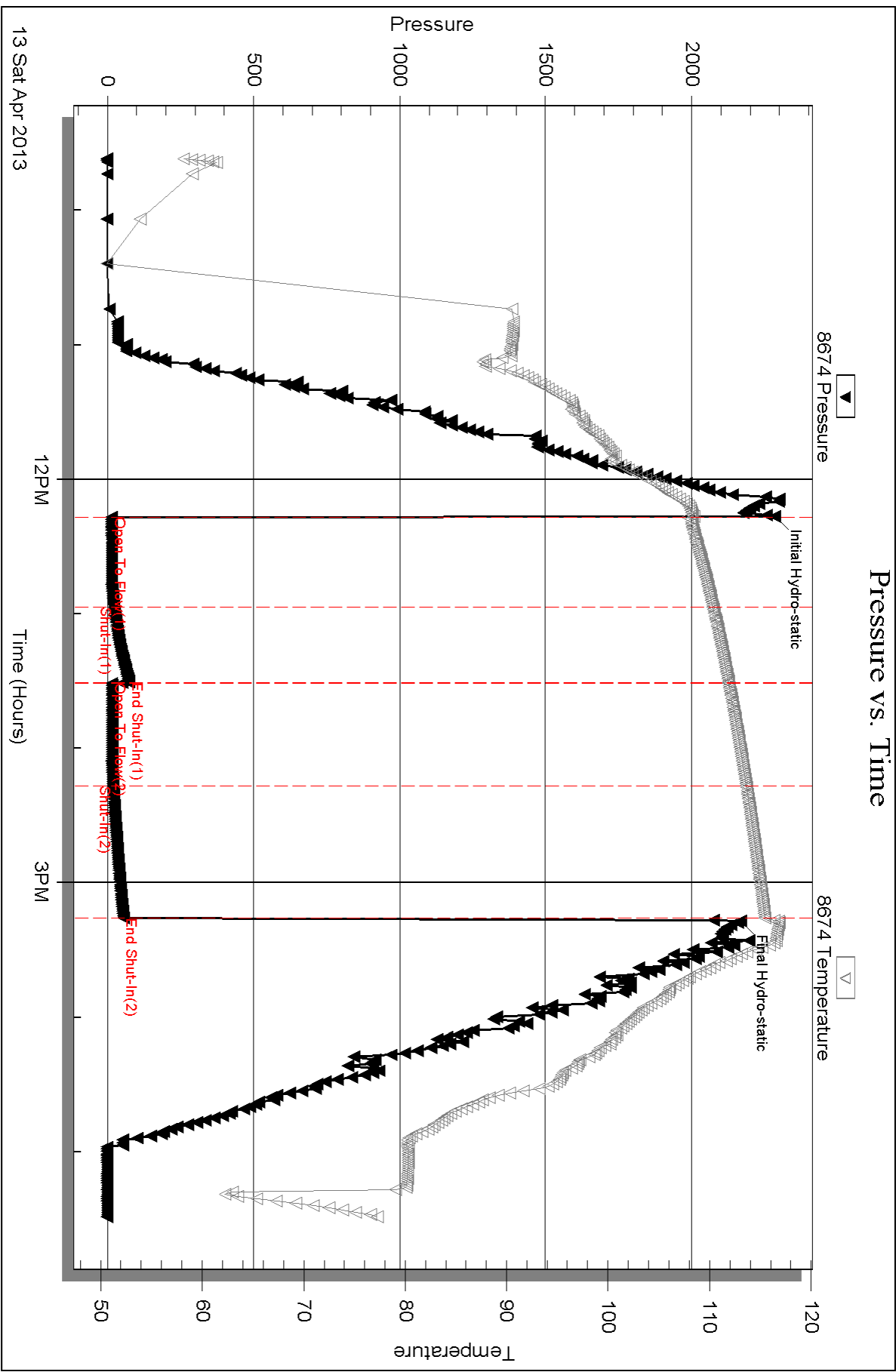
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 6

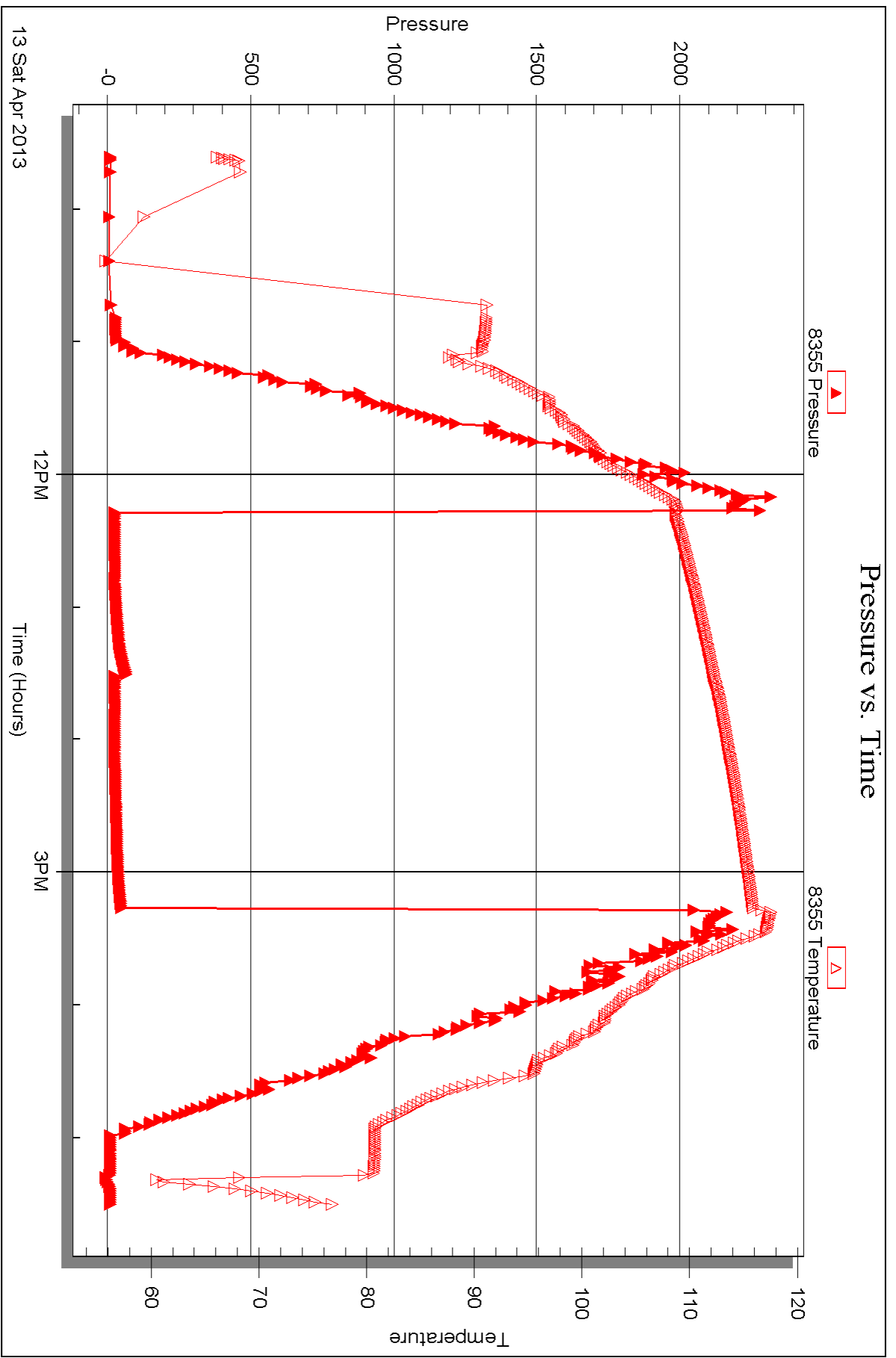


Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 49123

Printed: 2013.04.22 @ 14:06:56



DRILL STEM TEST REPORT

Prepared For: **Shakespeare Oil Co. Inc**

202 W Main St.
Salem IL 62881

ATTN: Tim Priest

Rudolph #1-22

22-17s-33w Scott, KS

Start Date: 2013.04.14 @ 17:42:03

End Date: 2013.04.15 @ 01:58:03

Job Ticket #: 49124 DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.22 @ 14:06:12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49124

DST#: 7

ATTN: Tim Priest

Test Start: 2013.04.14 @ 17:42:03

GENERAL INFORMATION:

Formation: **Marrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:12:48

Time Test Ended: 01:58:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 58

Interval: 4635.00 ft (KB) To 4703.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4703.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 86.52 psig @ 4636.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.14

End Date:

2013.04.15

Last Calib.: 2013.04.15

Start Time: 17:42:08

End Time:

01:58:02

Time On Btm: 2013.04.14 @ 20:12:33

Time Off Btm: 2013.04.14 @ 23:28:33

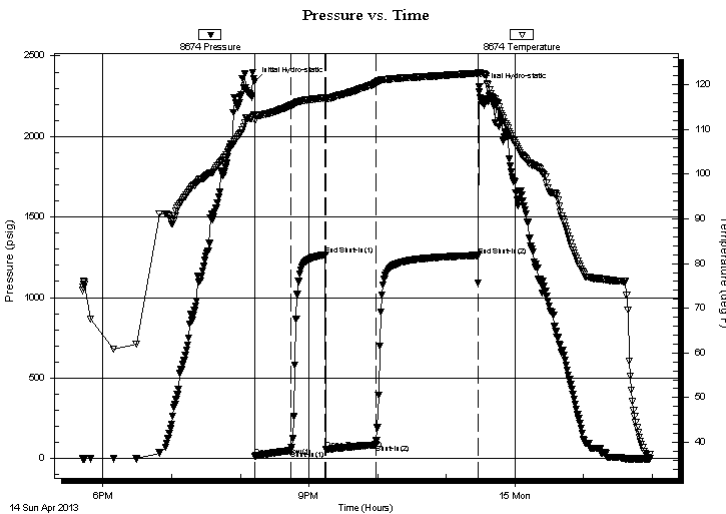
TEST COMMENT: Weak surface blow built to 1 1/2"

Dead no blow back

Fair surface blow built to 6"

Weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2343.47	113.30	Initial Hydro-static
1	15.26	112.09	Open To Flow (1)
32	50.00	115.36	Shut-In(1)
62	1265.91	117.14	End Shut-In(1)
63	56.74	116.80	Open To Flow (2)
106	86.52	120.38	Shut-In(2)
195	1261.81	122.61	End Shut-In(2)
196	2306.53	122.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	5%G 20%O 75%M	0.30
60.00	5%G 20%M 75%O	0.30
65.00	25%G 75%O	0.91
0.00	175 GIP	0.00

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

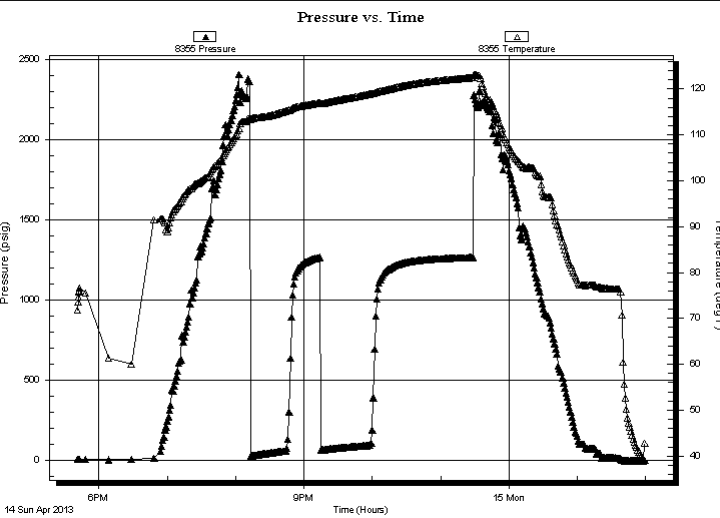
22-17s-33w Scott, KS
Rudolph #1-22
Job Ticket: 49124 **DST#: 7**
Test Start: 2013.04.14 @ 17:42:03

GENERAL INFORMATION:

Formation: Marrow			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 20:12:48		Tester: Tate Lang	
Time Test Ended: 01:58:03		Unit No: 58	
Interval: 4635.00 ft (KB) To 4703.00 ft (KB) (TVD)		Reference Elevations: 3033.00 ft (KB)	
Total Depth: 4703.00 ft (KB) (TVD)		3025.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 8.00 ft	

