



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1230118
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: _____

1230118

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Koehn 1-10
Doc ID	1230118

Tops

Name	Top	Datum
Base Anhydrite	2476	+656
Heebner	3983	-851
Lansing	4024	-892
Muncie Creek	4200	-1068
Stark Shale	4301	-1169
Hushpuckney	4343	-1211
Marmaton	4438	-1306
Pawnee	4514	-1382
L. Cherokee Shale	4596	-1464
Johnson	4639	-1507
Mississippian	4778	-1646



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 145807

Invoice Date: Sep 17, 2014

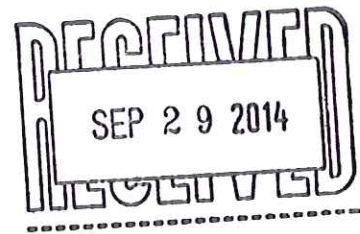
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Shak	64199	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Sep 17, 2014	10/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Koehn #1-10		
260.00	CEMENT MATERIALS	Class A Common	17.90	4,654.00
140.00	CEMENT MATERIALS	Pozmix	9.35	1,309.00
2,784.00	CEMENT MATERIALS	Gel	0.50	1,392.00
100.00	CEMENT MATERIALS	Flo Seal	2.97	297.00
200.00	CEMENT MATERIALS	Cottonseed Hulls	0.99	198.00
632.33	CEMENT SERVICE	Cubic Feet Charge	2.48	1,568.18
1,082.25	CEMENT SERVICE	Ton Mileage Charge	2.75	2,976.19
1.00	CEMENT SERVICE	Port Collar ✓	2,483.59	2,483.59
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	George Grant		

INT



10502-5
4

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

\$ 3,855.61

ONLY IF PAID ON OR BEFORE

Oct 17, 2014

Subtotal	15,422.46
Sales Tax	639.78
Total Invoice Amount	16,062.24
Payment/Credit Applied	
TOTAL	16,062.24

DW



PO Box 93999
Southlake, TX 76092

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

INVOICE

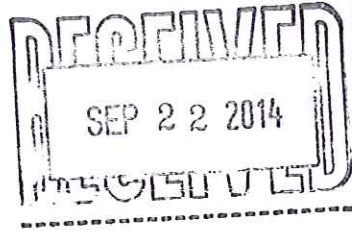
Invoice Number: 145645
Invoice Date: Sep 7, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Shak	64192	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Sep 7, 2014	10/7/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	<u>Koehn #1-10</u>		
165.00	CEMENT MATERIALS	ASC	23.50	3,877.50
825.00	CEMENT MATERIALS	Gilsonite	0.98	808.50
842.00	CEMENT MATERIALS	Salt	0.68	572.56
116.00	CEMENT MATERIALS	CD-31	7.73	896.68
25.00	CEMENT MATERIALS	Defoamer	3.50	87.50
12.00	CEMENT MATERIALS	WFR-II	41.09	493.08
214.72	CEMENT SERVICE	Cubic Feet Charge	2.48	532.51
417.60	CEMENT SERVICE	Ton Mileage Charge	2.75	1,148.40
1.00	CEMENT SERVICE	<u>Production Casing</u> ✓	2,765.75	2,765.75
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	OPERATOR ASSISTANT	Wayne Messalle		

INT



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

\$ 3,000.48

ONLY IF PAID ON OR BEFORE

Oct 7, 2014

Subtotal	12,001.98
Sales Tax	548.97
Total Invoice Amount	12,550.95
Payment/Credit Applied	
TOTAL	12,550.95

DW
10502-5
KW

ALLIED OIL & GAS SERVICES, LLC 064192

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Dabbs, TX

DATE <u>9/7/14</u>	SEC. <u>10</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30</u>	JOB FINISH <u>8:30</u>
LEASE <u>Wood</u>	WELL # <u>1-10</u>	LOCATION <u>Peace NW 1E N into</u>			COUNTY <u>Scott</u>	STATE <u>KJ</u>	
OLD OR NEW (Circle one)							

CONTRACTOR HQ 2
 TYPE OF JOB Prod.
 HOLE SIZE 5 1/2 T.D. 15 1/2
 CASING SIZE 5 1/2 DEPTH 4860
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL Port collar DEPTH 2419
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 42'
 CEMENT LEFT IN CSG. 42
 PERFS. _____
 DISPLACEMENT 115 886 H₂O

OWNER Some

CEMENT AMOUNT ORDERED 1655K ASC 1050600
20 gal. 5" Gilsonite, 3/4" - 1 1/2" C.O.D. 1.19 lb/5K
to 886 H₂O
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC 1655K @ 23.50 38275.00

EQUIPMENT
 PUMP TRUCK CEMENTER Alan Ryan
 # 42-281 HELPER Kevin Ryan
 BULK TRUCK
 # 891 DRIVER Wayne Messallo
 BULK TRUCK DRIVER _____

Gilsonite 825 lb @ 1.88 808.50
20 gal 842 lb @ 1.60 572.50
3/4" 116 lb @ 2.23 826.68
1 1/2" 25 lb @ 3.20 87.50
WFLT 1286 L @ 41.00 493.00
WFLT 1286 L @ 41.00 493.00
 HANDLING 219.00 @ 2.48 532.72
 MILEAGE 27.00 @ 9.00 243.00
(1683.94 / 25%)

REMARKS:
Complete mix 30 SK RT, mix 1355K ASC
Down 51/2" wash Truck, Dipper Plug
W/ 115 886 H₂O, Land Plug
1400 PSI W/ 800 PSI GIFT.
Thank you Alan, Kevin, Wayne

SERVICE
 DEPTH OF JOB 4860'
 PUMP TRUCK CHARGE 2765.25
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 45 @ 2.24 301.50
 MANIFOLD Heath @ 4.40 255.00
45 @ 4.40 198.00

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

(131654 / 25%) TOTAL 32661.6

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.

