



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1081567
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: _____

1081567

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> <i>(Submit ACO-4)</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	Ottley 1-21
Doc ID	1081567

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Ottley 1-21
Doc ID	1081567

Tops

Name	Top	Datum
Base Anhydrite	2229	+534
Heebner	3708	-945
Lansing	3752	-989
Muncie Creek	3910	-1147
Stark Shale	3996	-1233
Hushpuckney	4031	-1268
BKC	4073	-1310
Pawnee	4209	-1446
Cherokee Shale	4292	-1529
Johnson	4334	-1571
Mississippian	4408	-1645

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Ottley 1-21
Doc ID	1081567

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	Cherokee	500 gal 15% RWR-1 w/10 gal Re-Nab, 1500 gal 15% RWR-1 w/10 gal AD-795 retarder in 1st 500 gal acid + 75 perf balls	4368-72
4	Johnson	500 gal 15% RWR-1 w/10 gal Re-Nab, 1500 gal 15% RWR-1 w/10 gal AD-795 retarder in 1st 500 gal acid + 75 perf balls	4352-57, 4343-48, 4336-41
4	Myrick Station	250 gal 15% RWR-1	4256-59
4	Marmaton	250 gal 15% RWR-1	4186-90
4	LKC "K"	50 sx common smt	4005-08
4	LKC "H"	250 gal 15% RWR-1	3929-32
4	LKC "D"	250 gal 15% RWR-1	3827-30



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 130655
Invoice Date: Mar 27, 2012
Page: 1



INT

Bill To:

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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Ottley # 1-21	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Mar 27, 2012	4/26/12

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	16.25	2,681.25
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
174.00	SER	Handling	2.25	391.50
25.00	SER	Mileage	2.25	56.25
1.00	SER	Surface	1,125.00	1,125.00
25.00	SER	Heavy Vehicle Mileage	7.00	175.00
25.00	SER	Light Vehicle Mileage	4.00	100.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Ethan Glassman		

*Surface Cementing
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

\$ *988.39*

ONLY IF PAID ON OR BEFORE
Apr 21, 2012

Subtotal	4,941.95
Sales Tax	225.88
Total Invoice Amount	5,167.83
Payment/Credit Applied	
TOTAL	5,167.83

DW

ALLIED CEMENTING CO., LLC. 035367

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Dakota

DATE <i>3/22/12</i>	SEC. <i>21</i>	TYPE <i>TY</i>	RANGE <i>32</i>	CALLED OUT	ON LOCATION <i>8:00 pm</i>	JOB START <i>9:00 pm</i>	JOB FINISH <i>9:30 pm</i>
LEASE <i>OTT</i>	WELL # <i>1-21</i>	LOCATION <i>Dakota 205 to Jayhawk 1W</i>			COUNTY <i>Logan</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)							

CONTRACTOR *HO 1*
 TYPE OF JOB *Surface*
 HOLE SIZE *12 1/4* T.D. *226'*
 CASING SIZE *8 5/8* DEPTH *226'*
 TUBING SIZE DEPTH
 DRILL PIPE *4 1/2* DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. *15'*
 PERFS.
 DISPLACEMENT *130 1/4*

OWNER *Same*
 CEMENT AMOUNT ORDERED *165 com 3" pipe 207 gal*

EQUIPMENT
 PUMP TRUCK CEMENTER *Alan*
 # *802* HELPER *Wayne*
 BULK TRUCK
 # *404* DRIVER *Ethan*
 BULK TRUCK DRIVER

COMMON <i>165</i>	@ <i>1625</i>	<i>2681 25</i>
POZMIX	@	
GEL <i>3</i>	@	<i>63 25</i>
CHLORIDE <i>6</i>	@	<i>349 22</i>
ASC	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <i>174 SK</i>	@ <i>225</i>	<i>391 50</i>
MILEAGE <i>11 @ 52/mile</i>		<i>578 20</i>
TOTAL		<i>3964 20</i>

REMARKS:
*Run log, Circulate, Mix
 Cement, Displace Cement
 Cement Disk Circulate
 Thank You
 Alan, Wayne, Ethan*

CHARGE TO: *Shakespeare*
 STREET
 CITY STATE ZIP

SERVICE
 DEPTH OF JOB *226'*
 PUMP TRUCK CHARGE *1125 00*
 EXTRA FOOTAGE @
 MILEAGE *25* @ *7 00* *175 00*
 MANIFOLD @
Vehicle 25 @ *4 00* *100 00*
 @
 TOTAL *1400 00*

PLUG & FLOAT EQUIPMENT
 @
 @
 @
 @
 @
 TOTAL _____

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

PRINTED NAME *Doug Roberts*
 SIGNATURE *Doug Roberts*
Good Job!

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



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 130835
Invoice Date: Apr 10, 2012
Page: 1



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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Ottley # 1-21	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Apr 10, 2012	5/10/12

Quantity	Item	Description	Unit Price	Amount
4.00	MAT	Gel	21.25	85.00
205.00	MAT	ASC	19.00	3,895.00
1,025.00	MAT	Gilsonite	0.89	912.25
20.00	MAT	Salt	23.95	479.00
145.00	MAT	CD-31	9.35	1,355.75
500.00	MAT	WFR-2	1.27	635.00
264.90	SER	Handling	2.10	556.29
25.00	SER	Ton Miles	27.00	675.04
1.00	SER	Production	2,405.00	2,405.00
25.00	SER	Heavy Vehicle Mileage	7.00	175.00
1.00	SER	Manifold Head Rental	200.00	200.00
1.00	SER	Rotating Head	200.00	200.00
25.00	SER	Light Vehicle Mileage	4.00	100.00
1.00	CEMENTER	Terry Heinrich		
1.00	OPER ASSIST	Tyler Flipse		
1.00	OPER ASSIST	Chris Helpingstine		

INT

RECEIVED
APR 23 2012

10502-5

Subtotal	11,673.33
Sales Tax	537.43
Total Invoice Amount	12,210.76
Payment/Credit Applied	
TOTAL	12,210.76

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

\$ 2334.67

ONLY IF PAID ON OR BEFORE
May 5, 2012

DW

ALLIED CEMENTING CO., LLC. 035949

Federal Tax ID # 20-5976904

REMIT TO: P.O. BOX 31
 RUSSELL, KANSAS 67665

SERVICE POINT:

OMKLEY

DATE	H-10-12	SEC.	21	TWP.	145	RANGE	32.0	CALLED OUT	ON LOCATION	100 START	100 FINISH
LEASER	DHLEY	WELL #	1-21	LOCATION	OMKLEY	205-200-25-20			5:00 AM	12:30 PM	
OLD OR NEW	(Circle one)								COUNTY	STATE	
									ADJAD	KS	

CONTRACTOR: A-O OIL & GAS OWNER: SAME

TYPE OF JOB: Production CEMENT
 HOLE SIZE: 7 7/8 I.D. 4480
 CASING SIZE: 5 1/2 DEPTH: 4489.08
 TUBING SIZE: _____ DEPTH: _____
 DRILL PIPE: _____ DEPTH: _____
 TOOL: PORT COLLAR DEPTH: 2172.54

PRES. MAX: _____ MINIMUM: _____
 MEAS. LINE: _____ SHOULDER: 42.25
 CEMENT LEFT IN CSG.: _____ PERCS: _____
 DISPLACEMENT: 105.93 BAGS

EQUIPMENT

PUMP/TRUCK	CEMENTER	TERRY
#	HELPER	TYLER
BULK/TRUCK	DRIVER	CHASIS
#	DRIVER	

REMARKS:
175 500 BAGS, 200K 2, MIX 30.85 LIT
101.65, MIX 175.54, ASS. 08.25, 2011-5012
200K 1 1/4" 20-31, 2011 TRUCK & TRAILER
DISPLACEMENT 105.93 BAGS WATER 17.69
APPROX 1500 GPM FORMAL FILL
APPROX 700 PSI FLOW Halted

CHARGE TO: SHOCK TREATMENT CITY: _____ STATE: _____ ZIP: _____

STREET: _____

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

PRINTED NAME: Drew Roberts
 SIGNATURE: Drew Roberts

DEPTH OF JOB	
PUMP/TRUCK CHARGE	4489.08
EXTRA FOOTAGE	
MILEAGE	25.00
MANHOLE / MINOR JOB	200.00
ADDITIONAL FEES	25.00
TOTAL	4714.08

PLUG & FLOAT EQUIPMENT	
TOTAL	30.80

SALLES TAX (if Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____
 IF PAID IN 30 DAYS



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 130821

Invoice Date: Apr 12, 2012

Page: 1



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

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Shak	Ottley # 1-21	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Apr 12, 2012	5/12/12

Quantity	Item	Description	Unit Price	Amount
211.00	MAT	Class A Common	16.25	3,428.75
114.00	MAT	Pozmix	8.50	969.00
22.00	MAT	Gel	21.25	467.50
81.00	MAT	FloSeal	2.70	218.70
8.00	MAT	Hulls	31.85	254.80
535.50	SER	Handling	2.10	1,124.55
25.00	SER	Ton Miles	52.55	1,313.65
1.00	SER	Port Collar	2,125.00	2,125.00
25.00	SER	Heavy Vehicle Mileage	7.00	175.00
25.00	SER	Light Vehicle Mileage	4.00	100.00
1.00	CEMENTER	Andrew Forslund		
1.00	EQUIP OPER	Jerry Yates		
1.00	OPER ASSIST	Brandon Wilkinson		
1.00	OPER ASSIST	Billy Turner		

INT



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

\$ 2035.39

ONLY IF PAID ON OR BEFORE
May 7, 2012

Subtotal	10,176.95
Sales Tax	389.73
Total Invoice Amount	10,566.68
Payment/Credit Applied	
TOTAL	10,566.68

DW

ALLIED CEMENTING CO., LLC. 035271

Federal Tax ID.# 20-8976804

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: OSKAY

DATE: <u>4-12-12</u>	SIC: <u>21</u>	TRF: <u>14</u>	RANGE: <u>3-2</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE OFFER # <u>1-21</u>	WELL # <u>1-21</u>	LOCATION <u>OSKAY 205 NW S 20</u>	COUNTY <u>OSKAY</u>	STATE <u>KS</u>			

CONTRACTOR: Chesapeake well service OWNER: same

TYPE OF JOB: port collar

HOLE SIZE: TD

CASING SIZE: 5 1/2" DEPTH: 635'

TUBING SIZE: 2 3/8" DEPTH: 800'

TOOL: port collar DEPTH: 2121'

DEFS. MAX: MIRUMU

MEAS. LINE: SHOT JOINT

CEMENT: POZ MIX @ 14.5% @ 12.25' @ 3491.25'

PERFS: 2-2 @ 360' @ 2135-467.50'

DISPLACEMENT: 8.76

EQUIPMENT: 60-500L 874 @ 2.20 @ 2187.00'

PUMP TRUCK: CEMENTER Andrew

BULK TRUCK: HELPER JEFF

BULK TRUCK: DRIVER Brandon

BULK TRUCK: DRIVER Billy

AMOUNT ORDERED: 425 sacks 435'

800' @ 14.5% Poz Mix Cement

425 @ 14.5% Poz Mix Cement

COMMON: 211.56% @ 12.25' @ 3491.25'

POZ MIX: 114.56% @ 8.50' @ 969.00'

GEL: 2-2 @ 360' @ 2135-467.50'

CHLORIDE: ASC

REMARKS: Pressure too high, milk got stuck down in the tubing and displaced 1000 lbs of pressure. Close port collar pressure to 600 psi. Run 3 tanks of cement. Clean. Cement did give life to seal face.