Serial #: 8355	Outside		
Press @RunDepth: psig @ 4636.00 ft (KB)		Capacity: 8000.00 psig	
Start Date: 2013.04.14	End Date: 2013.04.15	Last Calib.: 2013.04.15	
Start Time: 17:41:23	End Time: 01:59:02	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: Weak surface blow built to 1 1/2"
Dead no blow back
Fair surface blow built to 6"
Weak surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	5%G 20%O 75%M	0.30
60.00	5%G 20%M 75%O	0.30
65.00	25%G 75%O	0.91
0.00	175 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49124

DST#: 7

ATTN: Tim Priest

Test Start: 2013.04.14 @ 17:42:03

Tool Information

Drill Pipe:	Length: 4500.00 ft	Diameter: 3.80 inches	Volume: 63.12 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 119.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 63.71 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	65000.00 lb
Depth to Top Packer:	4635.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	68.00 ft				
Tool Length:	88.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4616.00	
Shut In Tool	5.00			4621.00	
Hydraulic tool	5.00			4626.00	
Packer	5.00			4631.00	20.00 Bottom Of Top Packer
Packer	4.00			4635.00	
Stubb	1.00			4636.00	
Recorder	0.00	8355	Outside	4636.00	
Recorder	0.00	8674	Inside	4636.00	
Perforations	32.00			4668.00	
Change Over Sub	1.00			4669.00	
Drill Pipe	30.00			4699.00	
Change Over Sub	1.00			4700.00	
Bullnose	3.00			4703.00	68.00 Bottom Packers & Anchor

Total Tool Length: 88.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc

22-17s-33w Scott, KS

202 W Main St.
Salem IL 62881

Rudolph #1-22

Job Ticket: 49124

DST#: 7

ATTN: Tim Priest

Test Start: 2013.04.14 @ 17:42:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	5%G 20%O 75%M	0.295
60.00	5%G 20%M 75%O	0.304
65.00	25%G 75%O	0.912
0.00	175 GIP	0.000

Total Length: 185.00 ft Total Volume: 1.511 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: AIP 26 @ 50 F = 27

Serial #: 8674

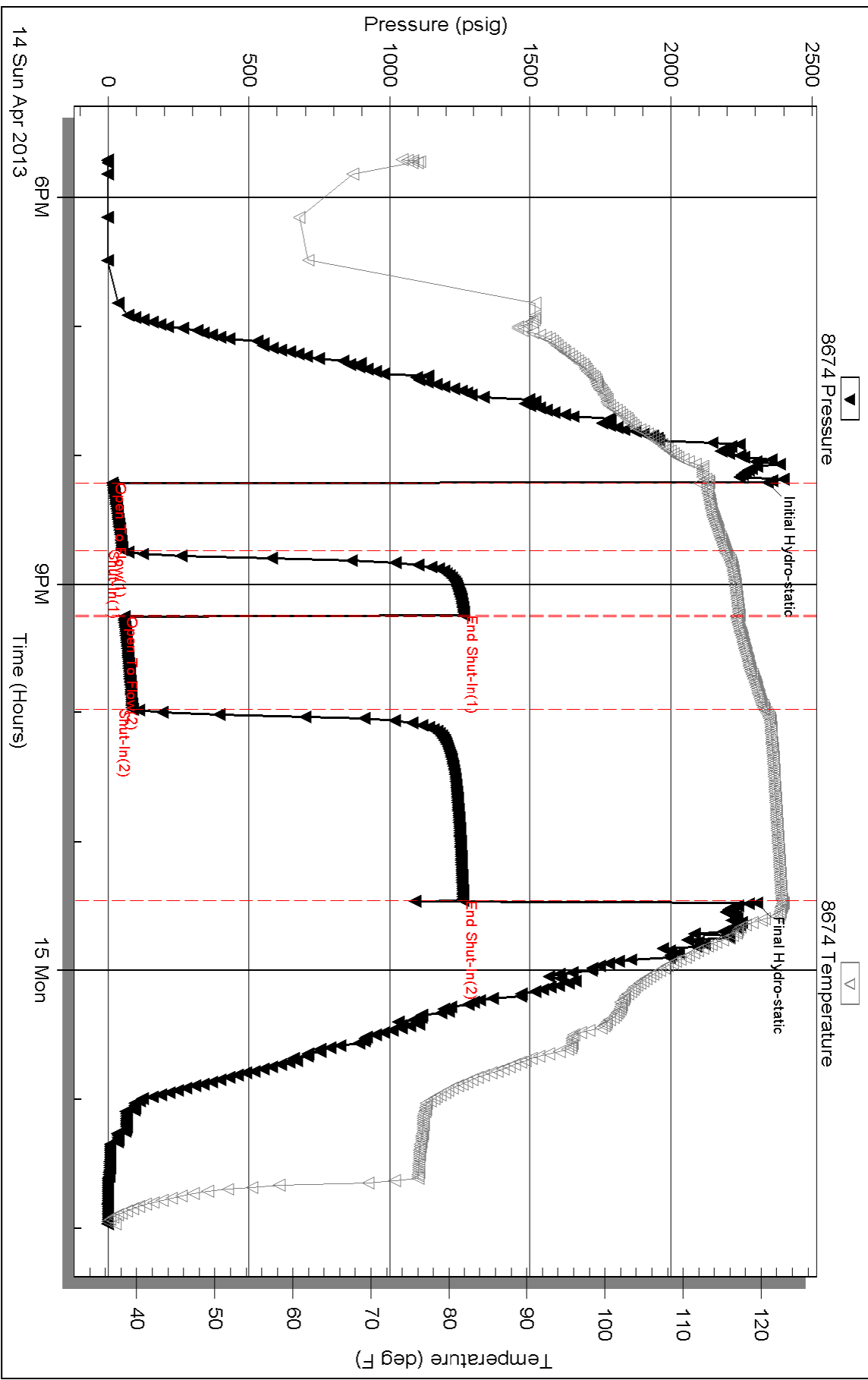
Inside

Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 7

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49124

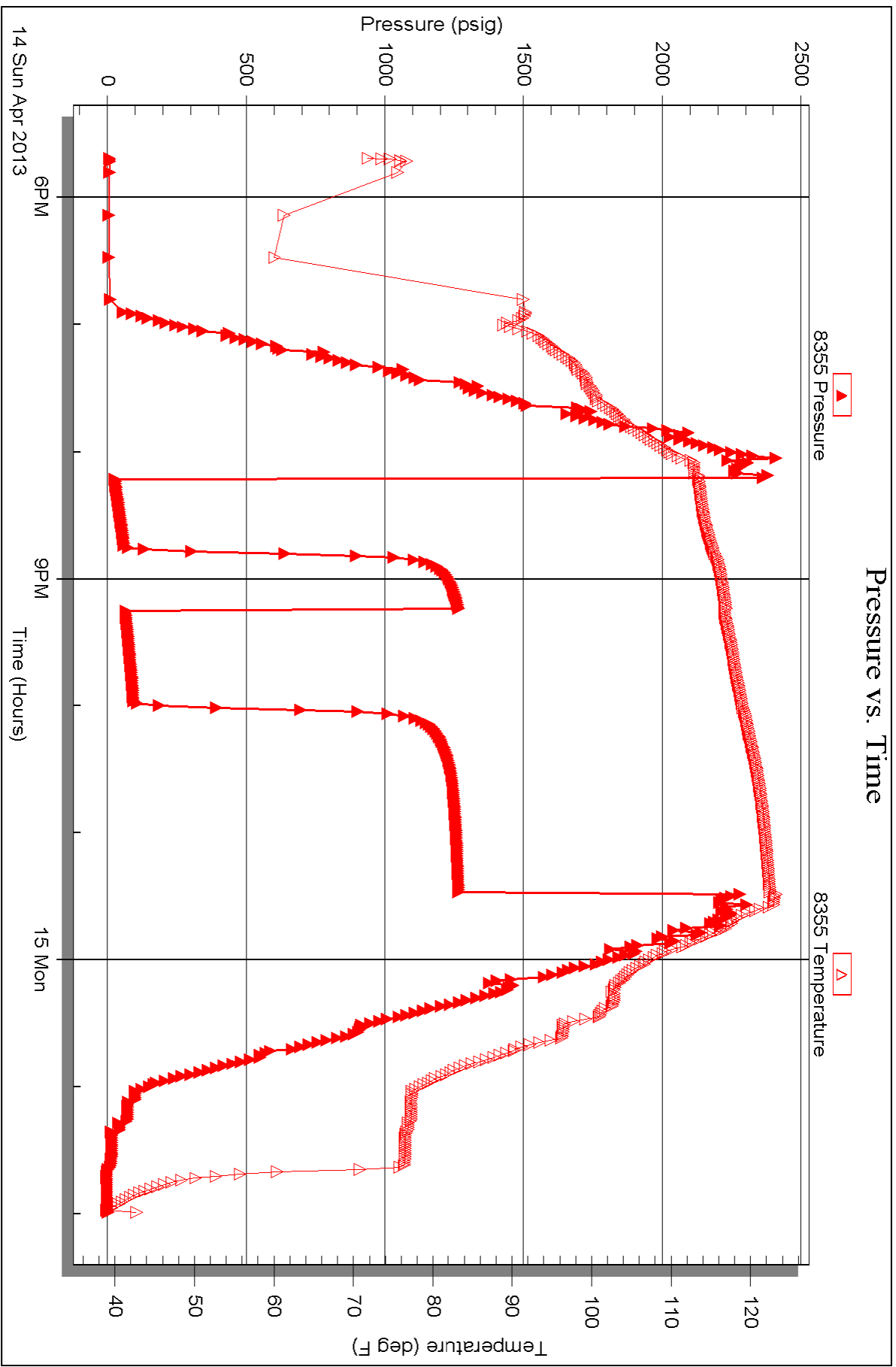
Printed: 2013.04.22 @ 14:06:15

Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph #1-22

DST Test Number: 7





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49228

Well Name & No. Rudolph #1-22 Test No. DST #1 Date 4-7-13
 Company Shakespeare Oil Co. Inc Elevation 3033 KB 3025 GL
 Address 202 W. Main St. Salem IL 62881
 Co. Rep / Geo. Tim Priest Rig H-D Rig #2
 Location: Sec. 22 Twp. 17s Rge. 33W Co. Scott State KS

Interval Tested 4014-4055 Zone Tested LKC "B-C"
 Anchor Length 41' Drill Pipe Run 3895 Mud Wt. 8.9
 Top Packer Depth 4010 Drill Collars Run 119 Vis 51
 Bottom Packer Depth 4014 Wt. Pipe Run 0 WL 6.8
 Total Depth 4055 Chlorides 3000 ppm System LCM 21b
 Blow Description IF - Surface Blow Built to BOB in 219 min
ISI - No Blow
FF - Surface Blow Built to BOB in 234 min
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>MCW</u>		<u>51</u>	<u>49</u>	
<u>248</u>	<u>MCW</u>		<u>71</u>	<u>21</u>	
<u>186</u>	<u>MCW</u>		<u>95</u>	<u>5</u>	
<u>1049</u>	<u>MCW</u>		<u>97</u>	<u>3</u>	

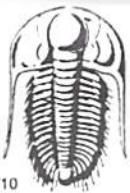
Rec Total 1798 BHT 124 Gravity Test 1250 API RW 1 @ 78 ° F Chlorides 5300 ppm
 (A) Initial Hydrostatic 1959 Jars _____ T-On Location 8:22
 (B) First Initial Flow 101 Safety Joint _____ T-Started 8:50
 (C) First Final Flow 426 Circ Sub NIC _____ T-Open 10:54
 (D) Initial Shut-In 1016 Hourly Standby _____ T-Pulled 13:16
 (E) Second Initial Flow 440 Mileage 20 RIT 31 _____ T-Out 16:04
 (F) Second Final Flow 807 Sampler _____
 (G) Final Shut-In 1018 Straddle _____
 (H) Final Hydrostatic 1929 Shale Packer 250 _____
 Initial Open 15 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1531

Comments RW is 1165 e 68 f = 44000
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1531
 MP/DST Disc't _____

Approved By _____

Our Representative Tim Masten

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49229

Well Name & No. Rudolph #1-22 Test No. DST #2 Date 4-8-13
 Company Shakespeare Oil Co. Inc Elevation 3033 KB 3025 GL
 Address 202 W. Main St Salem IL 62881
 Co. Rep / Geo. Tim Prrest Rig H-D Rig #2
 Location: Sec. 22 Twp. 17s Rge. 33w Co. Scott State KS

Interval Tested 4068-4092 Zone Tested LRC "D"
 Anchor Length 24 Drill Pipe Run 3894 Mud Wt. 9.2
 Top Packer Depth 4068 Drill Collars Run 178 Vis 57
 Bottom Packer Depth 4092 Wt. Pipe Run 0 WL 6.4
 Total Depth 4100 Chlorides 4000 ppm System LCM 216
 Blow Description IF - Weak Surface Blow Built to 4"
ISI - No Blow
FF - Weak Surface Blow Built to 1 1/4"
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
40	Oil		100		
82	OWCM		12	20	68
60	OWCM		8	34	58
60	G-OMCW	4	7	61	28
120	G-OMCW	4	2	72	22