PLUG & FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____

PRINTED NAME Doug Roberts
 SIGNATURE Doug Roberts

SALES TAX (If Any) _____
 TOTAL CHARGES 12001.92
 DISCOUNT 3000.48 (25%) IF PAID IN 30 DAYS
9001.44 Net.



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 145353
Invoice Date: Aug 27, 2014
Page: 1

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

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

Customer ID	Field Ticket #	Payment Terms	
Shak	64083	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Aug 27, 2014	9/26/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Koehn #1-10		
190.00	CEMENT MATERIALS	Class A Common	17.90	3,401.00
357.00	CEMENT MATERIALS	Gel	0.50	178.50
536.00	CEMENT MATERIALS	Chloride	1.10	589.60
205.45	CEMENT SERVICE	Cubic Feet Charge	2.48	509.52
422.10	CEMENT SERVICE	Ton Mileage Charge	2.75	1,160.78
1.00	CEMENT SERVICE	Surface ✓	1,512.25	1,512.25
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

INT

RECEIVED

SEP 08 2014

Subtotal	8,171.15
Sales Tax	339.78
Total Invoice Amount	8,510.93
Payment/Credit Applied	
TOTAL	8,510.93

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

\$ 2,042.78

ONLY IF PAID ON OR BEFORE
Sep 26, 2014

DW
10502-5
KW

ALLIED OIL & GAS SERVICES, LLC 064093

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Shakley 19

DATE <u>8-27-14</u>	SEC. <u>10</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>12100th</u>	JOB START <u>2:30pm</u>	JOB FINISH <u>5:00pm</u>
LEASE <u>Koehn</u>	WELL# <u>1-10</u>	LOCATION <u>Pence (Cherokee Rd) 1st</u>			COUNTY <u>Scott</u>	STATE <u>Tx</u>	
OLD OR NEW (Circle one)				<u>Y2E. Info</u>			

CONTRACTOR HD 2 OWNER Same.

TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/8</u> T.D. <u>2681</u>	AMOUNT ORDERED <u>190 sks con 3900</u>
CASING SIZE <u>8 7/8</u> DEPTH <u>2681</u>	<u>2 20 gal</u>
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	
MEAS. LINE SHOE JOINT	
CEMENT LEFT IN CSG. <u>151</u>	COMMON <u>190 sks @ 17.20 3406.00</u>
PERFS.	POZMIX @
DISPLACEMENT <u>16.22 bbl</u>	GEL <u>359 # @ .50 178.50</u>
	CHLORIDE <u>386 # @ 1.10 887.60</u>
	ASC @

EQUIPMENT		
PUMP TRUCK CEMENTER <u>Katana Ewante</u>		<u>Montreal 4168.10</u>
# <u>422</u> HELPER <u>Wayne McHugh</u>		<u>(10/20/22)</u>
BULK TRUCK		
# <u>871/310</u> DRIVER <u>Esteban Alcala (PWS)</u>		
BULK TRUCK		
#	DRIVER	
		HANDLING <u>305.45 @ 2.48 509.52</u>
		MILEAGE <u>2387m x 45 x 2.75 1160.78</u>
		TOTAL _____

REMARKS:
mix 190 sks cement
Displace with water
Calmet Dtd circulate
to cellar only

Thank you

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

SERVICE	
DEPTH OF JOB <u>2681</u>	
PUMP TRUCK CHARGE <u>1512.25</u>	
EXTRA FOOTAGE @	
MILEAGE <u>MFLD 45 @ 7.70 346.50</u>	
MANIFOLD @	
<u>MFLD 45 @ 4.90 198.00</u>	
	TOTAL <u>4000.00</u>

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.

PRINTED NAME Ed S Brock
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES 0.11.15
DISCOUNT 2042.18 (25%) IF PAID IN 30 DAYS
6.1.2015 Net



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 59602

DST#: 1

ATTN: Tim Priest

Test Start: 2014.08.31 @ 11:37:00

GENERAL INFORMATION:

Formation: " B "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:12:30

Time Test Ended: 19:58:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Samuel Esparza

Unit No: 72

Interval: 4058.00 ft (KB) To 4080.00 ft (KB) (TVD)

Reference Elevations: 3127.00 ft (KB)

Total Depth: 4080.00 ft (KB) (TVD)

3122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845 Inside

Press@RunDepth: 138.13 psig @ 4059.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.08.31

End Date:

2014.08.31

Last Calib.: 2014.08.31

Start Time: 11:37:05

End Time:

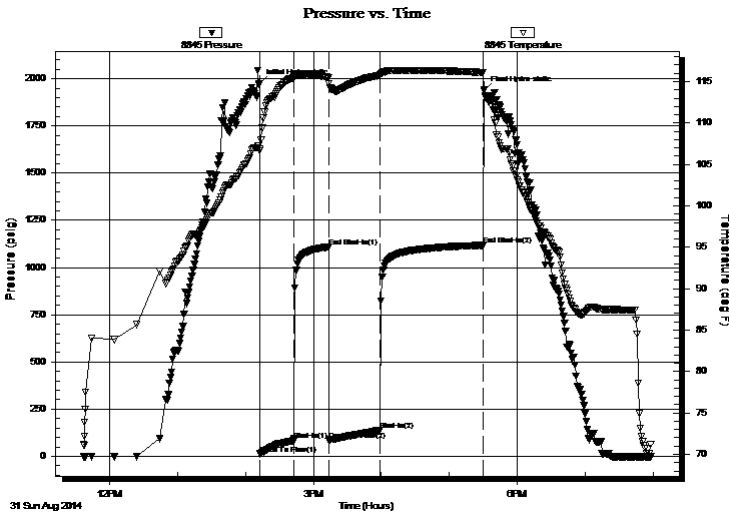
19:57:59

Time On Btm: 2014.08.31 @ 14:12:15

Time Off Btm: 2014.08.31 @ 17:30:45

TEST COMMENT: IF: 6" Blow.
IS: No Return.
FF: 8 1/2" Blow.
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1974.10	107.31	Initial Hydro-static
1	12.49	106.67	Open To Flow (1)
31	82.61	115.42	Shut-In(1)
61	1108.98	115.49	End Shut-In(1)
62	85.94	114.77	Open To Flow (2)
107	138.13	115.78	Shut-In(2)
198	1117.71	116.09	End Shut-In(2)
199	1938.55	113.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	MW 20m 80w	2.80