CHARGE TO: Shakespeare

DEPTH OF JOB: 2121'

PUMP TRUCK CHARGE: 2635.00

EXTRA FOOTAGE: 2635.00

MILEAGE: 252 Miles @ 2.00 @ 504.00

MANIPULATED VEHICLE: 1000.00 @ 1.00 @ 1000.00

TOTAL: 7116.00

PLUG & FLOAT EQUIPMENT

TOTAL


SALES TAX (if any)

TOTAL CHARGES

DISCOUNT

IF PAID IN 30 DAYS

PRINTED NAME: John Davison

SIGNATURE: 

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cement 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.

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY: SHAKESPARE OIL CO.
LEASE: Outlot-21
FIELD: Wildcat
LOCATION: 1307 NW, 1050' FWL
SOC: 21 T1MSP 14S RGE 32W
COUNTY: Logan STATE Kansas
CONTRACTOR: HD Drilling Rig #2
SPUD: 3-12-12 **COMP:** 4-10-12
RTD: 4490' **LTD:** 4486'
MUD UP: 3500' **TYPE MUD:** Chemical
SAMPLES SAVED FROM: 3600' to RTD
DRILLING TIME KEPT FROM: 3600' to RTD
SAMPLES EXAMINED FROM: 3650' to RTD
GEOLOGICAL SUPERVISION FROM: 3700' to RTD
GEOLOGIST ON WELL: Tim Priest

ELEVATIONS
KG 2763'
DF _____
GL 2753'

CASINGS
CONDUCTION: N/A
SURFACE: 8-5/8" @ 223'
PRODUCTION: 5-1/2" @ 4490'

Measurements Are All From KB

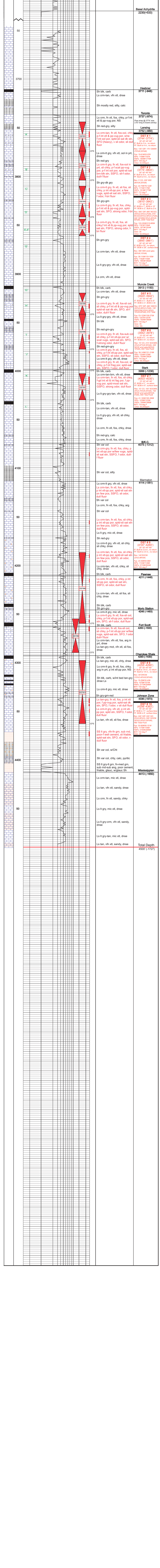
FORMATION TOPS

FORMATION	ELECTRIC LOG	SAMPLE
Anhydrite	2208 (-4555)	2207 (+556)
Heebner Shale	3708 (-945)	3711 (-948)
Amisburg	3753 (-990)	3752 (-989)
BK.C	3996 (-1233)	3999 (-1236)
Fort Scott	4073 (-1310)	4075 (-1312)
Cherokee Shale	4266 (-1503)	4263 (-1500)
Mississippian	4408 (-1646)	4413 (-1650)

REMARKS Due to the results of drill stem tests, it was decided to set production casing to further test the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-109-21043-00-00





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 44524

DST#: 1

ATTN: Tim Priest

Test Start: 2012.03.31 @ 15:56:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:57:45

Time Test Ended: 23:27:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Waler

Unit No: 53

Interval: 3744.00 ft (KB) To 3774.00 ft (KB) (TVD)

Reference Elevations: 2763.00 ft (KB)

Total Depth: 3774.00 ft (KB) (TVD)

2753.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8678

Inside

Press @ Run Depth: 96.66 psig @ 3745.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.31

End Date:

2012.03.31

Last Calib.:

2012.03.31

Start Time: 15:56:05

End Time:

23:27:29

Time On Btm:

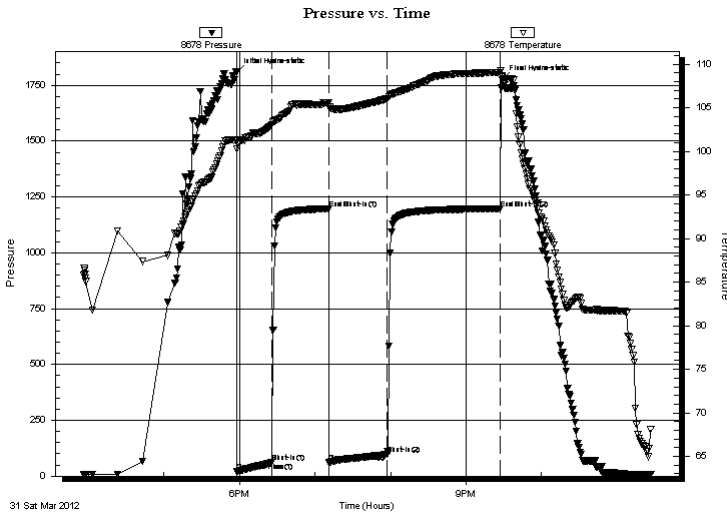
2012.03.31 @ 17:57:30

Time Off Btm:

2012.03.31 @ 21:28:30

TEST COMMENT: IF: 3" blow.
IS: No return.
FF: 4" blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1808.26	101.29	Initial Hydro-static
1	19.38	100.24	Open To Flow (1)
29	60.90	103.07	Shut-In(1)
74	1197.52	105.57	End Shut-In(1)
74	63.43	105.17	Open To Flow (2)
120	96.66	106.06	Shut-In(2)
210	1197.40	109.08	End Shut-In(2)
211	1776.20	108.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
170.00	mcw 30m 70w (oil spots)	1.07
0.00	130' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 44524

DST#: 1

ATTN: Tim Priest

Test Start: 2012.03.31 @ 15:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

42000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
170.00	mcw 30m 70w (oil spots)	1.072
0.00	130' GIP	0.000

Total Length: 170.00 ft Total Volume: 1.072 bbl

Num Fluid Samples: 0

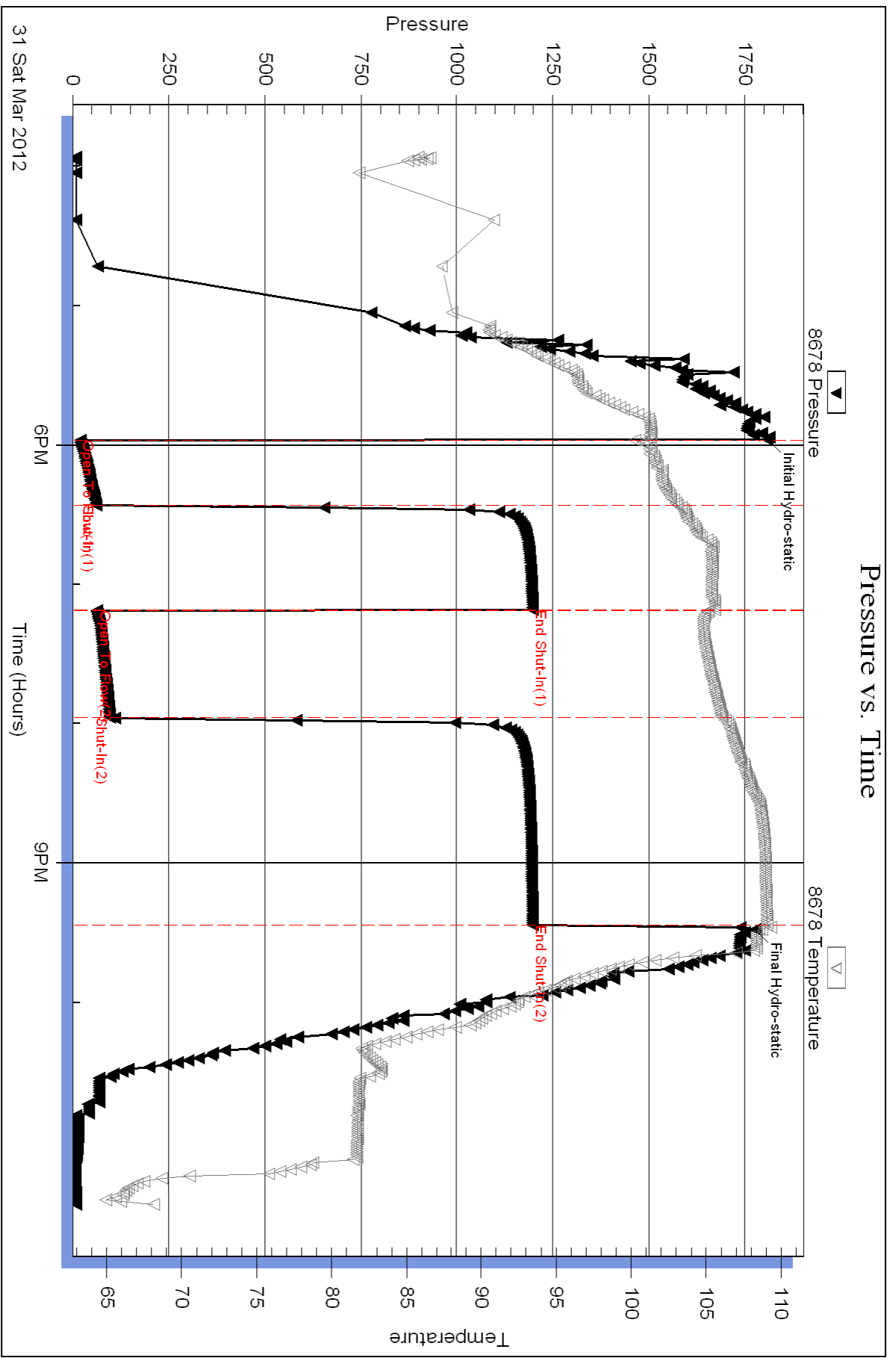
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .190 @ 64f = 42,000ppm