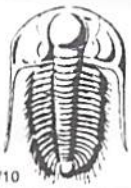
Rec Total 362 BHT 114 Gravity API RW-207 @ 73 °F Chlorides 34000 ppm

(A) Initial Hydrostatic 2004 Test 1050 T-On Location 9:28
 (B) First Initial Flow 15 Jars _____ T-Started 10:04
 (C) First Final Flow 91 Safety Joint _____ T-Open 12:09
 (D) Initial Shut-In 1038 Circ Sub N/C T-Pulled 15:01
 (E) Second Initial Flow 93 Hourly Standby _____ T-Out 17:49
 (F) Second Final Flow 134 Mileage 31 Comments API is 22 @ 70f = 21
 (G) Final Shut-In 1038 Sampler _____
 (H) Final Hydrostatic 1807 Straddle 600 Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1931
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1931

Approved By _____

Our Representative Will Mar

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49230

Well Name & No. Rudolph #1-22 Test No. DST #3 Date 4-10-13
 Company Shakespeare Oil Co. Inc Elevation 3033 KB 3025 GL
 Address 202 W. Main St Salem IL 62881
 Co. Rep / Geo. Tim Priest Rig H-D Rigs #2
 Location: Sec. 22 Twp. 17s Rge. 33W Co. Scott State KS

Interval Tested 4305-4340 Zone Tested LKC "L"
 Anchor Length 35 Drill Pipe Run 4172 Mud Wt. 9.3
 Top Packer Depth 4301 Drill Collars Run 119 Vis 50
 Bottom Packer Depth 4305 Wt. Pipe Run 0 WL 7.4
 Total Depth 4340 Chlorides 5800 ppm System LCM 216
 Blow Description IF- Surface Blow Built to BOB in 2min
ISI- No Blow
FF- Surface Blow Built to BOB in 2 3/4 min
FSI- No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>206</u>	<u>Feet of WCM with a few oil spots</u>			<u>27</u>	<u>73</u>
<u>248</u>	<u>Feet of WCM</u>			<u>45</u>	<u>55</u>
<u>496</u>	<u>Feet of MCW</u>			<u>86</u>	<u>14</u>
<u>863</u>	<u>Feet of MCW</u>			<u>95</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 122 Gravity _____ API RW 218 @ 43 ° F Chlorides 55000 ppm

(A) Initial Hydrostatic 216.7 Test 1250 T-On Location 5:08
 (B) First Initial Flow 135 Jars T-Started 6:46
 (C) First Final Flow 420 Safety Joint T-Open 10:21
 (D) Initial Shut-In 1113 Circ Sub NIC T-Pulled _____
 (E) Second Initial Flow 437 Hourly Standby T-Out 15:47
 (F) Second Final Flow 787 Mileage 20 R/T x 2 ⁶² Comments _____
 (G) Final Shut-In 1128 Sampler _____ sent home while rig made repairs
 (H) Final Hydrostatic 2035 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1562
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1562

Approved By _____ Our Representative Will Marshall

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49231

Well Name & No. _____ Test No. DST #4 Date 4-11-13
 Company Shakespeare Oil Co. Inc Elevation 3033 KB 3025 GL _____
 Address 202 W Main St Salem IL 62881
 Co. Rep / Geo. Tim Priest Rig H-D Ris # 2
 Location: Sec. 22 Twp. 17s Rge. 33w Co. Scott State KS

Interval Tested 4378 - 4427 Zone Tested Marmanton
 Anchor Length 49 Drill Pipe Run 4261 Mud Wt. 9.4
 Top Packer Depth 4374 Drill Collars Run 119 Vis 58
 Bottom Packer Depth 4378 Wt. Pipe Run 0 WL 7.6
 Total Depth 4427 Chlorides 6800 ppm System LCM 216
 Blow Description IF - Weak Surface Blow Died in 9min
ISI - No Blow
FF - No Blow
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud / Few Oil spots in Tool</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2202 Test 1250 T-On Location 7:02
 (B) First Initial Flow 24 Jars _____ T-Started 7:28
 (C) First Final Flow 27 Safety Joint _____ T-Open 10:08
 (D) Initial Shut-In 37 Circ Sub NIC T-Pulled 12:45
 (E) Second Initial Flow 26 Hourly Standby _____ T-Out 15:04
 (F) Second Final Flow 28 Mileage 20 RIT 31 Comments _____
 (G) Final Shut-In 48 Sampler _____
 (H) Final Hydrostatic 2127 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1531
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1531

Approved By _____ Our Representative Will Martin

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49122

Well Name & No. Rudolph #1-22 Test No. 5 Date 4-12-13
 Company Shakespeare Oil Co. Inc. Elevation 3033 KB 3025 GL
 Address 202 W Main St. Salem IL 62881
 Co. Rep / Geo. Tim Priest Rig HD Rig #2
 Location: Sec. 22 Twp. 17 S Rge. 33 W Co. Scott State KS

Interval Tested 4430 4455 Zone Tested Marioneton "B"
 Anchor Length 25 Drill Pipe Run 4322 Mud Wt. 9.4
 Top Packer Depth 4426 Drill Collars Run 119 Vis 58
 Bottom Packer Depth 4430 Wt. Pipe Run 0 WL 7.6
 Total Depth 4455 Chlorides 6800 ppm System LCM 27

Blow Description B.O.B. In 10 mins
Dead no blow back
B.O.O. In 10 mins
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>420</u>	<u>15 mch</u>		<u>98</u>	<u>2</u>	
<u>180</u>	<u>mch</u>		<u>85</u>	<u>15</u>	
<u>160</u>	<u>wcm</u>		<u>40</u>	<u>60</u>	
<u>60</u>	<u>mch</u>		<u>70</u>	<u>30</u>	
<u>30</u>					

Rec Total 820 BHT 131 Gravity ≠ API RW 152 @ 68 °F Chlorides 547000 ppm

- (A) Initial Hydrostatic 2196
- (B) First Initial Flow 31
- (C) First Final Flow 138
- (D) Initial Shut-In 1237
- (E) Second Initial Flow 135
- (F) Second Final Flow 363
- (G) Final Shut-In 1199
- (H) Final Hydrostatic 2132

Initial Open 15
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 90

- Test 1250
- Jars
- Safety Joint 1
- Circ Sub N/C
- Hourly Standby
- Mileage 20 R/T 31
- Sampler
- Straddle
- Shale Packer 250
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1531

T-On Location 6:18
 T-Started 6:51
 T-Open 9:37
 T-Pulled 12:37
 T-Out 15:15

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1531
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49123

Well Name & No. Rudolph #1-22 Test No. 6 Date 4-13-13
 Company Shakespeare Oil Co. Inc. Elevation 3033 KB 3025 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig HD Rig #2
 Location: Sec. 22 Twp. 17S Rge. 33W Co. Scott State KS

Interval Tested 4475 4560 Zone Tested Pawnee Ft Scott Myrick Station
 Anchor Length _____ 85' Drill Pipe Run 4351 Mud Wt. 9.2
 Top Packer Depth _____ 4471 Drill Collars Run 119 Vis 56
 Bottom Packer Depth _____ 4475 Wt. Pipe Run 0 WL 8.0
 Total Depth _____ 4560 Chlorides 7000 ppm System LCM 1/2"
 Blow Description Weak surface blow built to 1/2 in.
Dead no blow back
Dead no blow
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>Mud</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT 116 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2284</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>8:57</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>N/C</u>	T-Started <u>9:36</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>12:17</u>
(D) Initial Shut-In <u>74</u>	<input checked="" type="checkbox"/> Circ Sub <u>W/C</u>	T-Pulled <u>15:17</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:30</u>
(F) Second Final Flow <u>19</u>	<input checked="" type="checkbox"/> Mileage <u>20 R/T</u> 31	Comments _____
(G) Final Shut-In <u>55</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2168</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1531</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1531</u>	

Approved By _____ Our Representative [Signature]

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49124

Well Name & No. Rudolph #1-25 Test No. 7 Date 4-14-13
 Company Shakespeare Oil Co. Inc. Elevation 3033 KB 3025 GL
 Address _____
 Co. Rep / Geo. Tim Priest Rig HD Rig # 2
 Location: Sec. 22 Twp. 17S Rge. 33W Co. Scott State KS

Interval Tested 4635 4703 Zone Tested Marrow
 Anchor Length _____ 68' Drill Pipe Run 4500 Mud Wt. 9.1
 Top Packer Depth _____ 4631 Drill Collars Run 2119 Vis 56
 Bottom Packer Depth _____ 4635 Wt. Pipe Run 0 WL 8.0
 Total Depth _____ Chlorides 7000 ppm System LCM 1

Blow Description Weak surface blow built to 1 1/2 in
Dead no blow back
Fair blow built to 6 in.
Weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>MCGO</u>	<u>5</u>	<u>20</u>	<u>75</u>	
<u>60</u>	<u>MCGO</u>	<u>5</u>	<u>75</u>	<u>20</u>	
<u>65</u>	<u>60</u>	<u>25</u>	<u>75</u>		
_____	_____	_____	_____	_____	_____
<u>0</u>	<u>175' GIP</u>	<u>100</u>	_____	_____	_____
Rec Total <u>185</u>	BHT <u>123</u>	Gravity <u>27</u>	API RW <u>26</u>	@ <u>50</u> °F	Chlorides _____ ppm

(A) Initial Hydrostatic 2343 Test 1250 T-On Location 16:40
 (B) First Initial Flow 15 Jars _____ T-Started 17:42
 (C) First Final Flow 50 Safety Joint _____ T-Open 20:15
 (D) Initial Shut-In 1266 Circ Sub NIC T-Pulled 23:30
 (E) Second Initial Flow 57 Hourly Standby _____ T-Out 2:00 (4-15)
 (F) Second Final Flow 87 Mileage 20 R/T 62 Comments _____
 (G) Final Shut-In 1262 Sampler _____ loaded tools @ 11:30 on 4/15
 (H) Final Hydrostatic 2307 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1562
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1562

Approved By _____ Our Representative [Signature]

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49229

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

GENERAL INFORMATION:

Formation: **LKC " D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:09:10

Time Test Ended: 17:49:54

Test Type: Conventional Straddle (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4068.00 ft (KB) To 4092.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4100.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 134.92 psig @ 4069.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.08

End Date:

2013.04.08

Last Calib.:

2013.04.08

Start Time:

10:04:00

End Time:

17:49:54

Time On Btm:

2013.04.08 @ 12:08:40

Time Off Btm:

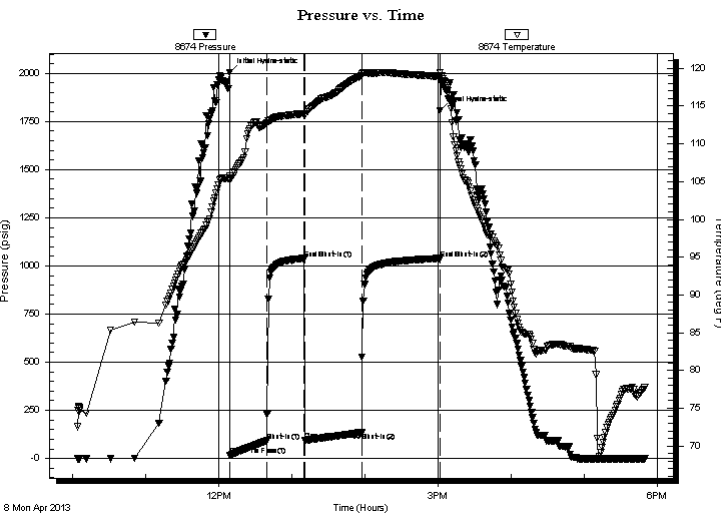
2013.04.08 @ 15:01:39

TEST COMMENT: IF- Weak Surface Blow Built to 4"

IS- No Blow

FF- Weak Surface Blow Built to 1 1/4"

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2004.68	105.71	Initial Hydro-static
1	15.55	105.25	Open To Flow (1)
31	91.79	112.68	Shut-In(1)
62	1038.96	114.00	End Shut-In(1)
62	93.76	113.76	Open To Flow (2)
109	134.92	119.05	Shut-In(2)
173	1038.50	118.94	End Shut-In(2)
173	1807.00	119.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.59
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.31
60.00	OWCM 8%oil 34%w 58%m	0.84
82.00	OWCM 12%oil 20%w 68%m	1.15
40.00	Oil 100%	0.56