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 59602

DST#: 1

ATTN: Tim Priest

Test Start: 2014.08.31 @ 11:37:00

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:

60000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	MW 20m 80w	2.798

Total Length: 280.00 ft Total Volume: 2.798 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .135 @ 77 degrees= 60,000 ppm

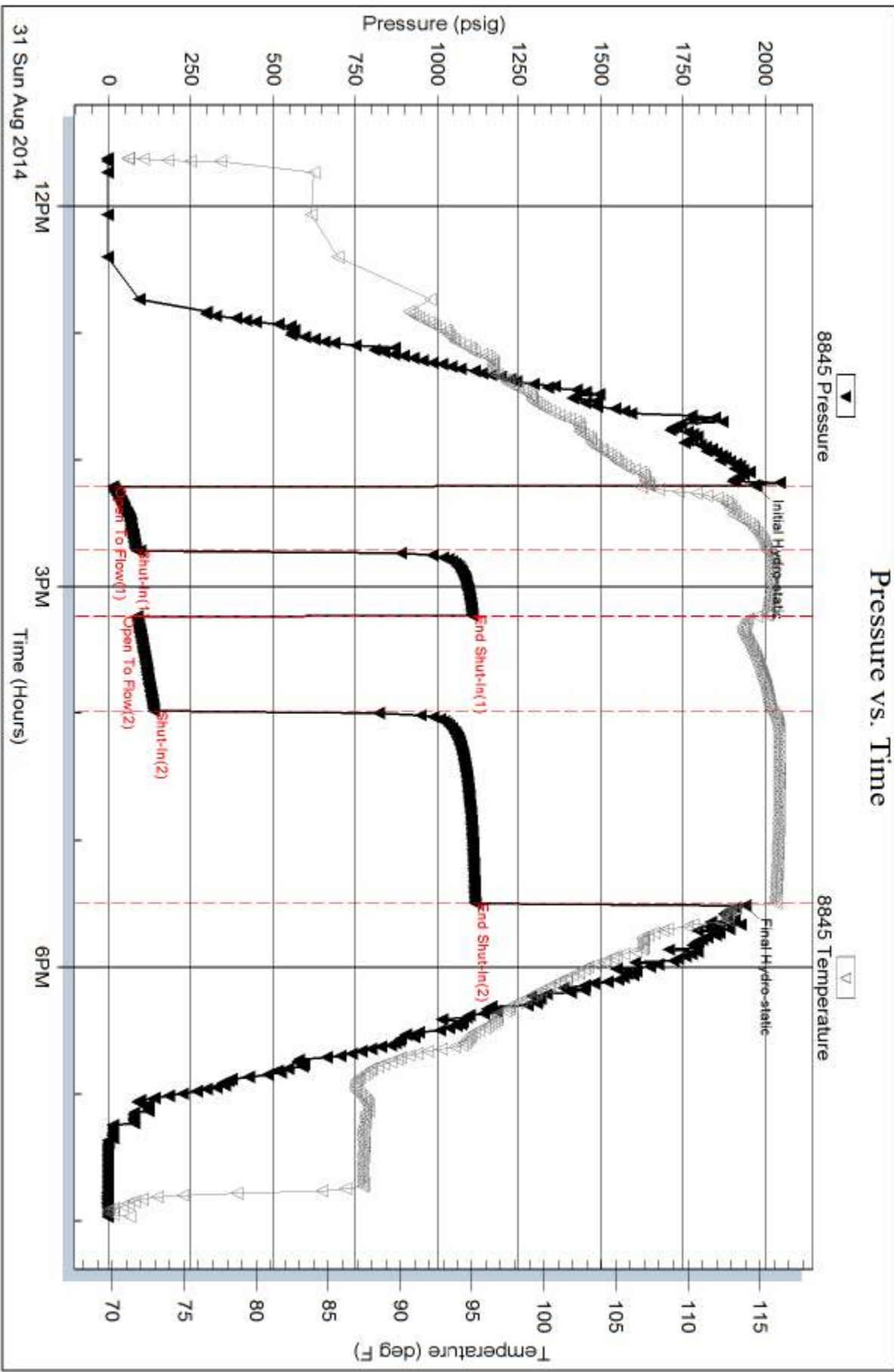
Serial #: 8845

Inside

Shakespeare Oil Co.