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 44525

DST#: 2

ATTN: Tim Priest

Test Start: 2012.04.01 @ 08:56:00

GENERAL INFORMATION:

Formation: **LKC "B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:33:00

Time Test Ended: 14:59:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Waler

Unit No: 53

Interval: 3774.00 ft (KB) To 3804.00 ft (KB) (TVD)

Reference Elevations: 2763.00 ft (KB)

Total Depth: 3804.00 ft (KB) (TVD)

2753.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8678

Inside

Press @ Run Depth: 122.40 psig @ 3775.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.01

End Date:

2012.04.01

Last Calib.:

2012.04.01

Start Time: 08:56:05

End Time:

14:59:14

Time On Btm:

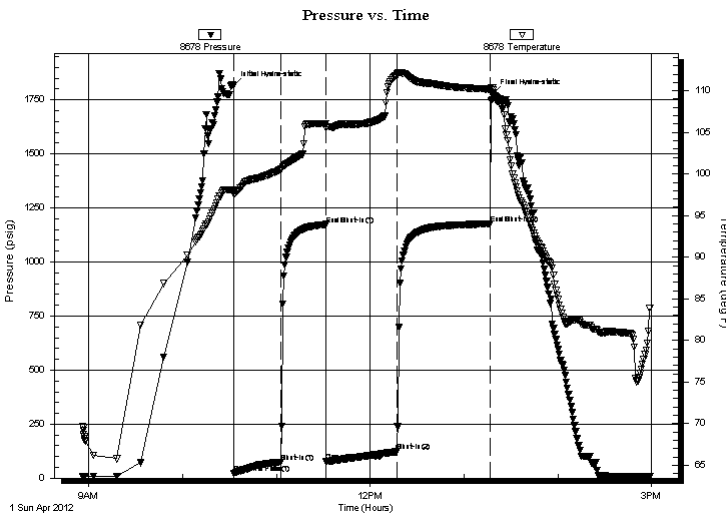
2012.04.01 @ 10:32:30

Time Off Btm:

2012.04.01 @ 13:18:45

TEST COMMENT: IF: 6" blow.
IS: No return.
FF: 9" blow.
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.53	98.00	Initial Hydro-static
1	22.28	97.54	Open To Flow (1)
30	74.68	100.50	Shut-In(1)
59	1173.59	106.05	End Shut-In(1)
60	78.15	105.53	Open To Flow (2)
105	122.40	111.90	Shut-In(2)
165	1176.49	110.21	End Shut-In(2)
167	1778.46	110.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	mcw 30m 70w (oil spots)	1.72
3.00	oil 100o	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 44525

DST#: 2

ATTN: Tim Priest

Test Start: 2012.04.01 @ 08:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

56000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 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 bbl
220.00	mcw 30m 70w (oil spots)	1.721
3.00	oil 100o	0.030

Total Length: 223.00 ft Total Volume: 1.751 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

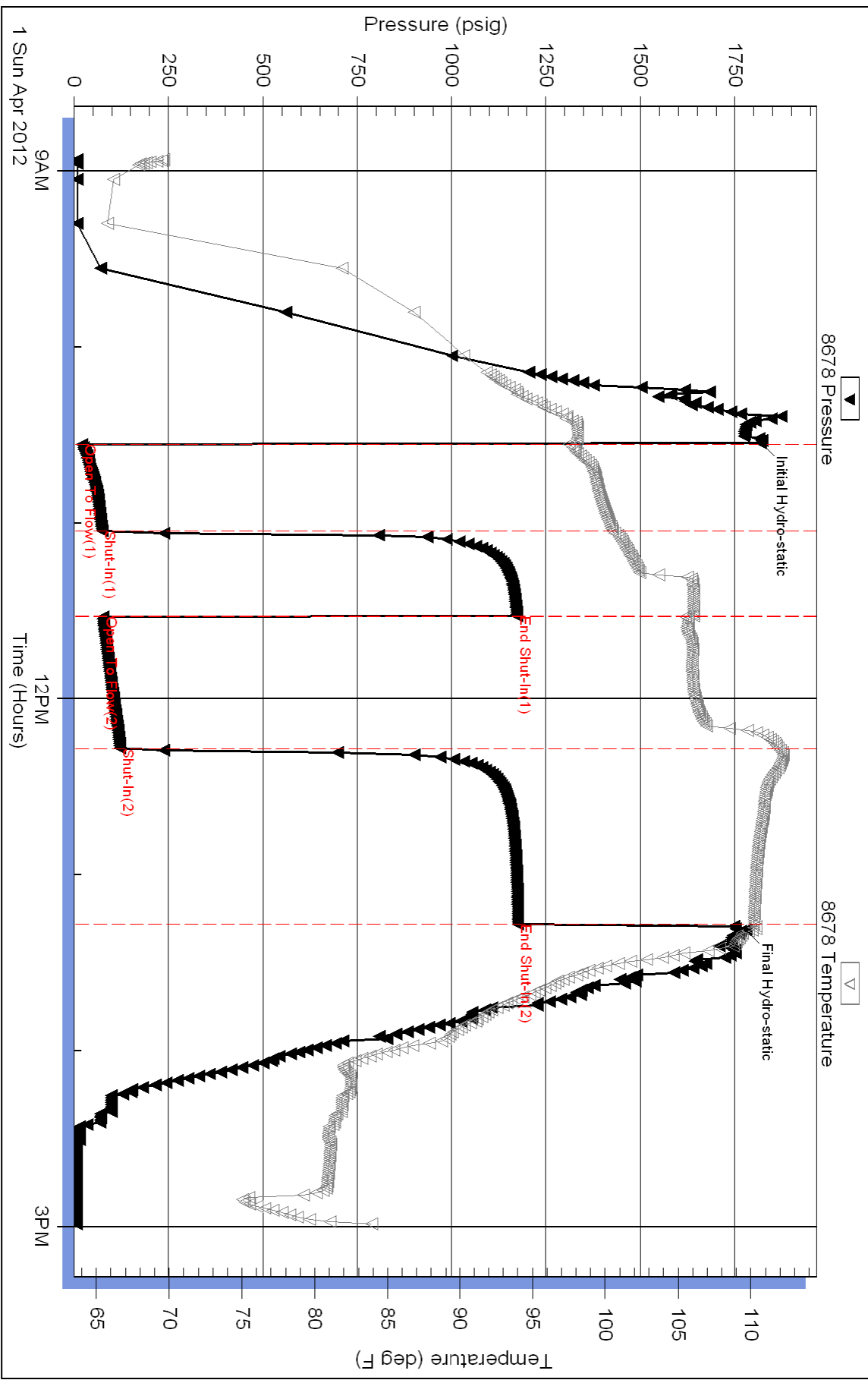
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .120 @ 77F = 56,000ppm

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46676

DST#: 3

ATTN: Tim Priest

Test Start: 2012.04.02 @ 01:05:00

GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:07:30

Time Test Ended: 10:40:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Waler

Unit No: 53

Interval: 3810.00 ft (KB) To 3842.00 ft (KB) (TVD)

Reference Elevations: 2763.00 ft (KB)

Total Depth: 3842.00 ft (KB) (TVD)

2753.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8678

Inside

Press @ Run Depth: 664.54 psig @ 3811.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.02

End Date:

2012.04.02

Last Calib.: 2012.04.02

Start Time: 01:05:05

End Time:

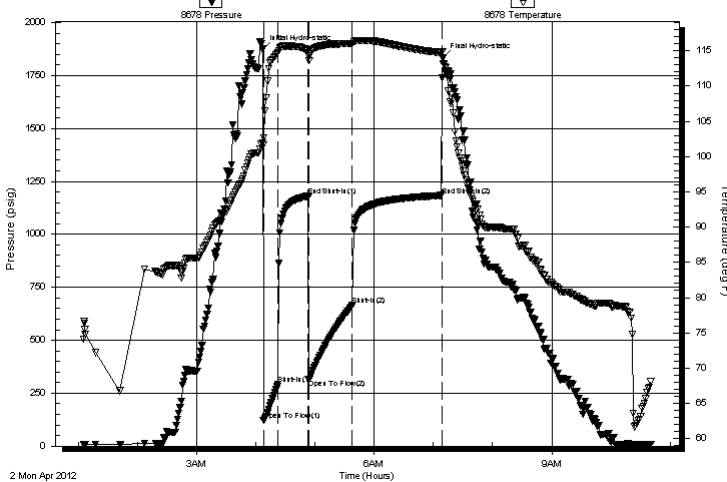
10:40:45

Time On Btm: 2012.04.02 @ 04:07:00

Time Off Btm: 2012.04.02 @ 07:09:45

TEST COMMENT: IF: BOB @ 1 min.
IS: BOB @ 15 min.
FF: BOB @ 2 min.
FS: 2" return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.39	101.97	Initial Hydro-static
1	121.66	101.63	Open To Flow (1)
16	291.95	114.71	Shut-In(1)
46	1181.04	115.04	End Shut-In(1)
47	314.60	114.25	Open To Flow (2)
91	664.54	116.02	Shut-In(2)
182	1183.73	114.72	End Shut-In(2)
183	1834.08	113.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	ow cm 15o 40w 45m	1.77
915.00	smcgo 2m 40g 58o	9.10
885.00	smcgo 2m 45g 53o	8.80
0.00	560' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46676

DST#: 3

ATTN: Tim Priest

Test Start: 2012.04.02 @ 01:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

52000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 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
240.00	ow cm 15o 40w 45m	1.769
915.00	smcgo 2m 40g 58o	9.102
885.00	smcgo 2m 45g 53o	8.803
0.00	560' GIP	0.000

Total Length: 2040.00 ft Total Volume: 19.674 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