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

22-17s-33w Scott Co. KS
Rudolph # 1-22
 Job Ticket: 49229 **DST#: 2**
 Test Start: 2013.04.08 @ 10:04:00

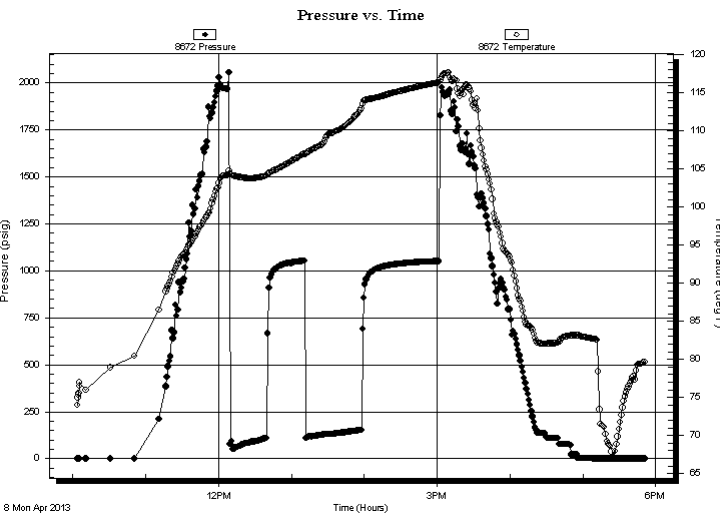
GENERAL INFORMATION:

Formation: **LKC " D "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 12:09:10 Tester: Will MacLean
 Time Test Ended: 17:49:54 Unit No: 58
Interval: 4068.00 ft (KB) To 4092.00 ft (KB) (TVD)
 Reference Elevations: 3033.00 ft (KB)
 Total Depth: 4100.00 ft (KB) (TVD) 3025.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8672

Press @ Run Depth: psig @ 4097.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.08 End Date: 2013.04.08 Last Calib.: 2013.04.08
 Start Time: 10:04:05 End Time: 17:51:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF- Weak Surface Blow Built to 4"
 IS- No Blow
 FF- Weak Surface Blow Built to 1 1/4"
 FS- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.59
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.31
60.00	OWCM 8%oil 34%w 58%m	0.84
82.00	OWCM 12%oil 20%w 68%m	1.15
40.00	Oil 100%	0.56

* 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

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49229

DST#: 2

ATTN: Tim Priest

Test Start: 2013.04.08 @ 10:04:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OGMCW 2%oil 4%g 22%m 72%w	0.590
60.00	GOMCW 4%g 7%oil 28%m 61%w	0.313
60.00	OWCM 8%oil 34%w 58%m	0.842
82.00	OWCM 12%oil 20%w 68%m	1.150
40.00	Oil 100%	0.561

Total Length: 362.00 ft Total Volume: 3.456 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .207 @ 73f = 34000

API is 22 @ 70f = 21

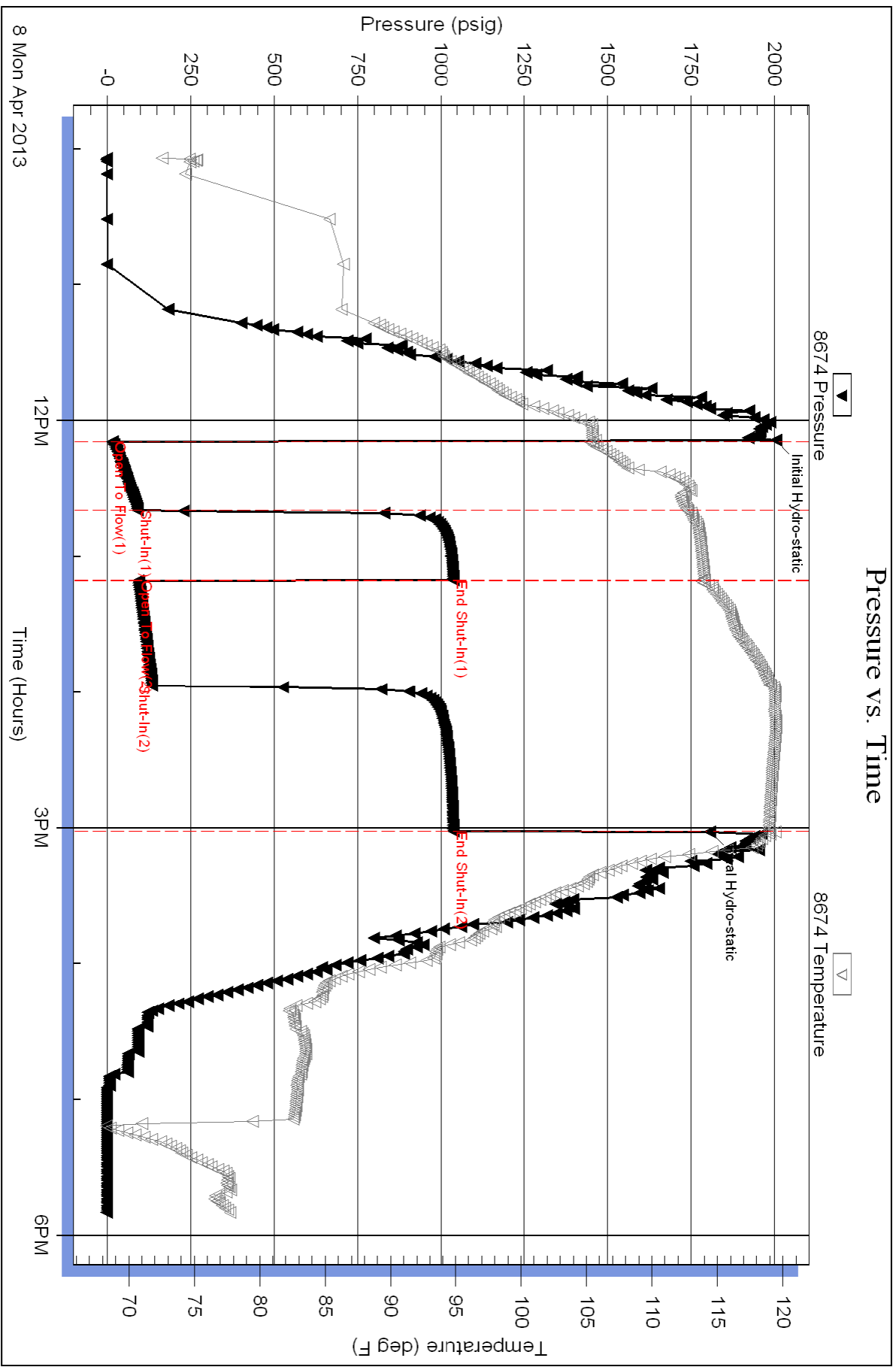
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 2

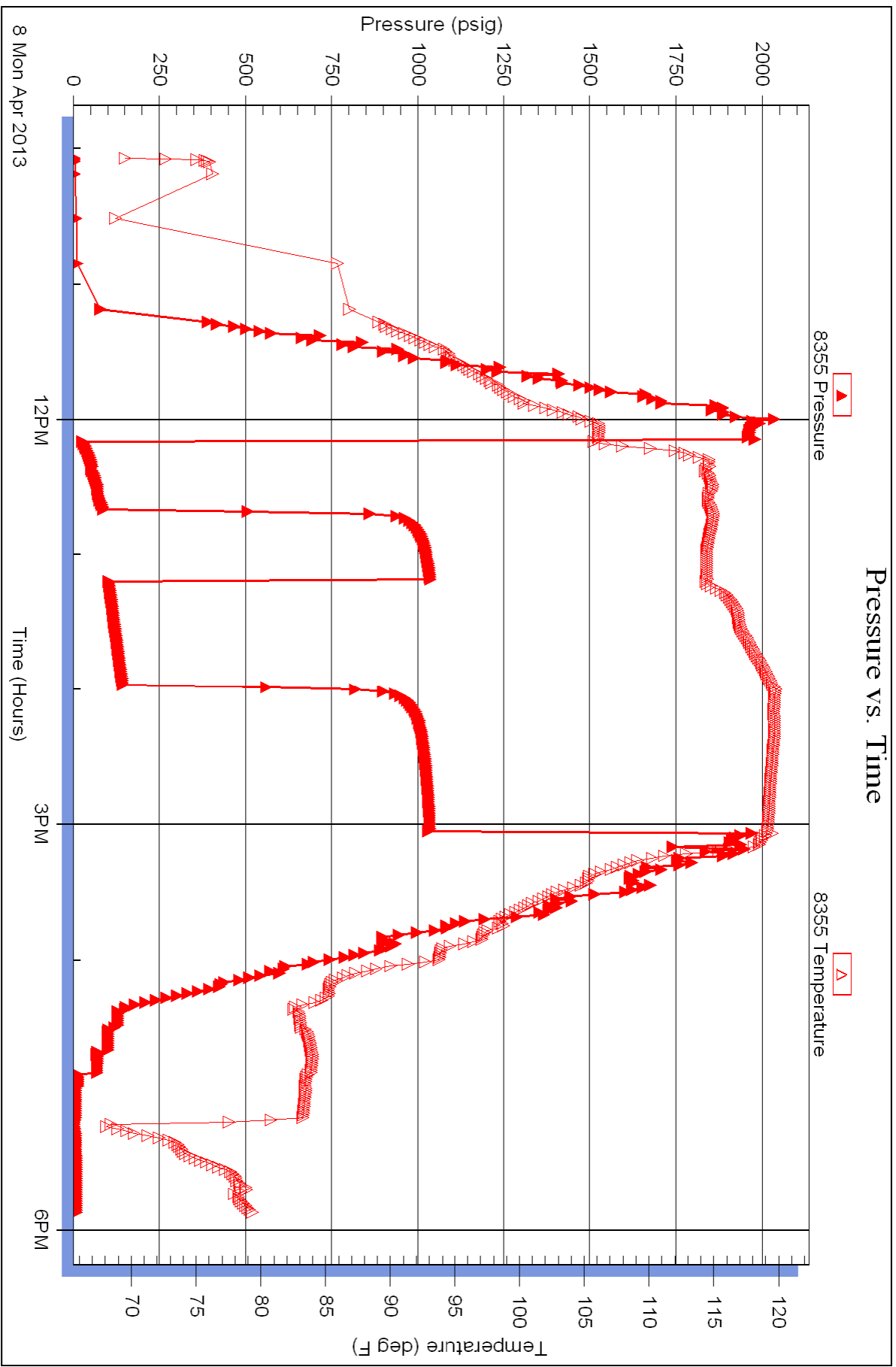


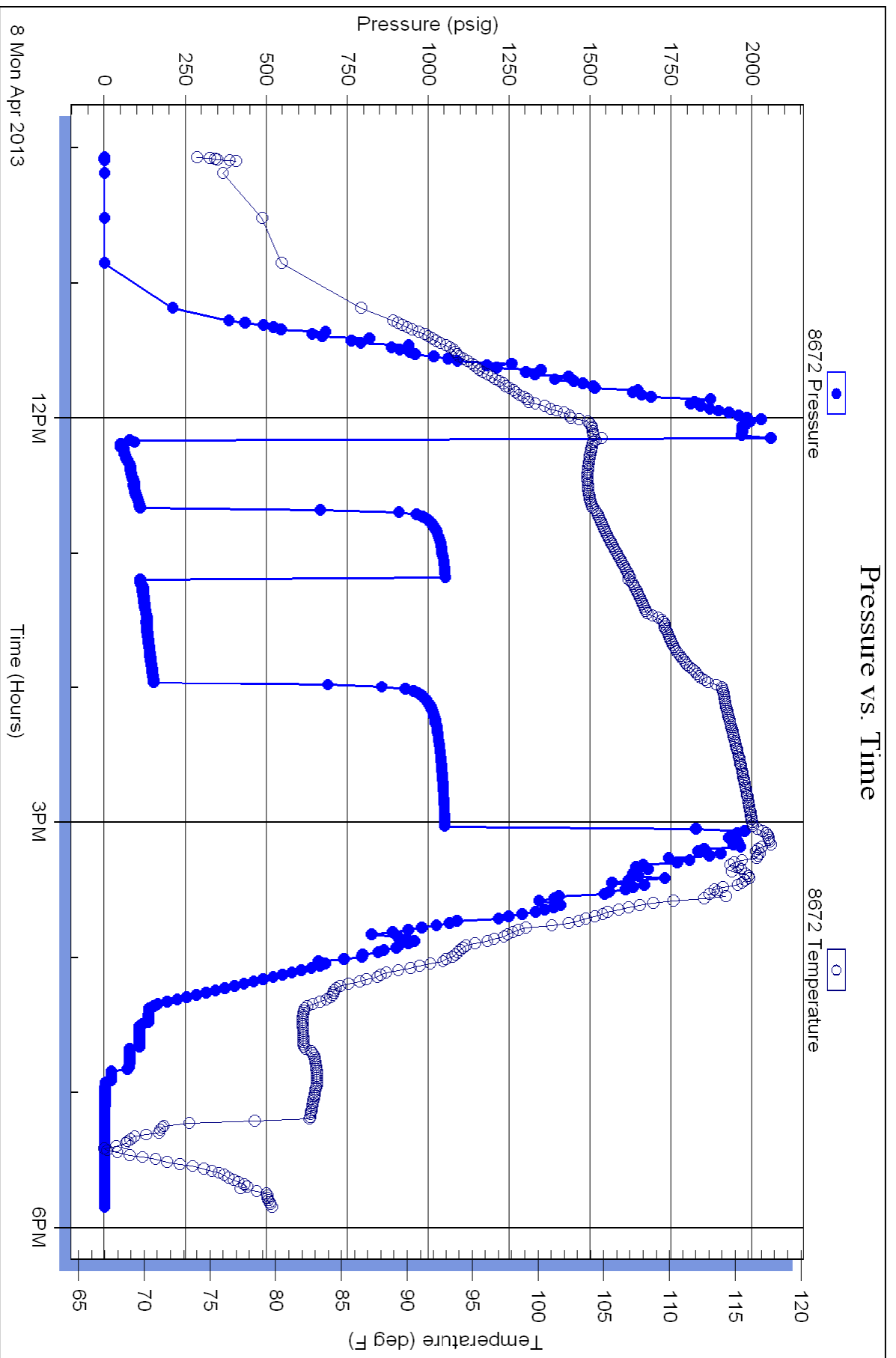
Serial #: 8355

Outside Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 2







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49230

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.10 @ 06:46:00

GENERAL INFORMATION:

Formation: **LKC " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:21:40

Time Test Ended: 15:47:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4305.00 ft (KB) To 4340.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 787.46 psig @ 4308.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.10

End Date:

2013.04.10

Last Calib.:

2013.04.10

Start Time: 06:46:00

End Time:

15:47:25

Time On Btm:

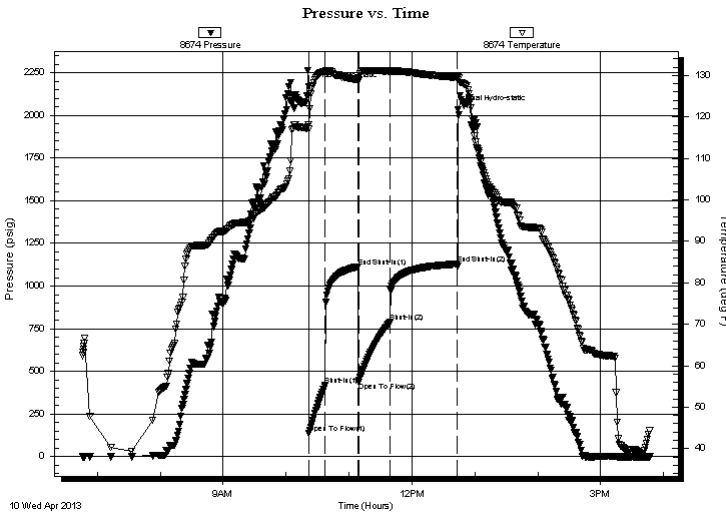
2013.04.10 @ 10:21:25

Time Off Btm:

2013.04.10 @ 12:43:54

TEST COMMENT: IF- Surface Blow Built to BOB in 2min
IS- No Blow
FF- Surface Blow Built to BOB in 2 3/4min
FS- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.24	118.20	Initial Hydro-static
1	135.83	117.09	Open To Flow (1)
16	420.07	130.93	Shut-In(1)
47	1113.21	128.90	End Shut-In(1)
48	437.04	128.68	Open To Flow (2)
78	787.46	131.06	Shut-In(2)
142	1128.86	129.53	End Shut-In(2)
143	2035.21	129.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
863.00	MCW 5%w 95%w	11.02
496.00	MCW 14%w 86%w	6.96
248.00	WCM 45%w 55%w	3.48
206.00	WCM 27%w 73%w with a Few Oil Sp	2.89

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

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49230

DST#: 3

ATTN: Tim Priest

Test Start: 2013.04.10 @ 06:46:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.39 in³
Resistivity: ohm.m
Salinity: 5800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 55000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
863.00	MCW 5%m 95%w	11.022
496.00	MCW 14%m 86%w	6.958
248.00	WCM 45%w 55%m	3.479
206.00	WCM 27%w 73%m with a Few Oil Spots	2.890

Total Length: 1813.00 ft Total Volume: 24.349 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW is .218 @ 43f = 55000

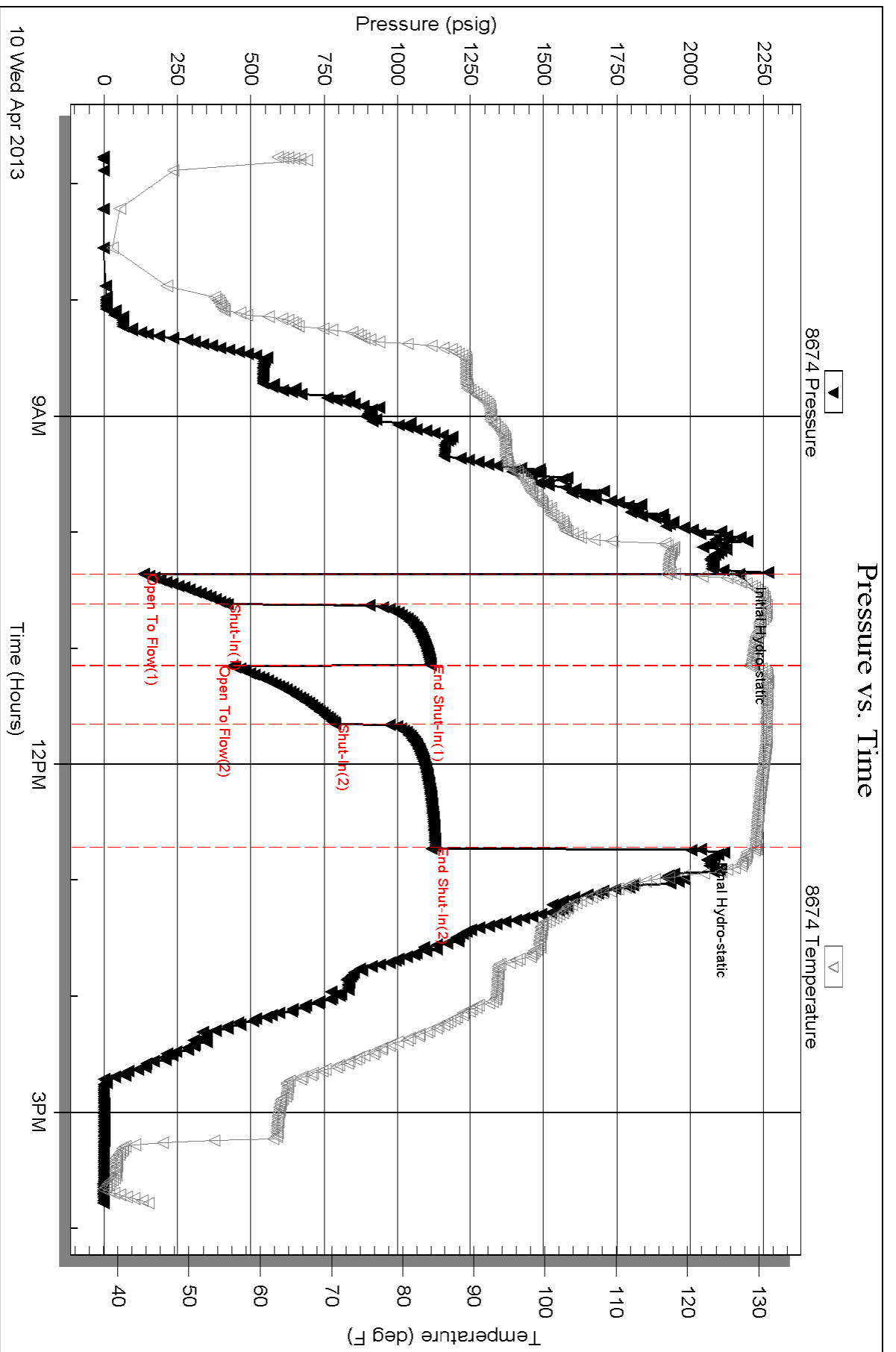
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49231

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.11 @ 07:28:00

GENERAL INFORMATION:

Formation: **Marmanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:08:40

Time Test Ended: 15:04:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4378.00 ft (KB) To 4427.00 ft (KB) (TVD)

Total Depth: 4427.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3033.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8674 Inside

Press @ Run Depth: 28.98 psig @ 4382.00 ft (KB)

Start Date: 2013.04.11

End Date:

2013.04.11

Start Time: 07:28:00

End Time:

15:04:39

Capacity: 8000.00 psig

Last Calib.: 2013.04.11

Time On Btm: 2013.04.11 @ 10:08:10

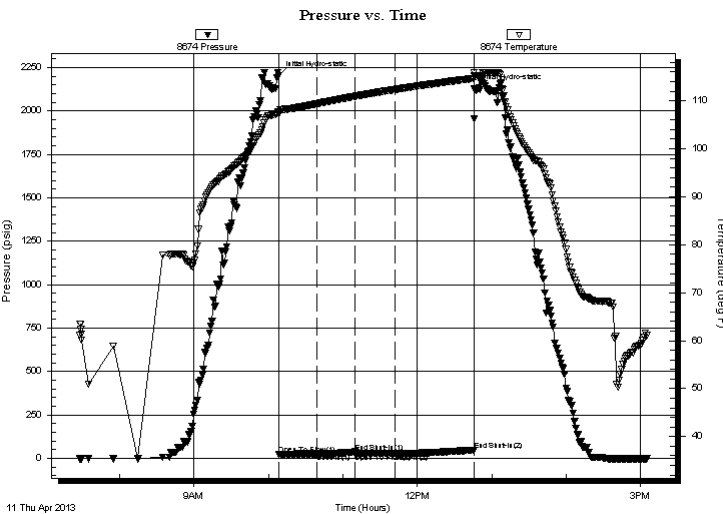
Time Off Btm: 2013.04.11 @ 12:45:54

TEST COMMENT: IF- Weak Surface Blow Died in 9 min

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.48	107.61	Initial Hydro-static
1	24.50	107.39	Open To Flow (1)
31	27.20	109.40	Shut-In(1)
62	37.59	110.93	End Shut-In(1)
62	26.92	110.93	Open To Flow (2)
94	28.98	112.33	Shut-In(2)
158	48.52	114.68	End Shut-In(2)
158	2127.77	115.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% mud Few Oil Spots in Tool	0.10

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

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49231

DST#: 4

ATTN: Tim Priest

Test Start: 2013.04.11 @ 07:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	100% mud Few Oil Spots in Tool	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