Koehn #1-10

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 59602

Printed: 2014.08.31 @ 22:51:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 59603

DST#: 2

ATTN: Tim Priest

Test Start: 2014.09.01 @ 22:35:00

GENERAL INFORMATION:

Formation: " I "
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:09:00
 Time Test Ended: 05:49:45
 Interval: **4244.00 ft (KB) To 4275.00 ft (KB) (TVD)**
 Total Depth: 4275.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Samuel Esparza
 Unit No: 72
 Reference Elevations: 3127.00 ft (KB)
 3122.00 ft (CF)
 KB to GR/CF: 5.00 ft

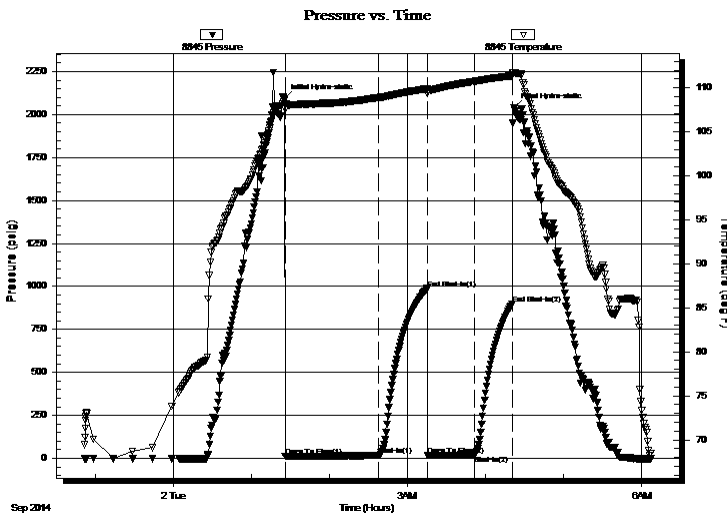
Serial #: 8845

Inside

Press @ RunDepth: 20.03 psig @ 4245.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.09.01 End Date: 2014.09.02 Last Calib.: 2014.09.02
 Start Time: 22:52:05 End Time: 06:06:44 Time On Btm: 2014.09.02 @ 01:25:45
 Time Off Btm: 2014.09.02 @ 04:21:45

TEST COMMENT: IF: Weak Surface Blow.
 IS: No Return.
 FF: No Blow.
 FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2090.80	108.61	Initial Hydro-static
1	10.08	107.55	Open To Flow (1)
72	15.92	108.88	Shut-In(1)
110	987.74	109.88	End Shut-In(1)
110	17.76	109.34	Open To Flow (2)
146	20.03	110.72	Shut-In(2)
175	896.65	111.35	End Shut-In(2)
176	2037.28	111.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m	0.05

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.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 59603

DST#: 2

ATTN: Tim Priest

Test Start: 2014.09.01 @ 22:35:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

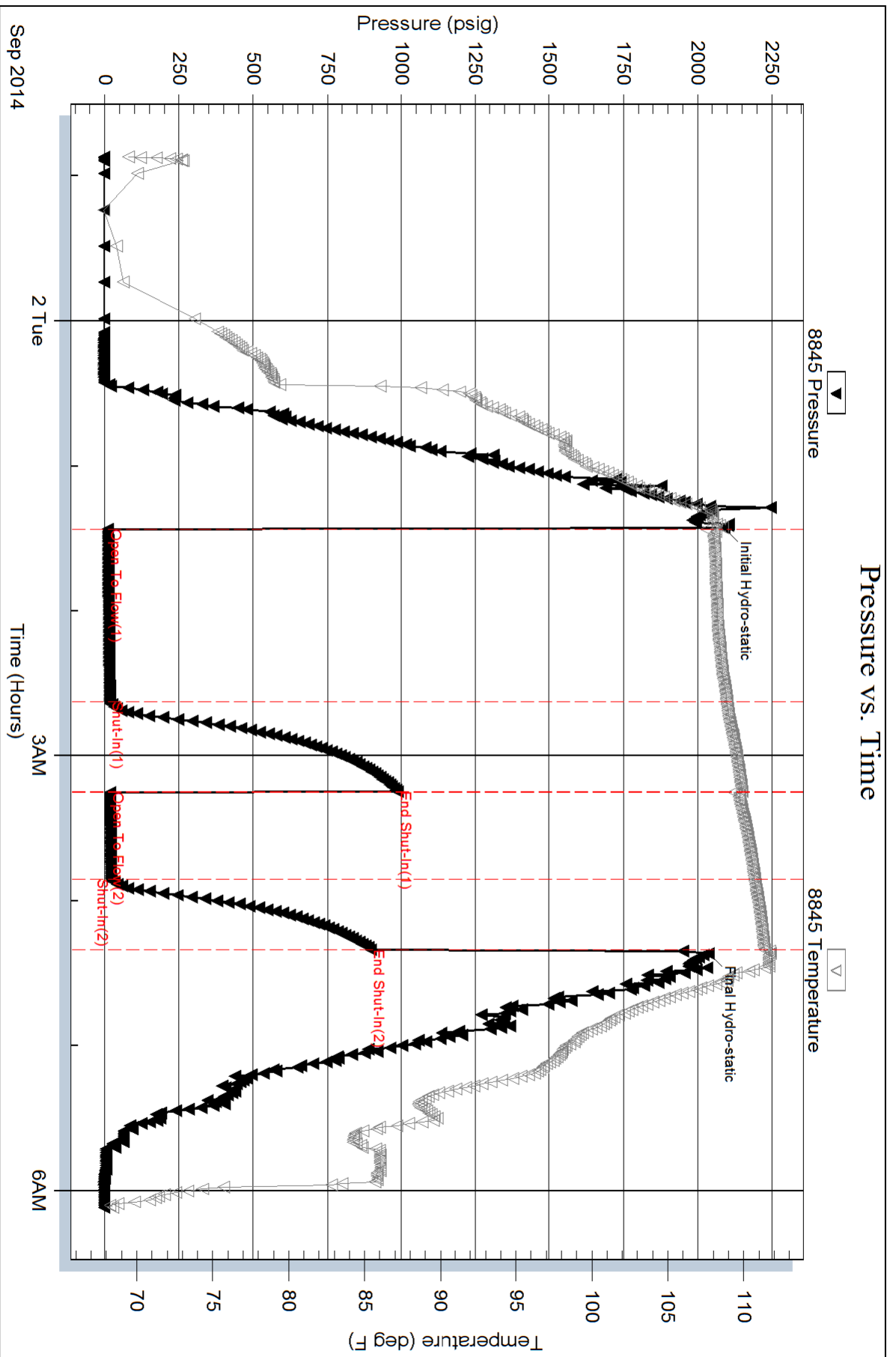
Serial #: 8845

Inside

Shakespeare Oil Co.