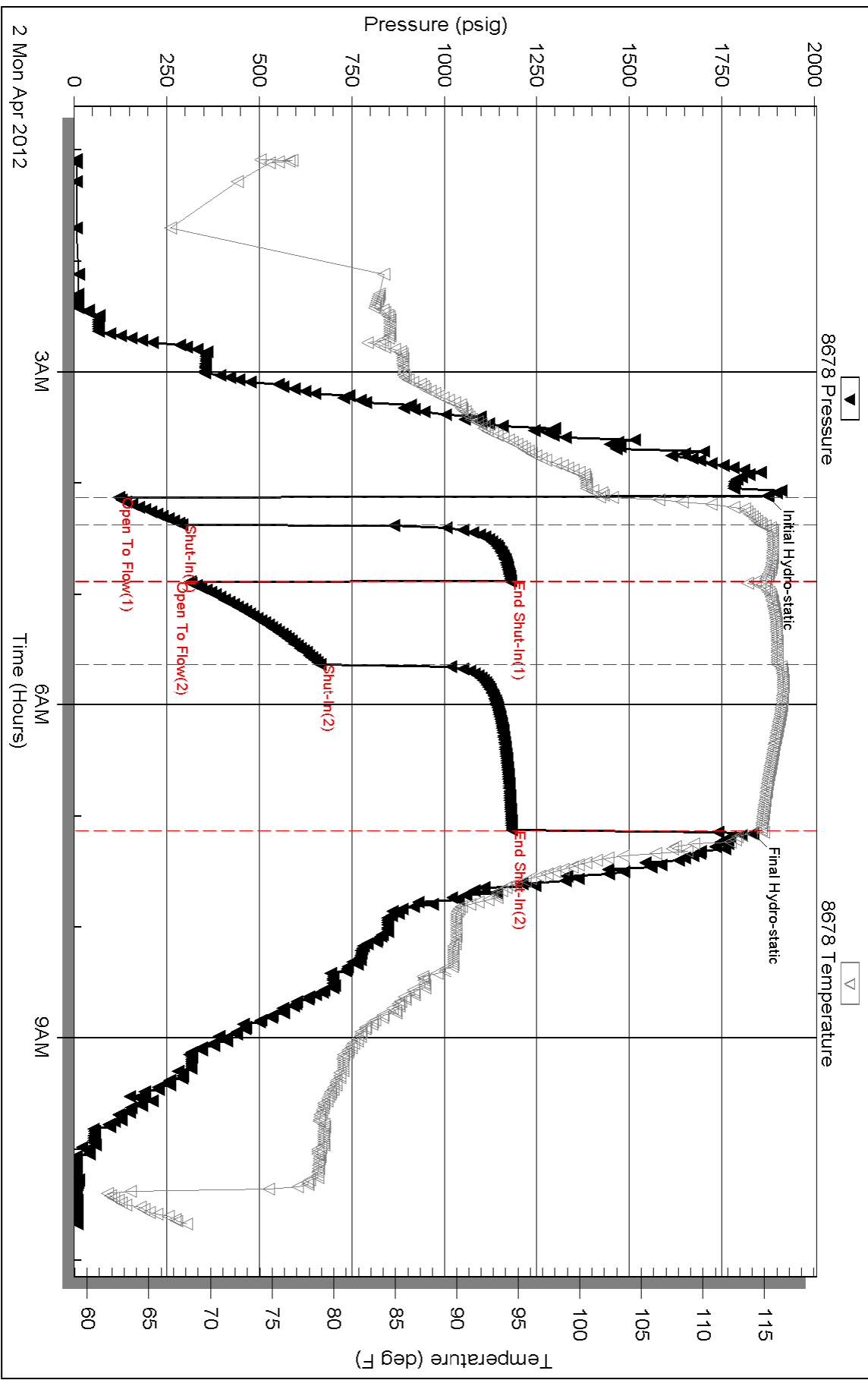
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .165 @ 60F = 52,000 ppm

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46677

DST#: 4

ATTN: Tim Priest

Test Start: 2012.04.02 @ 17:56:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:48:00

Time Test Ended: 04:55:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Waler

Unit No: 53

Interval: 3845.00 ft (KB) To 3861.00 ft (KB) (TVD)

Reference Elevations: 2763.00 ft (KB)

Total Depth: 3861.00 ft (KB) (TVD)

2753.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8678

Inside

Press @ Run Depth: 195.26 psig @ 3846.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.02

End Date:

2012.04.03

Last Calib.:

2012.04.03

Start Time:

17:56:05

End Time:

04:55:00

Time On Btm:

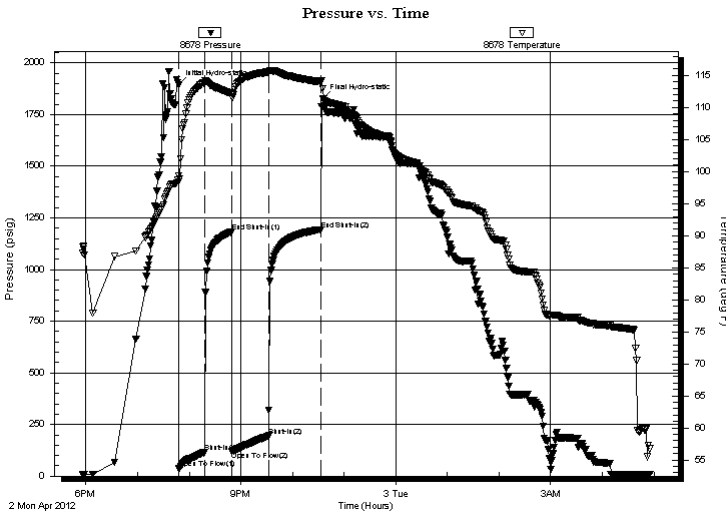
2012.04.02 @ 19:47:45

Time Off Btm:

2012.04.02 @ 22:35:00

TEST COMMENT: IF: BOB @ 28 min.
IS: No return.
FF: BOB @ 28 min.
FS: Surface blow @ 10 min, Died @ 30 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1893.24	99.34	Initial Hydro-static
1	36.45	98.44	Open To Flow (1)
30	115.82	113.87	Shut-In(1)
62	1182.30	112.20	End Shut-In(1)
62	119.10	111.67	Open To Flow (2)
105	195.26	115.51	Shut-In(2)
165	1193.63	114.00	End Shut-In(2)
168	1828.52	112.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
390.00	mcw 10m 90w (oil spots)	3.26

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46677

DST#: 4

ATTN: Tim Priest

Test Start: 2012.04.02 @ 17:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

82000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
390.00	mcw 10m 90w (oil spots)	3.261

Total Length: 390.00 ft Total Volume: 3.261 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .130 @ 51F = 82000ppm

Serial #: 8678

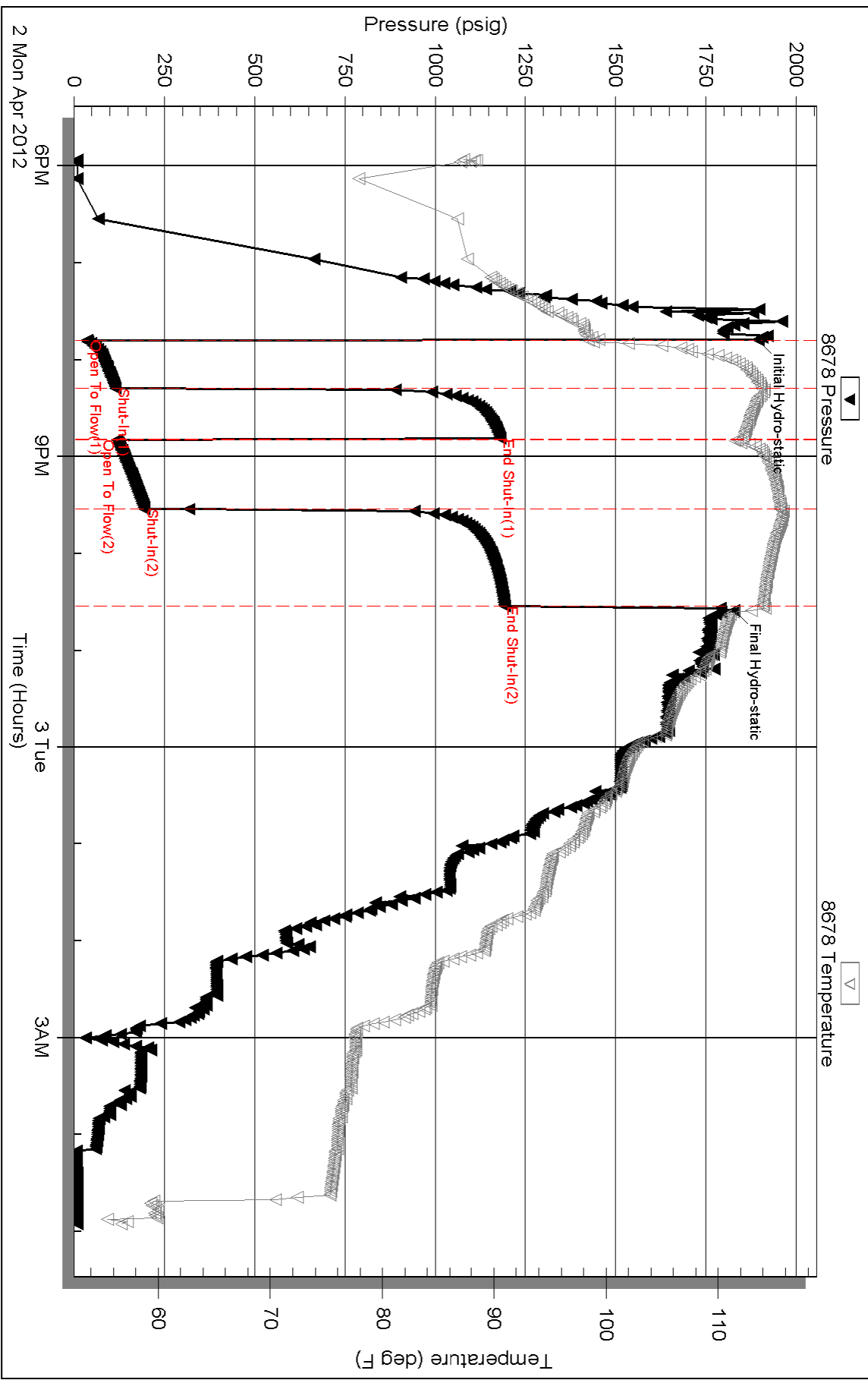
Inside

Shakespeare Oil Co, Inc

Oilley 1-21

DST Test Number: 4

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46678

DST#: 5

ATTN: Tim Priest

Test Start: 2012.04.03 @ 19:20:00

GENERAL INFORMATION:

Formation: **LKC "H"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:37:45
 Time Test Ended: 04:40:00
 Interval: **3920.00 ft (KB) To 3942.00 ft (KB) (TVD)**
 Total Depth: 3942.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Waler
 Unit No: 53
 Reference Elevations: 2763.00 ft (KB)
 2753.00 ft (CF)
 KB to GR/CF: 10.00 ft

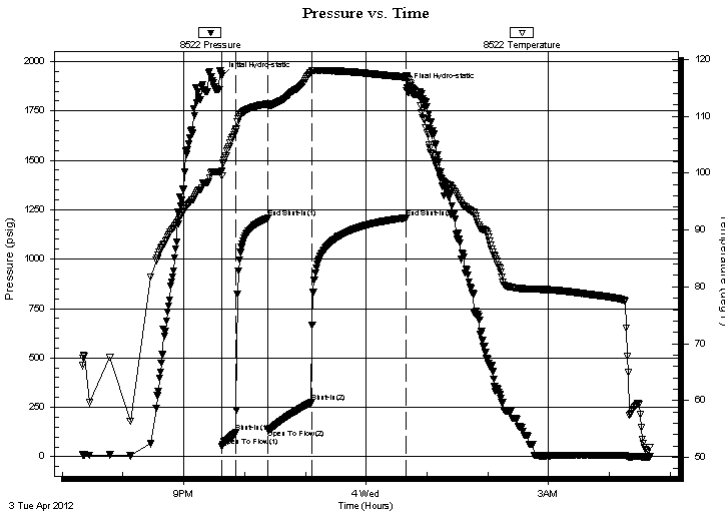
Serial #: 8522

Inside

Press @ Run Depth: 274.59 psig @ 3921.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.03 End Date: 2012.04.04 Last Calib.: 2012.04.04
 Start Time: 19:20:05 End Time: 04:40:00 Time On Btm: 2012.04.03 @ 21:37:30
 Time Off Btm: 2012.04.04 @ 00:40:00

TEST COMMENT: IF: BOB @ 4 min.
 IS: 9" return.
 FF: BOB @ 3 min.
 FS: BOB @ 30 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.84	100.30	Initial Hydro-static
1	52.78	99.50	Open To Flow (1)
14	121.83	107.54	Shut-In(1)
46	1207.28	112.17	End Shut-In(1)
46	138.25	111.83	Open To Flow (2)
89	274.59	117.77	Shut-In(2)
182	1206.86	116.83	End Shut-In(2)
183	1868.78	116.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	gw ocm 10g 15w 35o 40m	0.67
480.00	gmco 30g 2m 68o	4.77
0.00	870' 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

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46678

DST#: 5

ATTN: Tim Priest

Test Start: 2012.04.03 @ 19:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	gw ocm 10g 15w 35o 40m	0.675
480.00	gmco 30g 2m 68o	4.775
0.00	870' GIP	0.000

Total Length: 610.00 ft Total Volume: 5.450 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

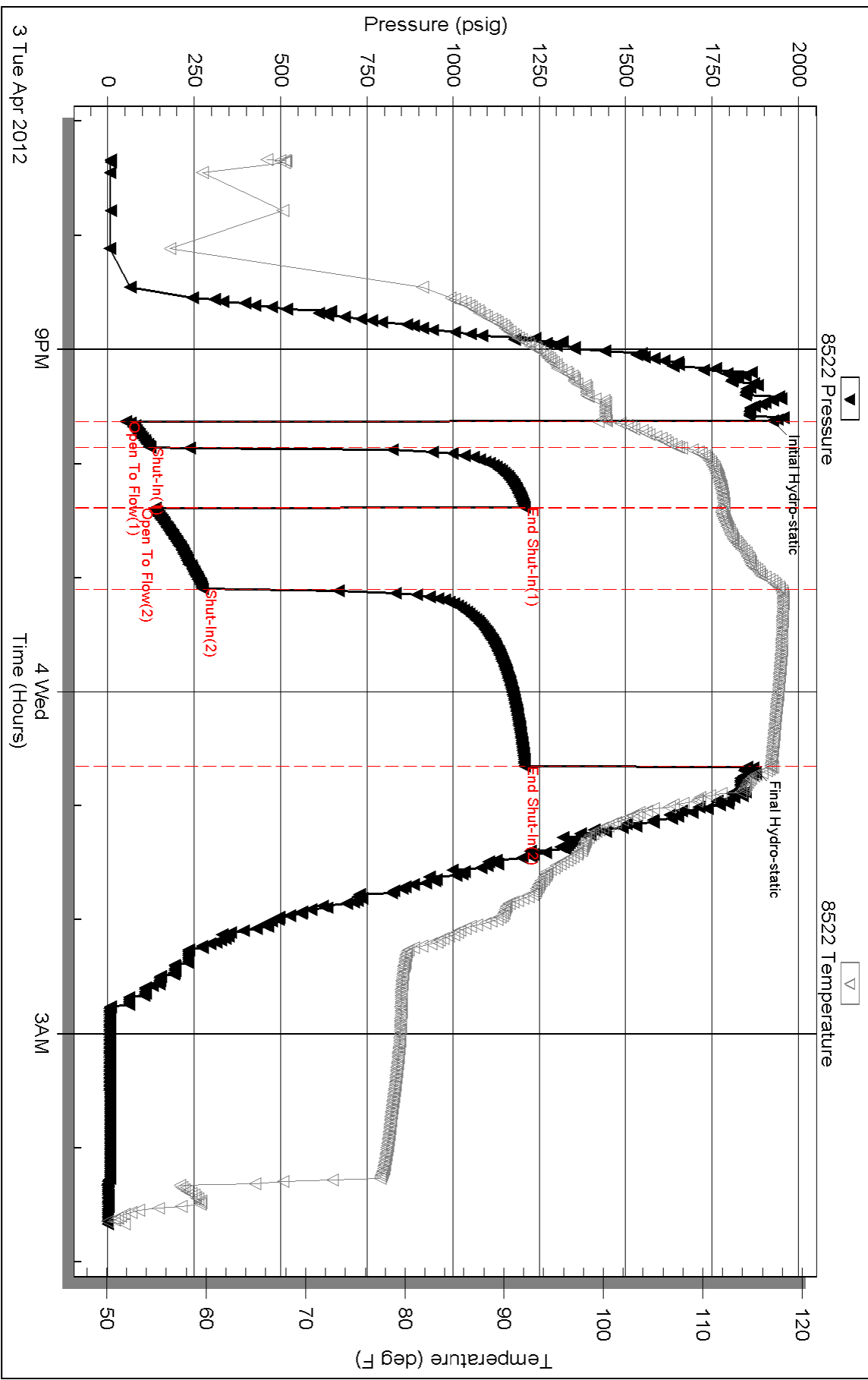
Inside

Shakespeare Oil Co, Inc

Ottley 1-21

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46678

Printed: 2012.04.04 @ 08:05:08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46679

DST#: 6

ATTN: Tim Priest

Test Start: 2012.04.04 @ 13:50:00

GENERAL INFORMATION:

Formation: **LKC " I "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:48:30
 Time Test Ended: 20:52:45
 Interval: **3942.00 ft (KB) To 3978.00 ft (KB) (TVD)**
 Total Depth: 3942.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Waler
 Unit No: 53
 Reference Elevations: 2763.00 ft (KB)
 2753.00 ft (CF)
 KB to GR/CF: 10.00 ft

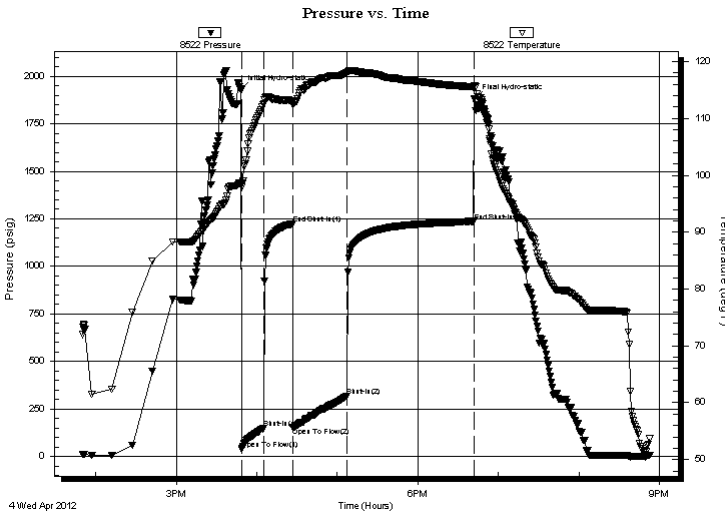
Serial #: 8522

Inside

Press @ Run Depth: 318.48 psig @ 3943.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.04.04 End Date: 2012.04.04 Last Calib.: 2012.04.04
 Start Time: 13:50:05 End Time: 20:52:44 Time On Btm: 2012.04.04 @ 15:48:15
 Time Off Btm: 2012.04.04 @ 18:42:15

TEST COMMENT: IF: BOB @ 6 min.
 IS: No return.
 FF: BOB @ 9 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1927.71	98.61	Initial Hydro-static
1	35.68	97.87	Open To Flow (1)
17	149.01	112.60	Shut-In(1)
39	1224.41	112.91	End Shut-In(1)
39	151.45	112.48	Open To Flow (2)
79	318.48	117.99	Shut-In(2)
174	1236.10	115.55	End Shut-In(2)
174	1882.42	115.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
430.00	mcw 10m 90w (oil spots)	3.66
215.00	omcw 3o 30m 67w	2.14
10.00	oil 100o	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46679

DST#: 6

ATTN: Tim Priest

Test Start: 2012.04.04 @ 13:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

68000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
430.00	mcw 10m 90w (oil spots)	3.659
215.00	omcw 3o 30m 67w	2.139
10.00	oil 100o	0.099

Total Length: 655.00 ft Total Volume: 5.897 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .150 @ 55F =68000