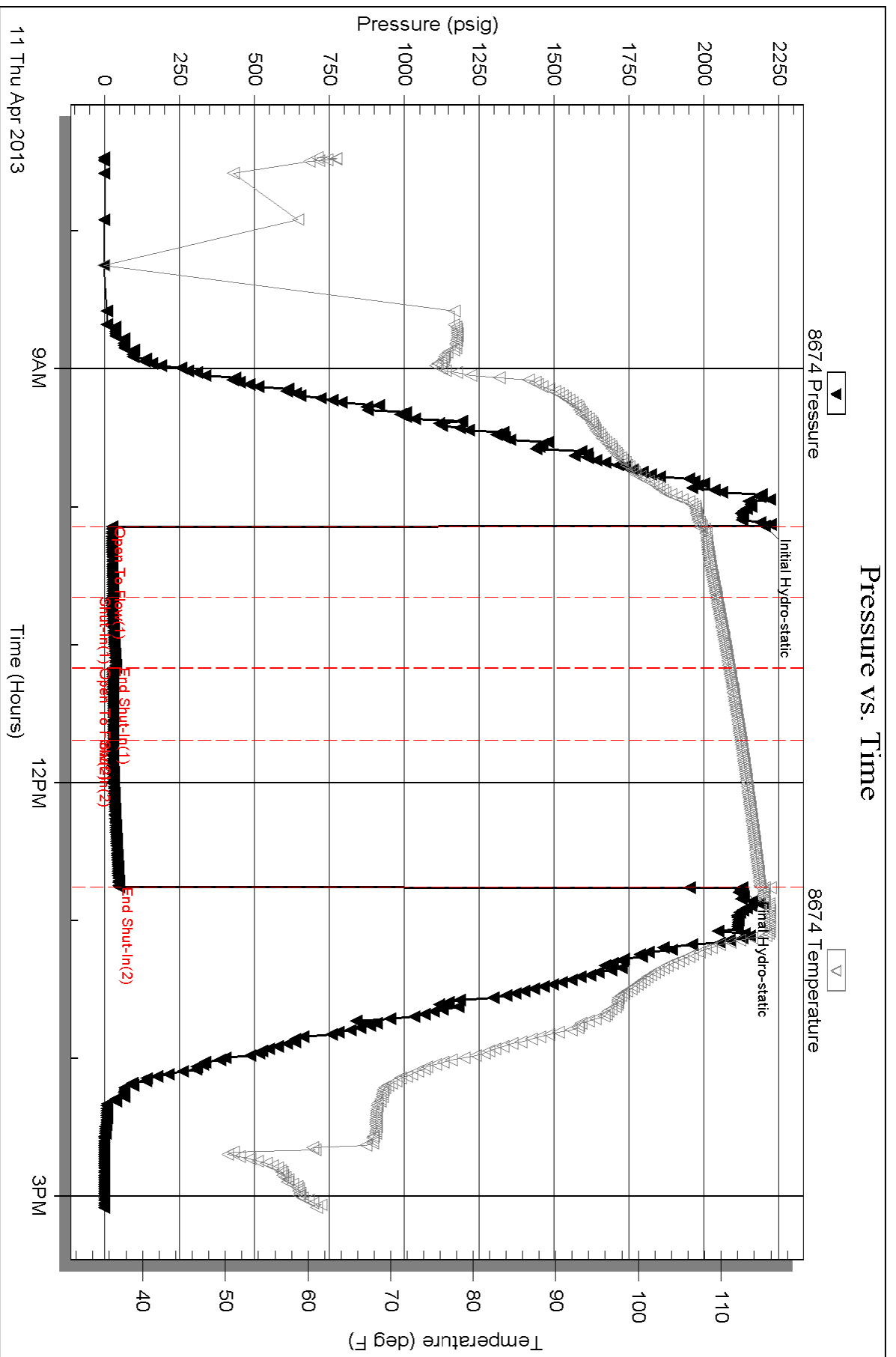
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 4





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49121

DST#: 5

ATTN: Tim Priest

Test Start: 2013.04.12 @ 06:51:36

GENERAL INFORMATION:

Formation: **Marmaton "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:37:21

Time Test Ended: 15:14:51

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 58

Interval: 4430.00 ft (KB) To 4425.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4455.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ RunDepth: 363.45 psig @ 4431.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.12

End Date:

2013.04.12

Last Calib.:

2013.04.12

Start Time: 06:51:41

End Time:

15:14:50

Time On Btm:

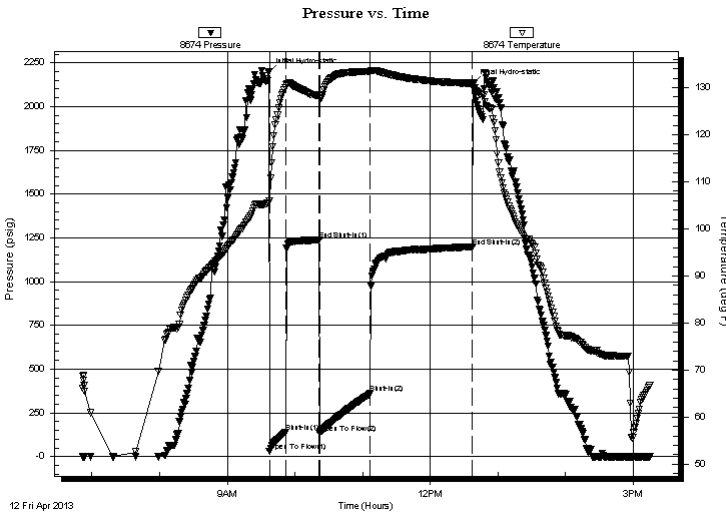
2013.04.12 @ 09:36:51

Time Off Btm:

2013.04.12 @ 12:37:51

TEST COMMENT: B.O.B. In 10 mins.
Dead no blow back.
B.O.B. in 10 mins.
Dead no blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2195.72	105.58	Initial Hydro-static
1	30.54	105.88	Open To Flow (1)
15	138.15	130.07	Shut-In(1)
45	1236.78	128.33	End Shut-In(1)
45	134.82	127.62	Open To Flow (2)
90	363.45	133.40	Shut-In(2)
181	1199.40	130.86	End Shut-In(2)
181	2132.21	131.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	2%M 98%W	4.81
180.00	15%M 85%W	2.52
60.00	30%M 70%W	0.84
160.00	40%W 60%M	2.24

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

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49121

DST#: 5

ATTN: Tim Priest

Test Start: 2013.04.12 @ 06:51:36

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

47000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
420.00	2%M 98%W	4.807
180.00	15%M 85%W	2.525
60.00	30%M 70%W	0.842
160.00	40%W 60%M	2.244

Total Length: 820.00 ft Total Volume: 10.418 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .152 @ 68F = 47000

Serial #: 8674

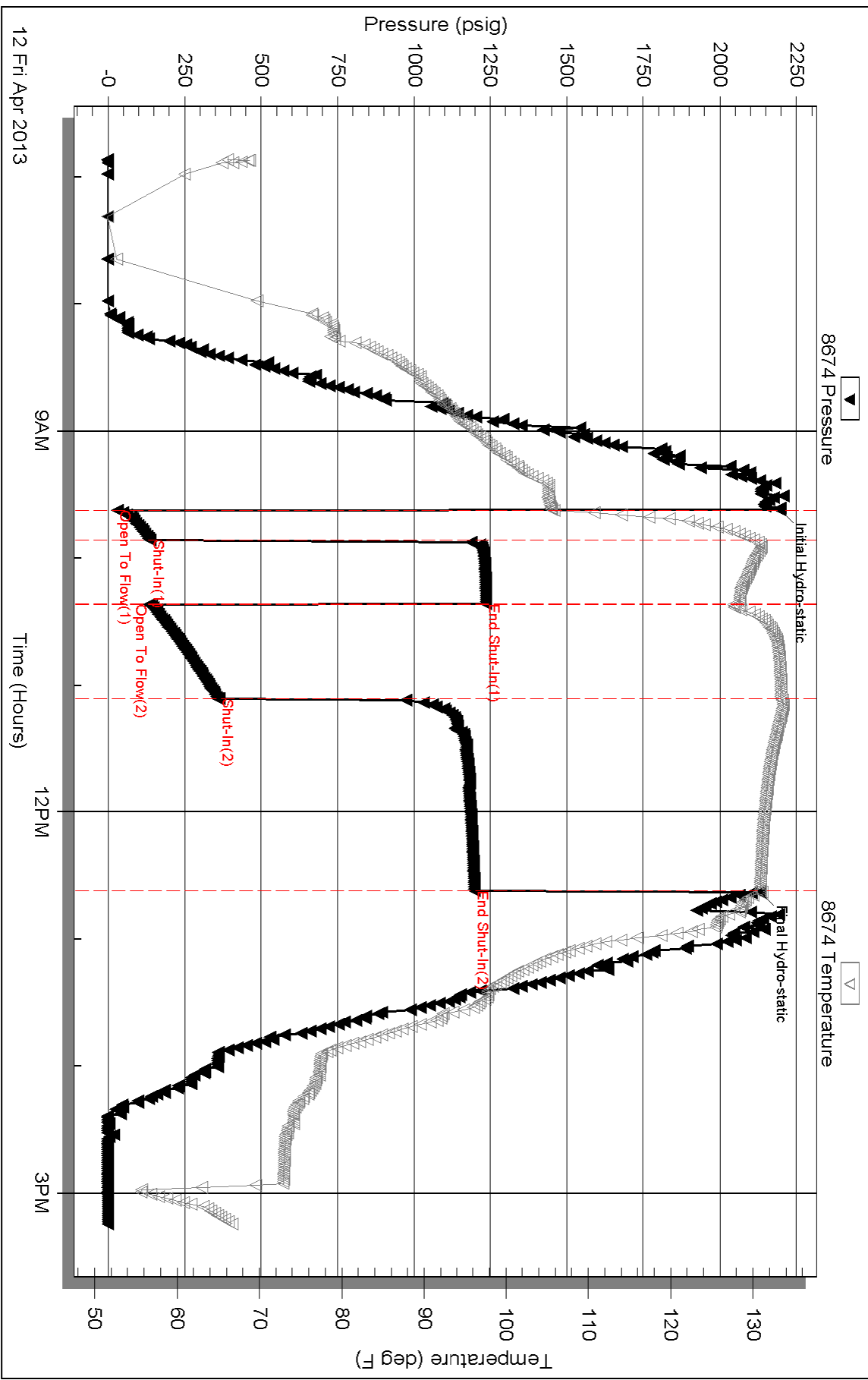
Inside

Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 5

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49123

DST#: 6

ATTN: Tim Priest

Test Start: 2013.04.13 @ 09:36:59

GENERAL INFORMATION:

Formation: **Paw/MS/FS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:16:44

Time Test Ended: 17:29:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 58

Interval: 4475.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 19.49 psig @ 4476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.13

End Date:

2013.04.13

Last Calib.:

2013.04.13

Start Time: 09:37:04

End Time:

17:29:13

Time On Btm:

2013.04.13 @ 12:16:29

Time Off Btm:

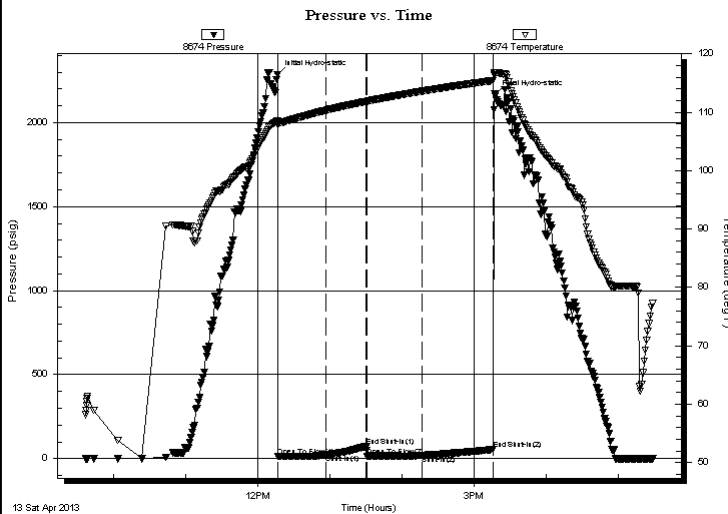
2013.04.13 @ 15:17:14

TEST COMMENT: Weak surface blow built to 1/2 in.

Dead no blow

Dead no blow

Dead no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.07	108.44	Initial Hydro-static
1	14.26	107.80	Open To Flow (1)
41	22.40	110.32	Shut-In(1)
74	74.49	111.87	End Shut-In(1)
75	15.31	111.87	Open To Flow (2)
121	19.49	113.60	Shut-In(2)
180	54.57	115.43	End Shut-In(2)
181	2168.33	116.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M	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. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49123

DST#: 6

ATTN: Tim Priest

Test Start: 2013.04.13 @ 09:36:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