Koehn #1-10

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 59603

Printed: 2014.09.02 @ 06:53:05



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 59604

DST#: 3

ATTN: Tim Priest

Test Start: 2014.09.03 @ 06:36:00

GENERAL INFORMATION:

Formation: **Marmaton "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:28:15

Time Test Ended: 14:47:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Samuel Esparza

Unit No: 72

Interval: 4404.00 ft (KB) To 4460.00 ft (KB) (TVD)

Reference Elevations: 3127.00 ft (KB)

Total Depth: 4460.00 ft (KB) (TVD)

3122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845

Inside

Press@RunDepth: 120.55 psig @ 4405.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.03

End Date: 2014.09.03

Last Calib.: 2014.09.03

Start Time: 06:36:05

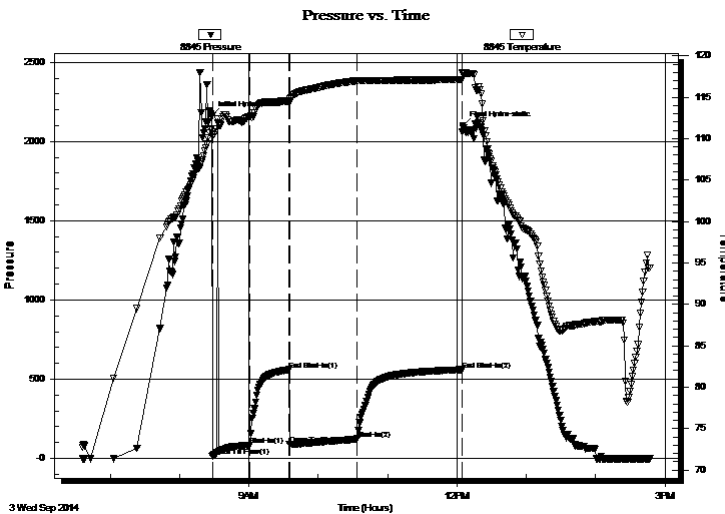
End Time: 14:47:14

Time On Btm: 2014.09.03 @ 08:28:00

Time Off Btm: 2014.09.03 @ 12:05:15

TEST COMMENT: IF: 5 1/2" Blow .
IS: No Return
FF: 9" Blow .
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.90	111.18	Initial Hydro-static
1	13.46	110.26	Open To Flow (1)
33	83.24	112.64	Shut-In(1)
67	559.37	114.50	End Shut-In(1)
67	88.44	114.34	Open To Flow (2)
126	120.55	116.99	Shut-In(2)
217	559.28	117.14	End Shut-In(2)
218	2099.51	117.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOWCM 10g 5w 35o 50m	0.62
195.00	GO 10g 90o	2.74

* 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.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 59604

DST#: 3

ATTN: Tim Priest

Test Start: 2014.09.03 @ 06:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	GOWCM 10g 5w 35o 50m	0.624
195.00	GO 10g 90o	2.735

Total Length: 320.00 ft Total Volume: 3.359 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API: 34 @ 100 degrees= 30 deg API