Serial #: 8522

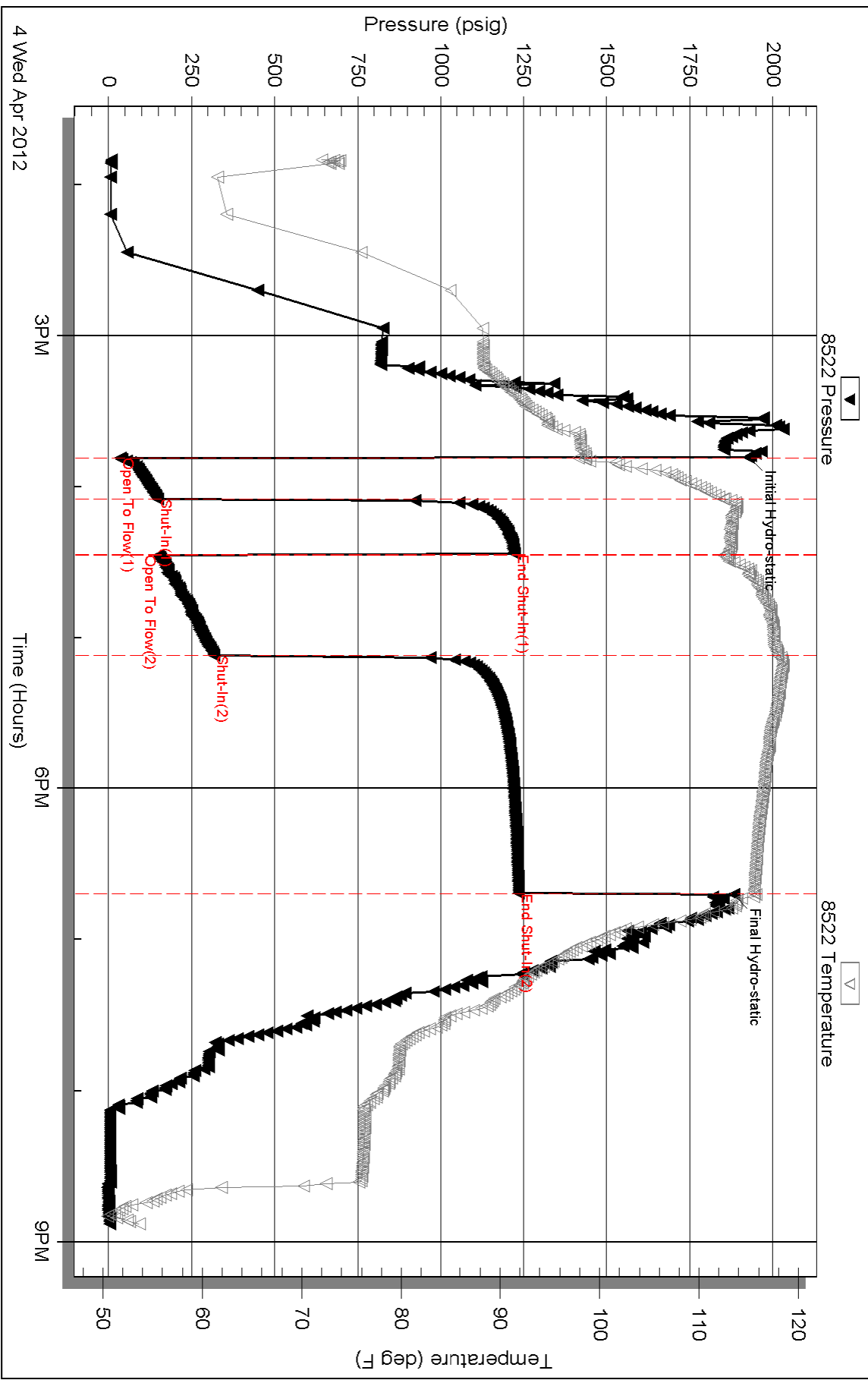
Inside

Shakespeare Oil Co, Inc

Ottley 1-21

DST Test Number: 6

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46680

DST#: 7

ATTN: Tim Priest

Test Start: 2012.04.05 @ 08:41:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:46:00

Time Test Ended: 15:27:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Waler

Unit No: 53

Interval: 4003.00 ft (KB) To 4030.00 ft (KB) (TVD)

Total Depth: 4030.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2763.00 ft (KB)

2753.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press @ Run Depth: 366.21 psig @ 4004.00 ft (KB)

Start Date: 2012.04.05

End Date:

2012.04.05

Start Time: 08:41:05

End Time:

15:27:29

Capacity: 8000.00 psig

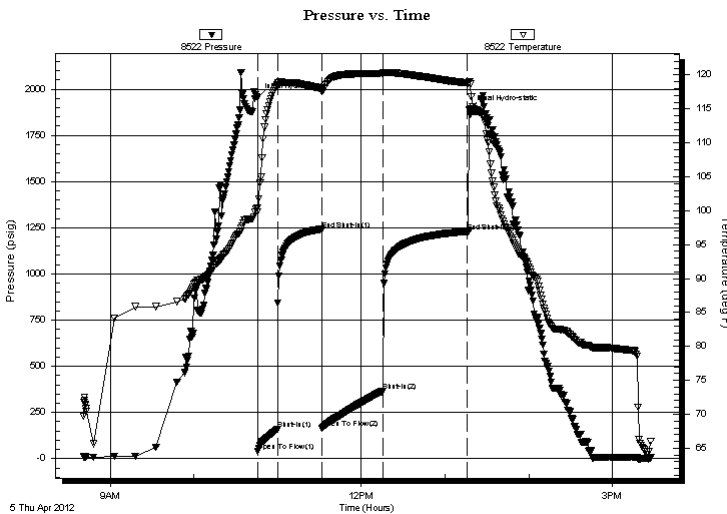
Last Calib.: 2012.04.05

Time On Btm: 2012.04.05 @ 10:45:45

Time Off Btm: 2012.04.05 @ 13:17:30

TEST COMMENT: IF: BOB @ 5 min.
IS: No return.
FF: BOB @ 9 min.
FS: Surface blow.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1955.70	100.43	Initial Hydro-static
1	40.79	99.79	Open To Flow (1)
15	160.08	118.53	Shut-In(1)
46	1239.38	117.98	End Shut-In(1)
46	164.62	117.59	Open To Flow (2)
90	366.21	120.17	Shut-In(2)
151	1230.06	118.86	End Shut-In(2)
152	1889.47	119.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
730.00	mcw 5m 95w (oil spots)	6.64
100.00	omcw 5o 25m 70w	0.99
10.00	oil 100o	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

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46680

DST#: 7

ATTN: Tim Priest

Test Start: 2012.04.05 @ 08:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

93000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
730.00	mcw 5m 95w (oil spots)	6.643
100.00	omcw 5o 25m 70w	0.995
10.00	oil 100o	0.099

Total Length: 840.00 ft Total Volume: 7.737 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .105 @ 63 = 93,000 ppm

Serial #: 8522

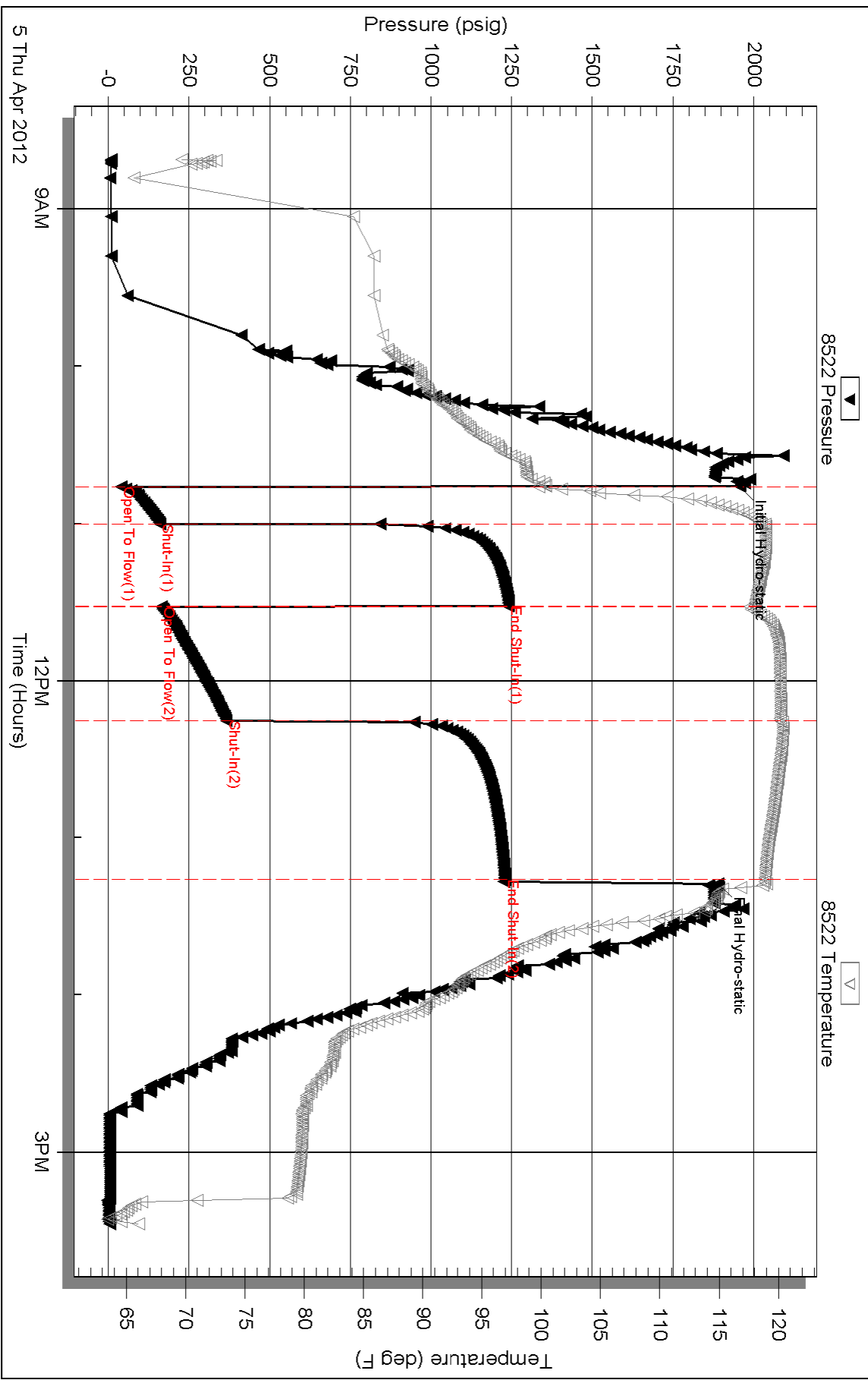
Inside

Shakespeare Oil Co, Inc

Ottley 1-21

DST Test Number: 7

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46681

DST#: 8

ATTN: Tim Priest

Test Start: 2012.04.06 @ 18:36:00

GENERAL INFORMATION:

Formation: **Pawnee - Myric Stati**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:14:00

Time Test Ended: 01:32:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Waler

Unit No: 53

Interval: 4187.00 ft (KB) To 4260.00 ft (KB) (TVD)

Reference Elevations: 2763.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

2753.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Inside

Press @ Run Depth: 85.74 psig @ 4188.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.06

End Date: 2012.04.07

Last Calib.: 2012.04.07

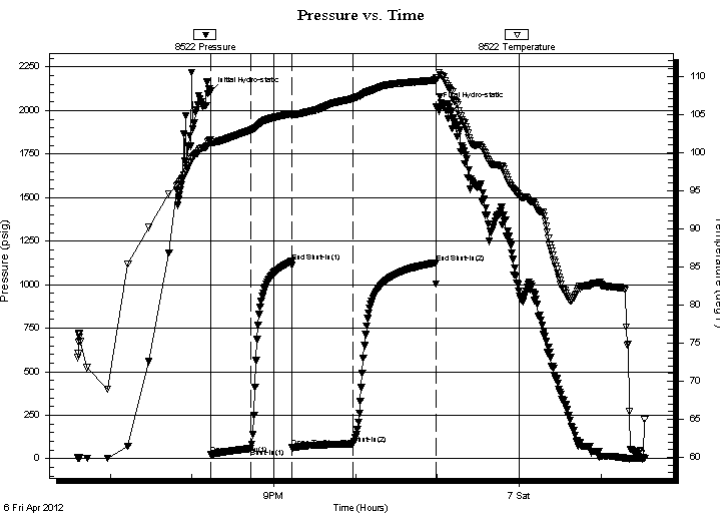
Start Time: 18:36:05

End Time: 01:32:29

Time On Btm: 2012.04.06 @ 20:13:45

Time Off Btm: 2012.04.06 @ 22:59:15

TEST COMMENT: IF: 3 1/2" blow.
IS: No return.
FF: 2 1/2" blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2110.25	101.67	Initial Hydro-static
1	24.48	101.11	Open To Flow (1)
29	58.82	102.90	Shut-In(1)
60	1133.07	105.12	End Shut-In(1)
60	63.65	104.87	Open To Flow (2)
105	85.74	107.08	Shut-In(2)
165	1126.34	109.49	End Shut-In(2)
166	2024.35	109.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
140.00	socm 2o 98m	0.77

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46681

DST#: 8

ATTN: Tim Priest

Test Start: 2012.04.06 @ 18:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
140.00	socm 2o 98m	0.774

Total Length: 140.00 ft Total Volume: 0.774 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8522

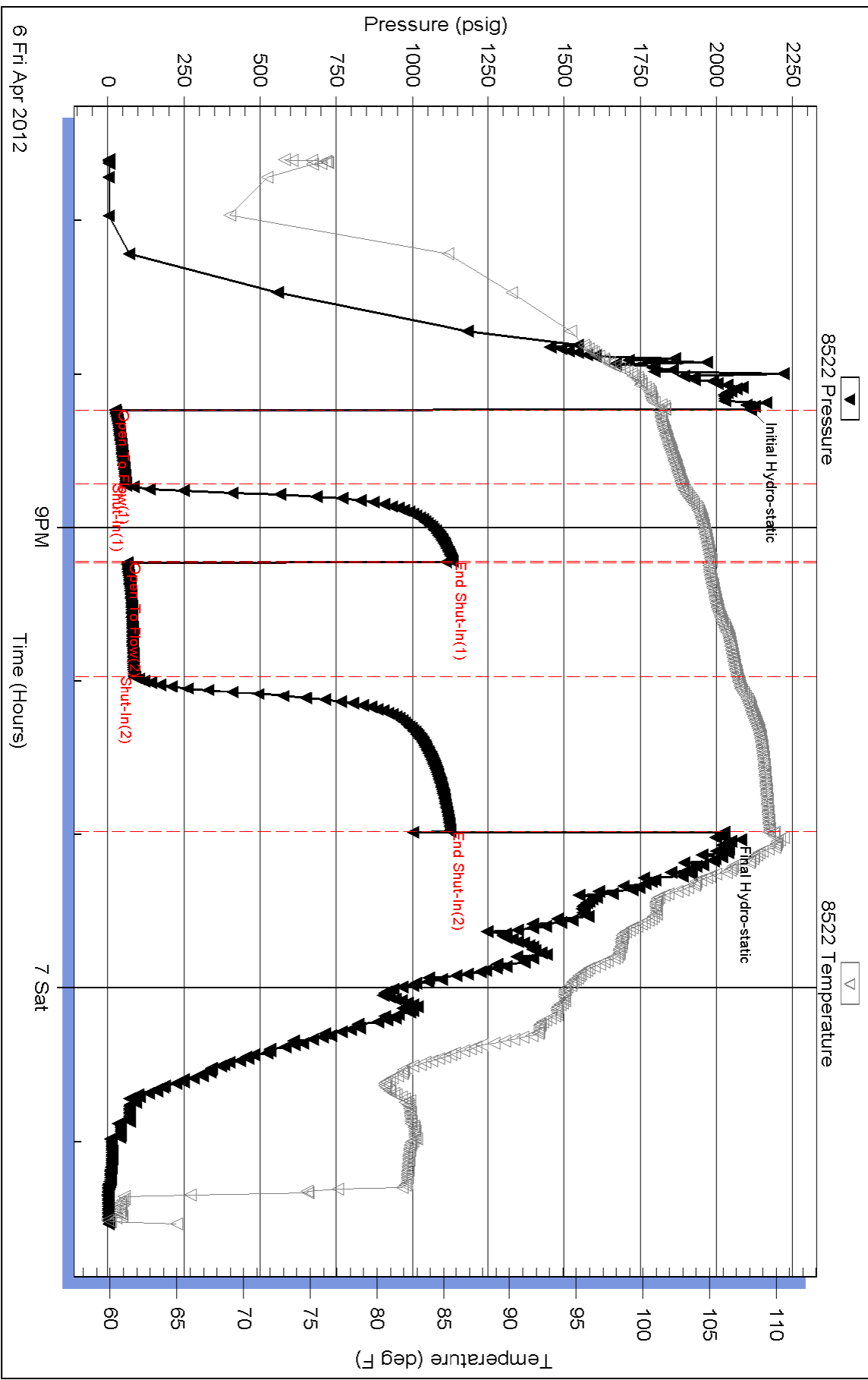
Inside

Shakespeare Oil Co, Inc

Oilley 1-21

DST Test Number: 8

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46681

Printed: 2012.04.07 @ 11:15:53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46683

DST#: 10

ATTN: Tim Priest

Test Start: 2012.04.08 @ 13:20:05

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 15:05:45

Time Test Ended: 20:32:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 53

Interval: 4298.00 ft (KB) To 4363.00 ft (KB) (TVD)

Reference Elevations: 2763.00 ft (KB)

Total Depth: 4363.00 ft (KB) (TVD)

2753.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8678 Inside

Press @ Run Depth: 151.44 psig @ 4299.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.08

End Date:

2012.04.08

Last Calib.:

2012.04.08

Start Time: 13:20:05

End Time:

20:32:29

Time On Btm:

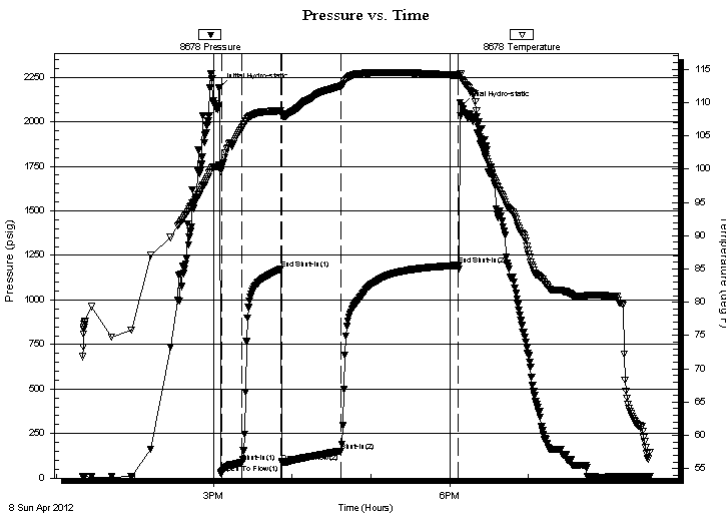
2012.04.08 @ 15:04:15

Time Off Btm:

2012.04.08 @ 18:09:14

TEST COMMENT: B,O,B 11 min
1/4 surface blow
B,O,B 8 min
1/4 surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.09	100.60	Initial Hydro-static
2	29.82	100.25	Open To Flow (1)
18	89.71	106.26	Shut-In(1)
47	1174.92	108.74	End Shut-In(1)
48	89.53	108.13	Open To Flow (2)
93	151.44	112.49	Shut-In(2)
183	1194.72	114.09	End Shut-In(2)
185	2089.38	113.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	240 ft gip	0.00
240.00	OGM 20%O 30%G 50%M	1.77
220.00	GO 5%G 95%O	2.19

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespear Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46683

DST#: 10

ATTN: Tim Priest

Test Start: 2012.04.08 @ 13:20:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	240 ft gip	0.000
240.00	OGM 20%O 30%G 50%M	1.769
220.00	GO 5%G 95%O	2.188

Total Length: 460.00 ft Total Volume: 3.957 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