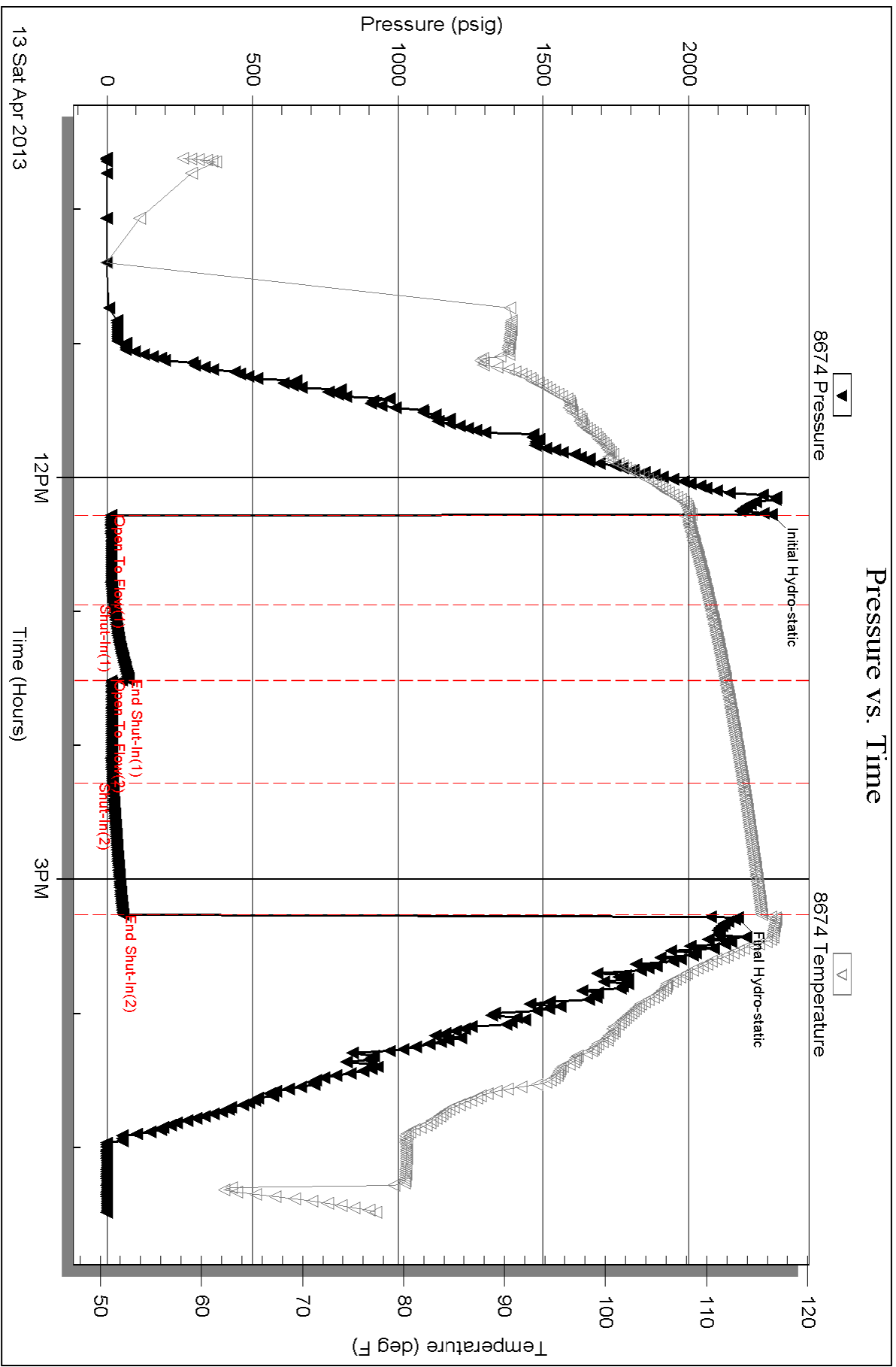
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 6





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49124

DST#: 7

ATTN: Tim Priest

Test Start: 2013.04.14 @ 17:42:03

GENERAL INFORMATION:

Formation: **Marrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:12:48

Time Test Ended: 01:58:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 58

Interval: 4635.00 ft (KB) To 4703.00 ft (KB) (TVD)

Reference Elevations: 3033.00 ft (KB)

Total Depth: 4703.00 ft (KB) (TVD)

3025.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8674

Inside

Press @ Run Depth: 50.00 psig @ 4636.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.14

End Date:

2013.04.15

Last Calib.:

2013.04.15

Start Time:

17:42:08

End Time:

01:58:02

Time On Btm:

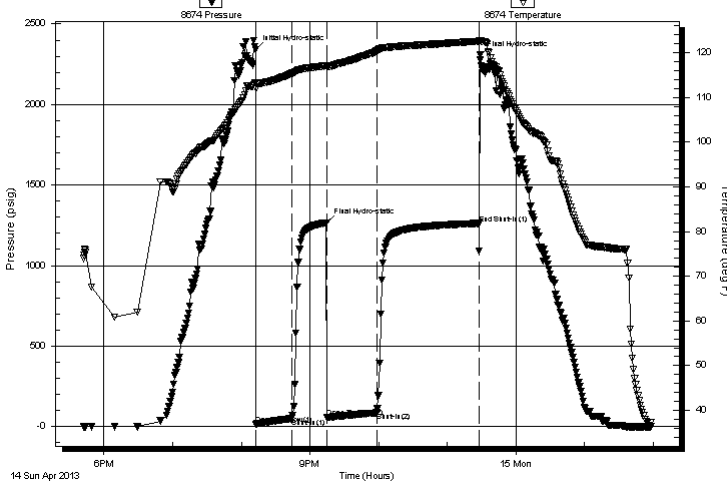
2013.04.14 @ 20:12:33

Time Off Btm:

2013.04.14 @ 21:14:18

TEST COMMENT: Weak surface blow built to 1 1/2 in.
Dead no blow back
Fair surface blow built to 6 in.
Weak surface blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2343.47	113.30	Initial Hydro-static
1	15.26	112.09	Open To Flow (1)
32	50.00	115.36	Shut-In(1)
62	1265.91	117.14	Final Hydro-static
63	56.74	116.80	Open To Flow (2)
106	86.52	120.38	Shut-In(2)
195	1261.81	122.61	End Shut-In(1)
196	2306.53	122.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	5%G 20%O 75%M	0.30
60.00	5%G 20%M 75%O	0.30
65.00	25%G 75%O	0.91
0.00	175 GIP	0.00

* 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

22-17s-33w Scott Co. KS

202 W Main St.
Salem IL 62881

Rudolph # 1-22

Job Ticket: 49124

DST#: 7

ATTN: Tim Priest

Test Start: 2013.04.14 @ 17:42:03

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	5%G 20%O 75%M	0.295
60.00	5%G 20%M 75%O	0.304
65.00	25%G 75%O	0.912
0.00	175 GIP	0.000

Total Length: 185.00 ft Total Volume: 1.511 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: AIP 26 @ 50 F = 27

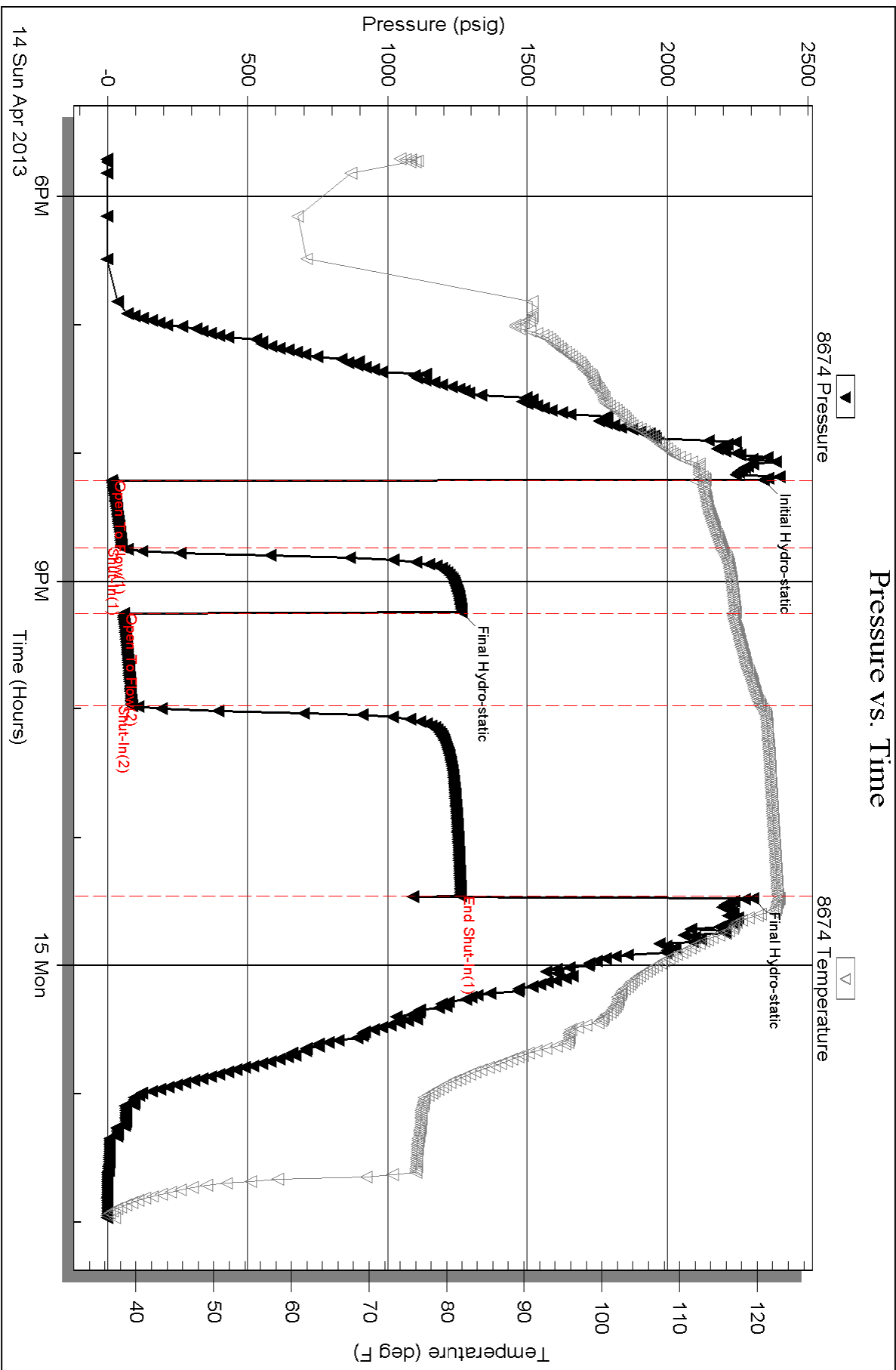
Serial #: 8674

Inside

Shakespeare Oil Co. Inc

Rudolph # 1-22

DST Test Number: 7

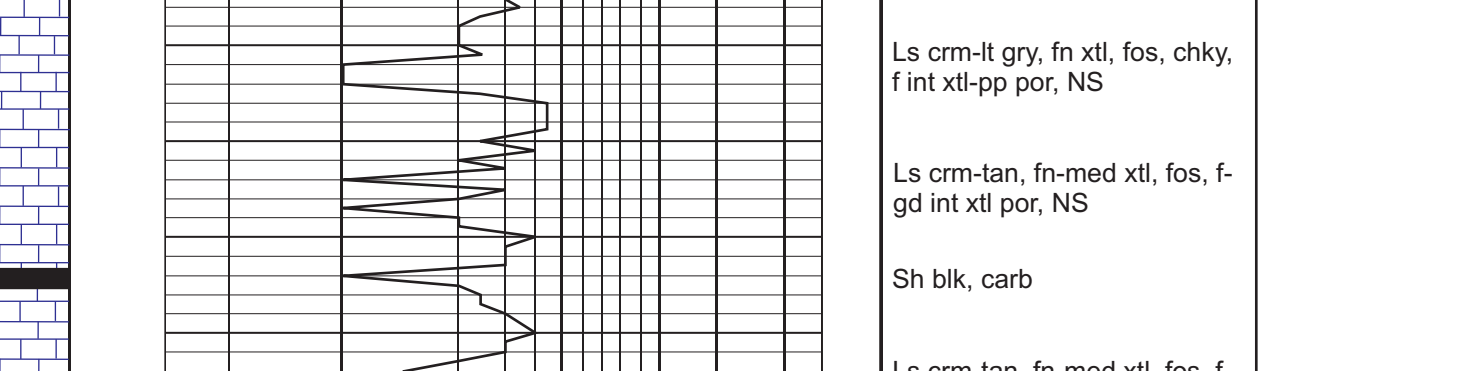


GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY SHAKEESPARE OIL CO.
LEASE Rudolph-1-22
FIELD Wichita
LOCATION 1450' FSL, 1350' FEL
SEC 28 T19SP 16S R0E 34W
COUNTY Scott STATE Kansas
CONTRACTOR HD Rig #2
SPUD 4-1-13 **COMP** 4-16-13
RTD 4940' **LTD** 4939'
MUD UP 3350' **TYPE MUD** Chemical
SAMPLES SAVED FROM 3800' to RTD
DRILLING TIME KEPT FROM 3800' to RTD
SAMPLES EXAMINED FROM 3800' to RTD
GEOLOGICAL SUPERVISION FROM 3900' to RTD
GEOLOGIST ON WELL Tim Priest
FORMATION TOPS ELECTRIC LOG **SAMPLE**
 Anhydrite 2382 (-657) 2380 (+655)
 Heebner Shale 3946 (-913) 3947 (-912)
 Lansing 3987 (-952) 3988 (-953)
 Stark 4264 (-1229) 4266 (-1231)
 B/K.C. 4359 (-1324) 4362 (-1327)
 Fort Scott 4533 (-1498) 4535 (-1500)
 Cherokee Shale 4560 (-1525) 4562 (-1527)
 Mississippian 4694 (-1639) 4696 (-1661)