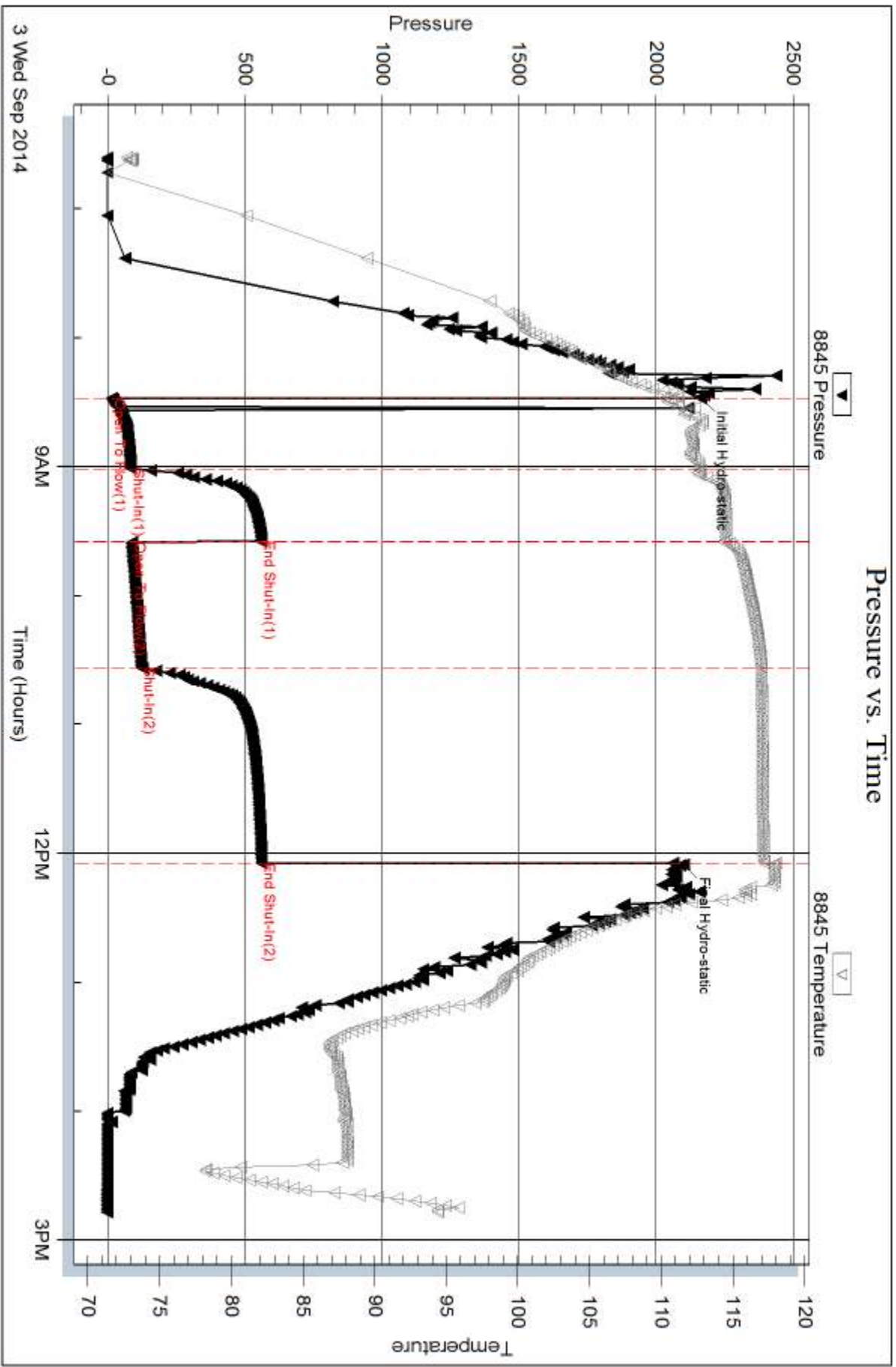
Serial #: 8845

Inside

Shakespeare Oil Co.

Koehn #1-10

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59604

Printed: 2014.09.04 @ 08:03:56



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 57723

DST#: 4

ATTN: Tim Priest

Test Start: 2014.09.04 @ 00:30:00

GENERAL INFORMATION:

Formation: **Marmanton " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:35:25

Time Test Ended: 06:20:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 72

Interval: 4460.00 ft (KB) To 4485.00 ft (KB) (TVD)

Reference Elevations: 3127.00 ft (KB)

Total Depth: 4485.00 ft (KB) (TVD)

3122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845

Inside

Press@RunDepth: 10.11 psig @ 4461.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.04

End Date:

2014.09.04

Last Calib.: 2014.09.04

Start Time: 00:30:00

End Time:

06:20:39

Time On Btm: 2014.09.04 @ 02:35:10

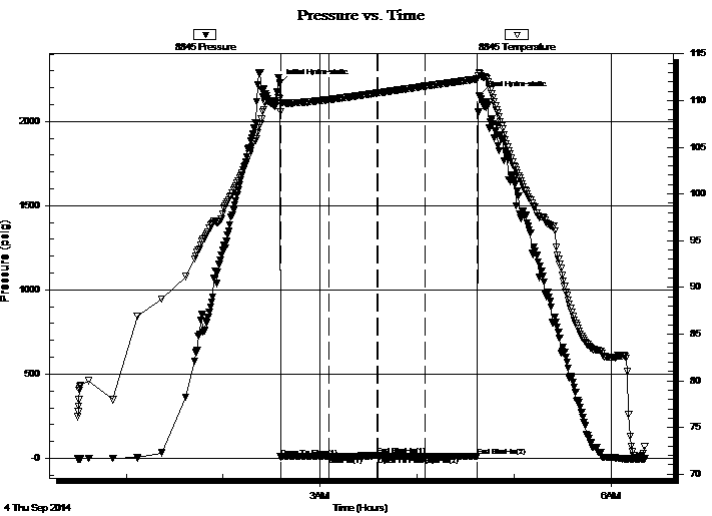
Time Off Btm: 2014.09.04 @ 04:38:25

TEST COMMENT: IF- Very Weak Surface Blow Died in 1 3/4min

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2226.18	110.18	Initial Hydro-static
1	8.51	108.81	Open To Flow (1)
31	10.35	110.10	Shut-In(1)
61	15.83	110.80	End Shut-In(1)
61	9.55	110.81	Open To Flow (2)
90	10.11	111.53	Shut-In(2)
122	13.36	112.29	End Shut-In(2)
124	2153.58	113.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	100% m with Oil Spots in Tool	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 57723

DST#: 4

ATTN: Tim Priest

Test Start: 2014.09.04 @ 00:30:00

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: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
2.00	100% m with Oil Spots in Tool	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