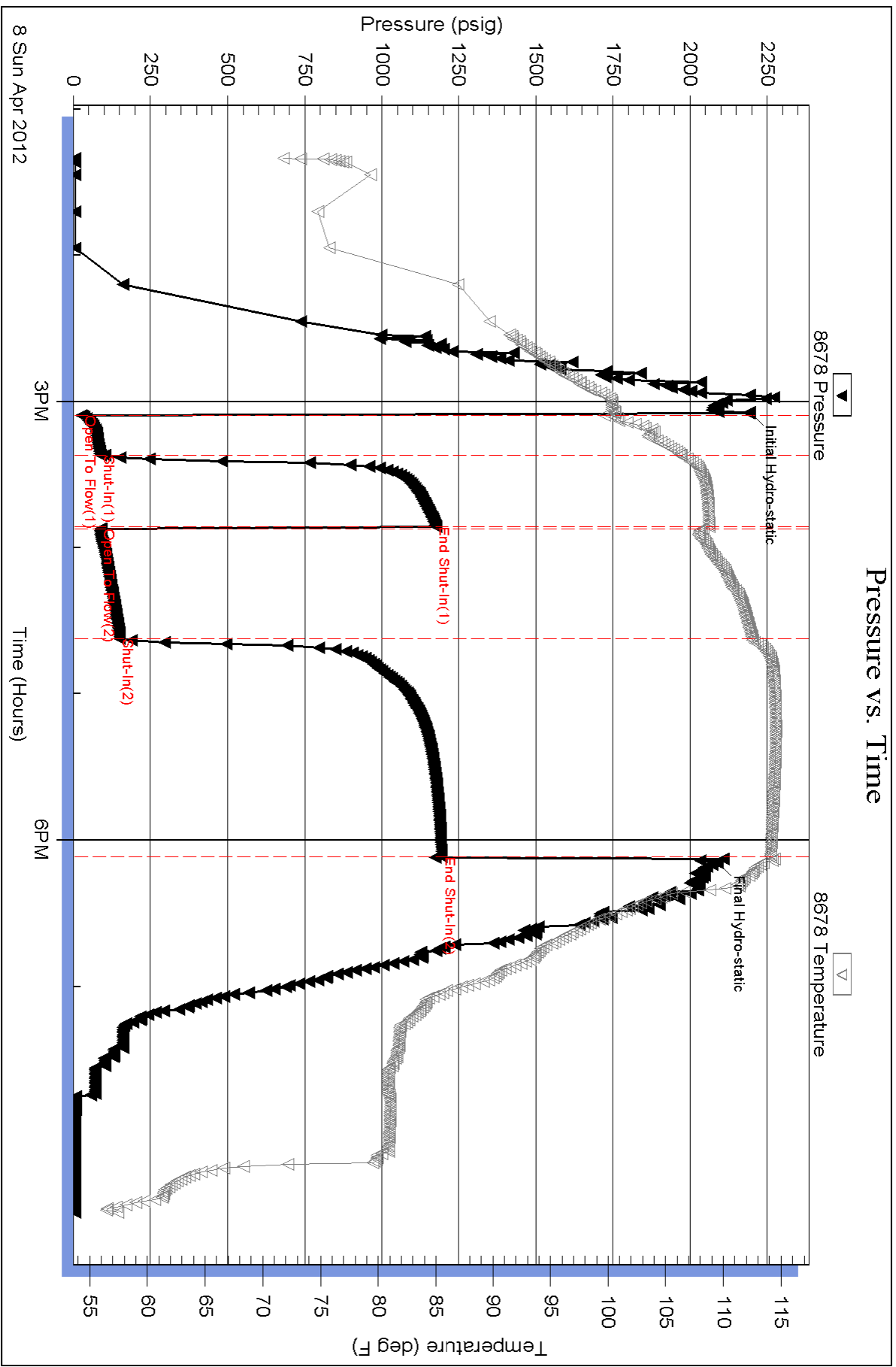
Serial #: 8678

Inside

Shakespeare Oil Co, Inc

Ottley 1-21

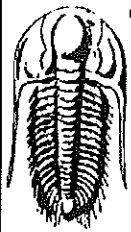
DST Test Number: 10



Triobite Testing, Inc

Ref. No: 46683

Printed: 2012.04.08 @ 22:42:52



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co, Inc

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46682

DST#: 9

ATTN: Tim Priest

Test Start: 2012.04.08 @ 17:45:05

GENERAL INFORMATION:

Formation: FT Scott

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 19:27:30

Time Test Ended: 00:47:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Cole Archibald

Unit No: 53

Interval: 4255.00 ft (KB) To 4290.00 ft (KB) (TVD)

Reference Elevations: 2763.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

2753.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8522

Inside

Press@RunDepth: 42.47 psig @ 4256.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.04.08

End Date: 2012.04.09

Last Calib.: 2012.04.08

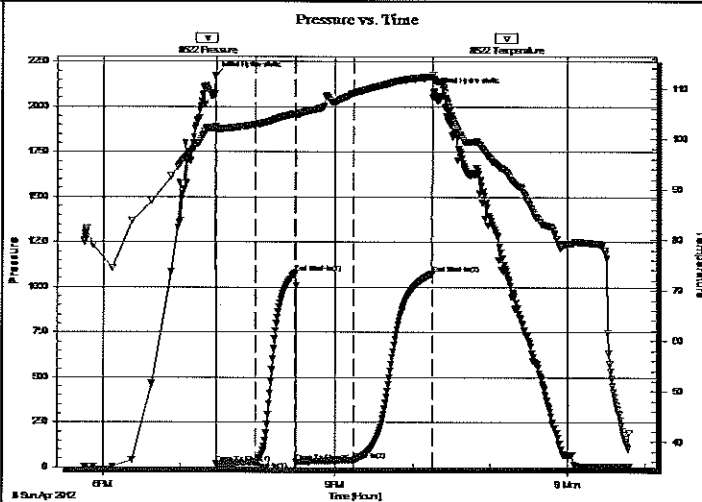
Start Time: 17:45:05

End Time: 00:47:44

Time On Btm: 2012.04.08 @ 19:26:45

Time Off Btm: 2012.04.08 @ 22:16:29

TEST COMMENT: 1 1/4 inch blow
No return
1 1/4 inch blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2172.19	102.49	Initial Hydro-static
1	18.84	101.76	Open To Flow (1)
32	28.73	102.83	Shut-In(1)
62	1077.50	105.02	End Shut-In(1)
63	32.25	104.74	Open To Flow (2)
108	42.47	109.05	Shut-In(2)
169	1074.18	112.29	End Shut-In(2)
170	2086.47	111.65	Final Hydro-static

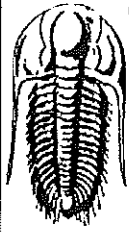
Recovery

Length (ft)	Description	Volume (bbl)
30.00	ow cm 10 % O 40 % W 50 % M	0.15
0.00	RW.239 @ 56 F* =40,000 chl	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

21 14s 32w Logan, Ks

202 W. Main St.
Salem, IL 62881

Ottley 1-21

Job Ticket: 46682

DST#: 9

ATTN: Tim Priest

Test Start: 2012.04.08 @ 17:45:05

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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 cm ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ow cm 10 % O 40 % W 50 % M	0.148
0.00	RW.239 @ 56 F* =40,000 chl	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

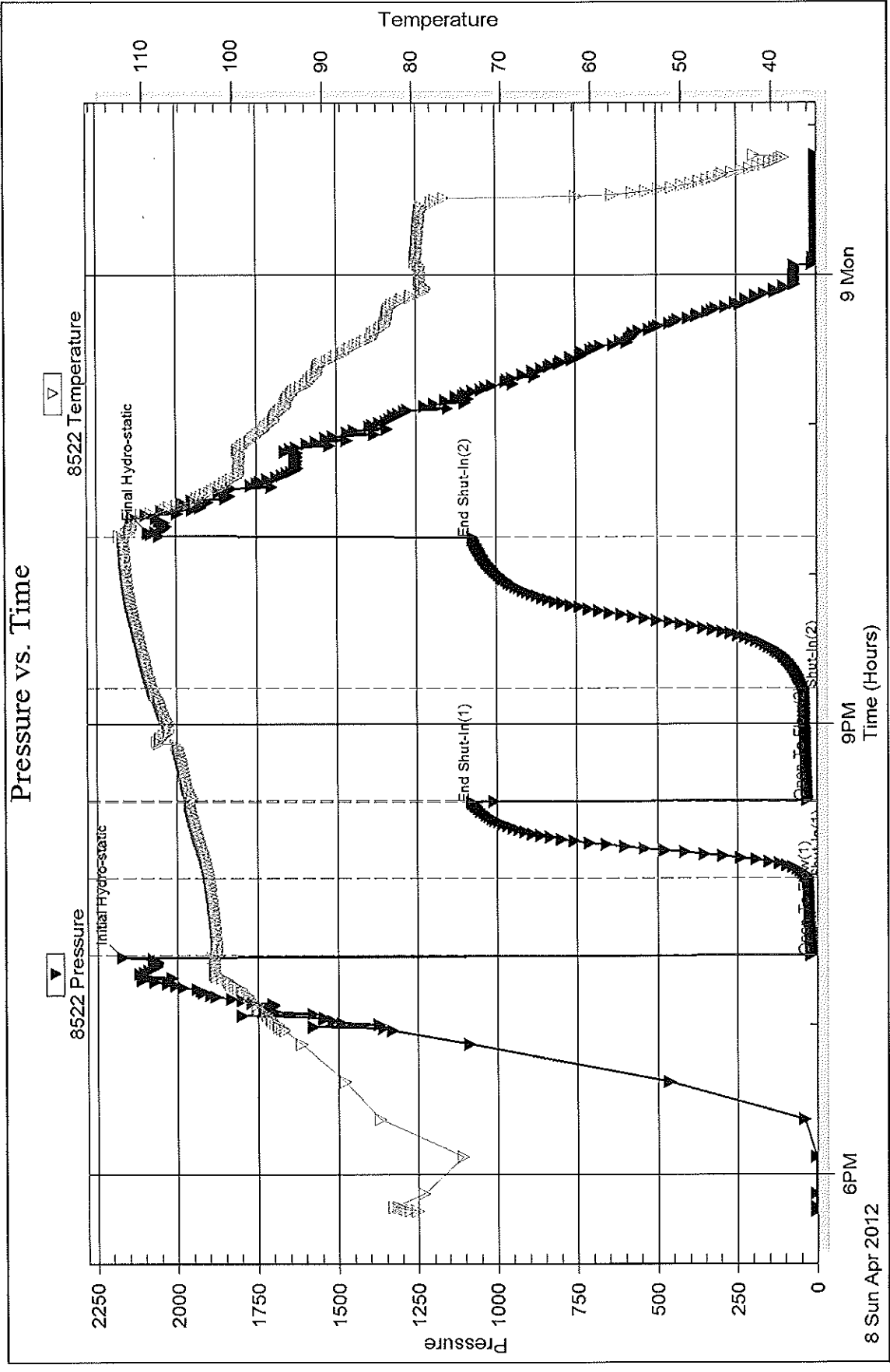
Serial #: 8522

Inside

Shakespear Oil Co, Inc

Obtley 1-21

DST Test Number: 9



Trilbite Testing, Inc

Ref. No: 46682

Printed: 2012.05.17 @ 09:48:32

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

May 18, 2012

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

Re: ACO1
API 15-109-21043-00-00
Ottley 1-21
NW/4 Sec.21-14S-32W
Logan 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