ELEVATIONS
 KB 3033'
 DF _____
 GL 3025'
Measurements Are All From KB
CASING
 CONDUCTION N/A
PRODUCTION 5 1/2 @ 4940'
SURFACE 8-5/8" @ 264'
ELECTRICAL SURVEYS
 CND/D/SP/P/E
 Micro
 By: Weatherford

REMARKS Due to the results of DSTs, it was decided to set production casing to further test the well.
 Respectfully Submitted,
 Tim Priest
 Petroleum Geologist
 API #15-171-20938-00-00



LEGEND
 Anhydrite Sandstone Limestone Shale Carb Sh Cherty LS Chert Dolomite

DEPTH 2400 3800 50 3900 50 4000 50 4100 50 4200 50 4300 50 4400 50 4500 50 4600 50 4700 50 4800 50 4900 4940
LITHOLOGY

SAMPLE DESCRIPTION
 Anhydrite 2380(+655)
 Base/ Anhydrite 2400(+635)
 Ls crm-tan, fn xtl, fos, chky, dntse
 Sh blk, carb
 SS/Silts lt gry, vfn grn, dnse
 Ls tan, vfn xtl, dnse
 Ls tan, vfn xtl, dnse
 Ls crm-t gry, fn xtl, fos, chky, f int xtl-pp por, NS
 Ls crm-tan, fn-med xtl, fos, f-gd int xtl por, NS
 Sh blk, carb
 Ls crm-tan, fn-med xtl, fos, f-gd int xtl por, NS
 Ls crm-lt gry, vfn xtl, dnse, w/ wh cht
 Ls crm-lt gry, fn xtl, fos, chky, f int xtl-pp por, NS
 Ls crm-gry, fn xtl, fos, chky, f-gd int xtl-pp por, NS
 Sh blk, carb
 Sh gry-dk gry, calc
 Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS
 Sh grn-gry
 Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS
 Ls crm, fn xtl, fos, chky, chty, dnse
 Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, NS
 Sh blk, carb
 Sh gry, calc
 Ls crm, fn xtl, fos, chky, p int xtl-pp por, spdt dk stn on few pcs, VSSFO, v sil odor, dull fluor
 Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, spdt-sat stn on 30%, SFO & GB, strong odor, dull fluor
 Ls crm-lt gry, fn xtl, sil fos, chky, dnse
 Ls crm-lt gry, mic xtl, dnse
 Sh gry-blk
 Ls crm-lt gry, fn xtl, ool, sil chky, p-f int xtl-pp por, NS
 Ls tan, fn-med xtl, dolo, fos, f int xtl por w/ef vugs, NS
 Ls crm, mic xtl, chty, dnse
 Sh gry-dk gry
 Ls crm-lt gry, fn xtl, fos, chky, p int xtl-pp por, NS
 Ls crm-lt gry, vfn xtl, sil chty, dnse
 Ls crm-lt gry, fn xtl, fos, chky, p int xtl-pp por, NS
 Ls crm-lt gry, vfn xtl, chty, dnse
 Ls crm-lt gry, vfn xtl, chty, dnse
 Sh blk, carb
 Ls crm-tan, fn xtl, sil fos, sil chty, dnse
 Ls crm, fn xtl, fos, chky, p int xtl-pp por, NS
 Ls crm, fn xtl, fos, chky, p int xtl-pp por, NS
 Sh dk gry-blk
 Ls crm-gry motld, vfn xtl, fos, arg in prt, dnse
 Ls crm-lt gry, vfn xtl, sil chty, dnse
 Ls crm-lt gry, vfn xtl, fos, dnse
 Sh gry-dk gry
 Ls crm, fn xtl, ool, chky, f int xtl & ooc por, NS
 Ls crm-lt gry, vfn xtl, fos, dnse
 Sh blk, carb
 Sh gry
 Ls crm-lt gry, fn xtl, fos, chky, p int xtl & int frag por, NS
 Ls crm-gry, vfn xtl, dnse
 Ls crm-gry, fn xtl, fos, chky, p-f int xtl-pp por, NS
 Sh blk, carb
 Ls lt gry-gry, fn xtl, fos, sil chky, p-f int xtl-pp por, spdt-sat stn, SFO, f odor, dull fluor
 Ls tan-gry, vfn xtl, sil fos, chky, dnse
 Ls crm-lt gry, vfn xtl, dnse
 Sh dk gry-blk
 Ls crm-lt gry, vfn xtl, dnse
 Ls lt gry-gry, fn xtl, fos-sub ool, p-f int xtl & pp-vug por, NS
 Sh blk, carb
 SS/Silts lt gry-gry, vfn-fn grm, sil fria-tite, NS
 Ls crm-lt gry, vfn xtl, dnse
 Sh gry-blk
 Ls crm-lt gry, fn xtl, fos-sub ool, chky, p-f int xtl-pp por, spdt-sat stn, SFO, f-strong odor, dull-f fluor
 Ls gry
 Sh gry
 Ls gry, mic xtl, sil fos, dnse
 Ls crm-lt gry, fn xtl, fos-ool, sil chky, p-f int xtl-pp por, spdt-sat stn, SSFO, sil odor, dull fluor
 Ls crm-lt gry, mic xtl, dnse
 Sh blk, carb
 Ls lt gry-gry, vfn xtl, arg in prt
 Ls crm-lt gry, fn xtl, fos, sil chky, p-f int xtl-pp por, spdt stn on few pcs, VSSFO, no odor, dull fluor
 Ls crm-lt gry, fn xtl, sil fos, sil chky, p int xtl-pp por, NS
 Ls crm-tan, vfn xtl, chty, dnse
 Sh blk, carb
 Ls crm-tan, fn xtl, ool, sil chky, p int xtl-pp por, spdt-sat stn, VSSFO, sil odor, dull fluor
 Sh blk, carb
 Ls crm-tan, fn xtl, ool, sil chky, p int xtl-pp por, spdt-sat stn, VSSFO, sil odor, dull fluor
 Sh gry-dk gry
 Ls crm-tan-gry, vfn xtl, dnse
 Sh blk, carb
 Ls crm-tan-gry motld, fn xtl, fos, chky, f int frag por, NS
 Sh grn-gry
 Ls crm-lt gry, vfn xtl, dnse
 Ls tan-gry, vfn xtl, w/int bed blk carb Sh
 Sh grn-gry
 Ls crm-lt gry, vfn xtl, dnse
 Sh grn-gry
 Ls crm-lt gry, fn xtl, sil fos, sil chky, no vis por, NS
 Ls tan-gry, vfn xtl, chky, dnse
 Ls crm-lt gry, vfn xtl, sil chty, dnse
 Ls crm-lt gry, vfn-fn xtl, sil fos, p int xtl-pp por, spdt stn on few pcs, VSSFO, sil odor, dull fluor
 Ls lt gry-gry, vfn xtl, dnse
 Ls crm-lt gry, vfn-fn xtl, sil fos, p int xtl-pp por, spdt stn on few pcs, VSSFO, sil odor, dull fluor
 Ls crm-tan, vfn xtl, dnse
 SS clear-gry-dk gry, fn-med chky, well cement, sil fria, sme dk inclusions, dirty, sil sat stn, SSFO, sil-f odor, no fluor
 Sh grn-gry, silty
 SS lt gry-gry, fn grm, friable w/ sme loose grms, few pcs w/int stn, SSFO, sil odor, dull fluor
 Ls crm-tan-lt gry, vfn xtl, sil sandy, dnse
 Ls crm-lt gry, vfn xtl, v sandy, chky, sil fria, most dnse
 Ls crm-lt gry, vfn xtl, v sandy, chky, sil fria, most dnse
 Ls lt gry, vfn xtl, ool, sil chky, dnse
 Ls crm-lt gry, mic xtl, dnse
 ? Poor samples. Abundant red shale from uphole. Very few sand pcs or loose grains)
 Ls crm-tan, mic xtl, sil sandy, sil chty, dnse
 Ls crm-lt gry, vfn xtl, sub chky, dnse
 Ls lt gry, vfn xtl, ool, sil chky, dnse
 Ls crm-lt gry, mic xtl, dnse
 Ls crm-lt gry motld, fn xtl, sil dolo in prt, fos, p-f int xtl & int frag por, NS
 Ls/Dol tan-gry, fn xtl, suc in prt, sme int xtl por, most dnse, NS
 Ls/Dol crm-tan-gry motld, fn xtl, suc in prt, sil chty, p int xtl por, NS
 Ls crm-tan, mic xtl, chty, dnse
 Ls lt gry-gry motld, vfn xtl, dolo in prt, sub chky in prt, dnse

REMARKS
 Anhydrite 2380(+655)
 Base/ Anhydrite 2400(+635)
 Heebner 3947 (-912)
 Toronto 3986 (-931)
 Lansing 3988 (-953)
 DST # 1 (4014'-4055')
 15'-30'-30'-60'
 FF: Bob in 2 3/4", no return
 Rec: 563 MCW(60%W,40%MI, 1235 MCW(56%W,43%MI), Total: 1798#
 Fps: 101-426#(440-807#)
 SIPS: 1016#(1016#)
 HSPs: 1056#(1026#)
 BHT: 124 deg F
 Chlor: 150ppm
 Pipe strap @ 4055' was 3.86' long to board
 DST # 2 (4088'-4092')
 30'-30'-30'-60'
 FF: (bottom packer failed)
 Rec: 49' CO, 82' COW
 62%CO,37%CO, 68%MI, 60' WMM(85%W,55%MI), 60' WMM(85%W,55%MI), 60' WMM(85%W,55%MI), 60' WMM(85%W,55%MI), 60' WMM(85%W,55%MI), 60' WMM(85%W,55%MI), Total: 362#
 Fps: 15-8#(8#)-134#
 SIPS: 2004#(1038#)
 HSPs: 2004#(1807#)
 BHT: 114 deg F
 Chlor: 34.00ppm
 Muncie Creek 4168 (-1133)
 Stark Shale 4266 (-1231)
 Hushpuckney Shale 4312 (-1277)
 DST # 3 (4305'-4340')
 15'-30'-30'-60'
 FF: Bob in 2 3/4", no return
 Rec: 200' WM w/ool sps, 67%W,33%MI, 248' WMM (45%W,55%MI), 1359' MCW (62%W,38%MI), Total: 1613#
 Fps: 135-420#(437-787#)
 SIPS: 1133#(1128#)
 HSPs: 2167#(2026#)
 BHT: 122 deg F
 Chlor: 55.00ppm
 B/K.C. 4360 (-1325)
 DST # 4 (4370'-4427')
 30'-30'-30'-30'
 FF: Died in 9', no return
 Rec: 11' Mud
 Fps: 24-27#(26-28#)
 HSPs: 2202#(2127#)
 BHT: 115 deg F
 Marmaton 4411 (-1376)
 DST # 5 (4430'-4465')
 15'-30'-45'-90'
 FF: Bob in 10', no return
 Rec: 420' WMM(89%W,2%MI), 160' WMM(85%W,15%MI), 160' WMM(40%W,60%MI), 60' WMM(70%W,30%MI), Total: 810#
 Fps: 31-138#(135-363#)
 SIPS: 1237#(1199#)
 HSPs: 2284#(2300#)
 BHT: 131 deg F
 Chlor: 47.00ppm
 Pawnee 4483 (-1448)
 DST # 6 (4475'-4560')
 30'-30'-45'-90'
 FF: Built to 1/2 in., no return
 Rec: 11' Mud
 Fps: 14-22#(15-19#)
 SIPS: 748#(58#)
 HSPs: 2284#(2168#)
 BHT: 116 deg F
 Myric Station 4519 (-1484)
 Fort Scott 4535 (-1500)
 Cherokee Shale 4562 (-1527)
 Johnson Zone 4607 (-1572)
 DST # 7 (4635'-4703')
 30'-30'-45'-90'
 FF: Built to 1 1/2 in., no return
 Rec: 175' GIP, 65' GO
 62%CO,37%CO, 68%MI, 60' WMM(85%W,55%MI), 60' WMM(85%W,55%MI), 60' WMM(85%W,55%MI), 60' WMM(85%W,55%MI), 60' WMM(85%W,55%MI), Total: 1613#
 Fps: 15-50#(57-87#)
 SIPS: 1268#(1262#)
 HSPs: 2243#(2300#)
 BHT: 123 deg F
 Chlor: 27
 Mississippian 4696 (-1661)
 Spergen 4880 (-1845)
 Total Depth 4940' (-1905)

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

June 18, 2013

Don Williams
Shakespeare Oil Co., Inc.
202 W MAIN ST
SALEM, IL 62881-1519

Re: ACO1
API 15-171-20938-00-00
Rudolph 1-22
SE/4 Sec.22-17S-33W
Scott County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Don Williams