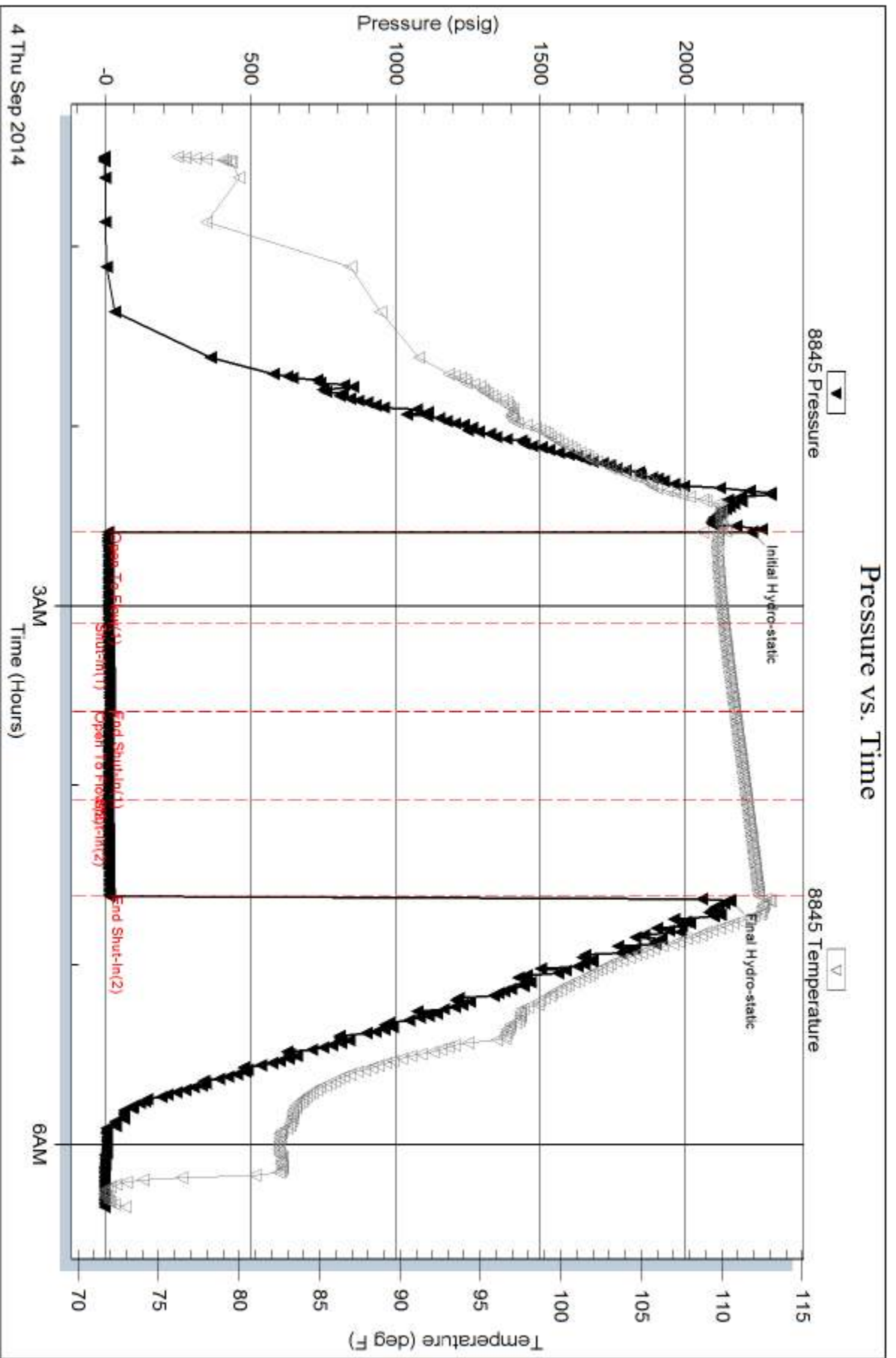
Serial #: 8845

Inside

Shakespeare Oil Co.

Koehn #1-10

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 57723

Printed: 2014.09.04 @ 08:03:07



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 57724

DST#: 5

ATTN: Tim Priest

Test Start: 2014.09.04 @ 22:32:00

GENERAL INFORMATION:

Formation: **Myric - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:01:55

Time Test Ended: 04:51:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 72

Interval: 4542.00 ft (KB) To 4595.00 ft (KB) (TVD)

Reference Elevations: 3127.00 ft (KB)

Total Depth: 4595.00 ft (KB) (TVD)

3122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845

Inside

Press @ Run Depth: 13.37 psig @ 4543.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.04

End Date:

2014.09.05

Last Calib.:

2014.09.05

Start Time: 22:32:00

End Time:

04:51:39

Time On Btm:

2014.09.05 @ 01:01:40

Time Off Btm:

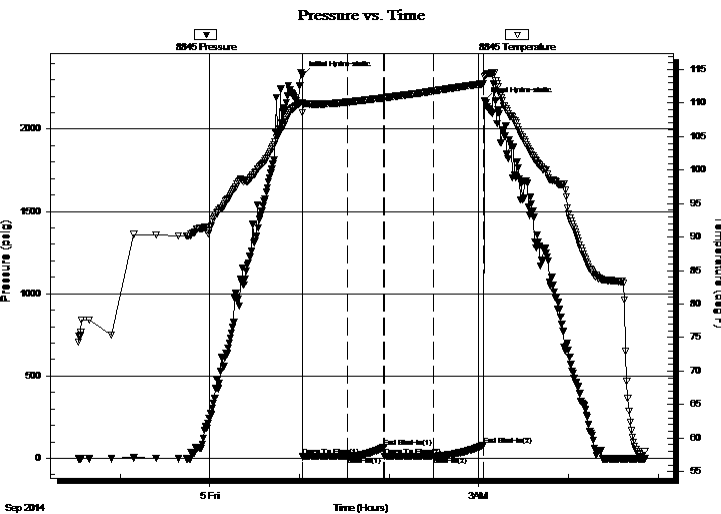
2014.09.05 @ 03:03:54

TEST COMMENT: IF- Weak Surface Blow Died in 14min

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2327.82	110.09	Initial Hydro-static
1	9.64	108.61	Open To Flow (1)
31	12.76	110.14	Shut-In(1)
55	68.67	110.78	End Shut-In(1)
55	12.14	110.77	Open To Flow (2)
88	13.37	111.79	Shut-In(2)
122	80.33	112.87	End Shut-In(2)
123	2170.32	113.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	100% m with a Couple Oil Spots in Tool	0.02

* 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.

10-16s-34w Scott co.

202 W Main st.
Salem, IL 62881

Koehn #1-10

Job Ticket: 57724

DST#: 5

ATTN: Tim Priest

Test Start: 2014.09.04 @ 22:32:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	100% m with a Couple Oil Spots in Tool	0.020

Total Length: 4.00 ft Total Volume: 0.020 bbl

Num Fluid Samples: 0

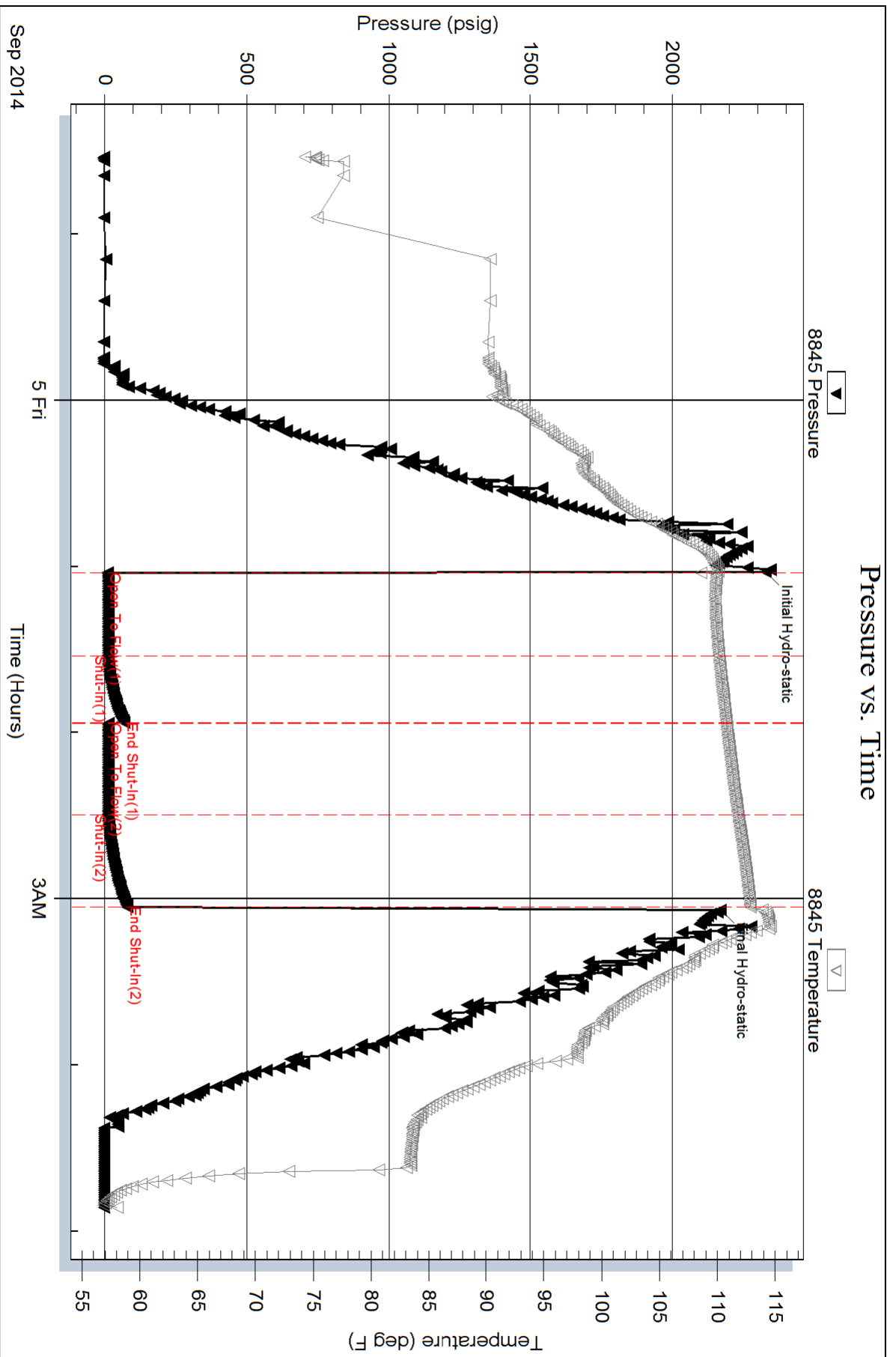
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY **SHAKESPARE OIL CO.** ELEVATIONS
 LEASE **KOHN-1-10** KG 3132'
 FIELD **Wildcat** DF _____
 LOCATION **80° NW 2050' TEL** GL 3122'
 SEC **10** T15SP **16S** R0E **34W**
 COUNTY **Scott** STATE **Kansas** Measurements Are All From **KB**

CONTRACTOR **HD Rite 2** From **KB**
 SPUD **8-26-14** COMP **9-6-14**
 RTD **4860'** LTD **4860'** CASING CONDUCTION **N/A**
 MUD UP **3600'** TYPE MUD **Chemical** SURFACE **8-5/8" @ 265'**
 SAMPLES SAVED FROM **3800'** to RTD PRODUCTION **5 1/2" @ 4860'**
 DRILLING TIME KEPT FROM **3800'** to RTD
 SAMPLES EXAMINED FROM **3800'** to RTD
 GEOLOGICAL SUPERVISION FROM **3800'** to RTD
 GEOLOGIST ON WELL **Tim Priest** Micro sonic By: **Weatherford**

FORMATION TOPS ELECTRIC LOG SAMPLE
 Anhydrite 2457 (+675) 2460 (+672)
 Heebner Shale 3983 (-853) 3986 (-866)
 Lansing 4024 (-892) 4027 (-895)
 Stark 4302 (-1170) 4306 (-1174)
 B/K.C. 4389 (-1257) 4390 (-1258)
 Fort Scott 4596 (-1464) 4571 (-1439)
 Mississippi 4778 (-1646) 4780 (-1648)

REMARKS Due to the results of DST #3, it was decided to set production casing to further test the well.

Respectfully Submitted,
 Tim Priest
 Petroleum Geologist

API #15-171-21049-00-00
