



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1211695
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: _____

1211695

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	Radnor 2-14
Doc ID	1211695

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Radnor 2-14
Doc ID	1211695

Tops

Name	Top	Datum
Base Anhydrite	2478	+651
Heebner	3992	-863
Lansing	4034	-905
Muncie Creek	4212	-1083
Stark Shale	4307	-1178
Hushpuckney	4350	-1221
Marmaton	4443	-1314
Pawnee	4517	-1388
L. Cherokee Shale	4600	-1471
Johnson	4645	-1516
Mississippian	4763	-1634



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143650

Invoice Date: Jun 2, 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	63295	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Jun 2, 2014	7/2/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Radnor #2-14		
293.00	CEMENT MATERIALS	Class A Common	17.90	5,244.70
157.00	CEMENT MATERIALS	Pozmix	9.35	1,467.95
3,132.00	CEMENT MATERIALS	Gel	1.05	3,288.60
113.00	CEMENT MATERIALS	Flo Seal	2.97	335.61
600.00	CEMENT MATERIALS	Cottonseed Hulls	0.99	594.00
586.34	CEMENT SERVICE	Cubic Feet Charge	2.48	1,454.12
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	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

INT

RECEIVED
 JUN 16 2014
 10502-S
 JW

DW

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

\$ 4,597.31

ONLY IF PAID ON OR BEFORE
Jul 2, 2014

Subtotal	18,389.26
Sales Tax	890.87
Total Invoice Amount	19,280.13
Payment/Credit Applied	
TOTAL	19,280.13



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 143510

Invoice Date: May 25, 2014

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

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

Customer ID	Field Ticket #	Payment Terms	
Shak	63303	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	May 24, 2014	6/24/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Radner #2-14		
180.00	CEMENT MATERIALS	ASC	20.90	3,762.00
900.00	CEMENT MATERIALS	Gilsonite	0.98	882.00
124.00	CEMENT MATERIALS	CD-31	10.03	1,243.72
27.00	CEMENT MATERIALS	Defoamer	9.80	264.60
12.00	CEMENT MATERIALS	Mud Flush	58.70	704.40
202.83	CEMENT SERVICE	Cubic Feet Charge	2.48	503.02
412.65	CEMENT SERVICE	Ton Mileage Charge	2.60	1,072.89
1.00	CEMENT SERVICE	Production Casing ✓	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	Talon Jones		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		

INT



10502-185
KW

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

\$ 3,004.46

ONLY IF PAID ON OR BEFORE Jun 24, 2014

Subtotal	12,017.88
Sales Tax	558.82
Total Invoice Amount	12,576.70
Payment/Credit Applied	
TOTAL	12,576.70

DW

ALLIED OIL & GAS SERVICES, LLC 063303

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Country KS

DATE <u>5-24-14</u>	SEC. <u>14</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>7pm</u>	JOB START <u>8pm</u>	JOB FINISH <u>8:30pm</u>
LEASE <u>Roadnet</u>	WELL# <u>2-14</u>	LOCATION <u>Perceles 3E 11 1W</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>Southwind #70</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4868</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>4867</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>2423, 28</u>	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42</u>
CEMENT LEFT IN CSG. <u>42</u>	
PERFS.	
DISPLACEMENT <u>114.5</u>	

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Talon Jones</u>
# <u>431</u>	HELPER <u>Wayne M. M...ly</u>
BULK TRUCK	
# <u>891</u>	DRIVER <u>Enrique (TWS)</u>
BULK TRUCK	
#	DRIVER

CEMENT		
AMOUNT ORDERED <u>180 sks ASC</u>		
<u>5# GIL .025% (C.D.3)</u>	<u>1.5% Deband</u>	
<u>12 bbl Mud Flush</u>		
COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC <u>180 sks</u>	@ <u>20.90</u>	<u>3,762.00</u>
<u>900# GIL</u>	@ <u>.98</u>	<u>882.00</u>
<u>124# C.D.-31</u>	@ <u>10.00</u>	<u>1,240.00</u>
<u>22# Deband</u>	@ <u>9.50</u>	<u>209.00</u>
<u>12 bbl Mud Flush</u>	@ <u>58.70</u>	<u>704.40</u>
<u>Mud Flush</u>	@	<u>6,557.40</u>
<u>(1,213.97/25.8)</u>	@	
HANDLING <u>202.83 cost</u>	@ <u>2.48</u>	<u>503.01</u>
MILEAGE <u>917 for 45mi</u>	@ <u>2.60</u>	<u>1,072.89</u>
TOTAL		

REMARKS:
Pump 21 bbl water followed
by 12 bbl Mud Flush
1 mix 30 sks R.H.
Mix 150 sks @ 4868 (clean up bit)
displace 114.5 water
landed plug 1500psi plug held
Thank you!

SERVICE

DEPTH OF JOB	<u>4867</u>
PUMP TRUCK CHARGE	<u>2765.75</u>
EXTRA FOOTAGE	@
MILEAGE <u>H.V 45mi</u>	@ <u>7.70</u> <u>346.50</u>
MANIFOLD <u>head</u>	@ <u>278.00</u>
<u>L.V. 45mi</u>	@ <u>4.40</u> <u>198.00</u>
TOTAL	

(1,879.28/25.8) TOTAL 5,161.15

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.

PRINTED NAME Jay Roberts
 SIGNATURE Jay Roberts

SALES TAX (If Any) _____
 TOTAL CHARGES 1,2016.77
 DISCOUNT 3,000/19(25%) IF PAID IN 30 DAYS
9,012.57 Net



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 143280

Invoice Date: May 14, 2014

Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Shak	63491	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 14, 2014	6/13/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	<u>Radner #2-14</u>		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
3.00	CEMENT MATERIALS	Gel	23.40	70.20
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
194.64	CEMENT SERVICE	Cubic Feet Charge	2.48	482.71
399.60	CEMENT SERVICE	Ton Mileage Charge	2.60	1,038.96
1.00	CEMENT SERVICE	Surface ✓	1,512.25	1,512.25
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		

INT

RECEIVED
MAY 27 2014

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

\$ 1,882.40 ✓

ONLY IF PAID ON OR BEFORE
Jun 8, 2014

Subtotal	7,529.62
Sales Tax	299.61
Total Invoice Amount	7,829.23
Payment/Credit Applied	
TOTAL	7,829.23

DW
10502.5
KW

ALLIED OIL & GAS SERVICES, LLC 063491

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>5-14-14</u>	SEC <u>14</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>12:30am.</u>	JOB START <u>3:00am</u>	JOB FINISH <u>3:30am</u>
LEASE <u>Radnor</u>	WELL# <u>2-14</u>	LOCATION <u>Pence E to Eagle Rd, 1 N,</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		I W, '43, E into					

CONTRACTOR Saxhuind 70

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 268'

CASING SIZE 8 5/8 DEPTH 267.85'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 16.11 bbl water

EQUIPMENT

PUMP TRUCK # 422/281 CEMENTER Paul Beaver

BULK TRUCK # 821/310 DRIVER Greg (Tass)

BULK TRUCK # _____ DRIVER _____

OWNER Same

CEMENT AMOUNT ORDERED 180 sks Com 3% CC 2% gel

COMMON	<u>180 sks</u>	@ <u>17.90</u>	<u>3222.00</u>
POZMIX	_____	@ _____	_____
GEL	<u>3 sks</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>6 sks</u>	@ <u>62.00</u>	<u>372.00</u>
ASC	_____	@ _____	_____
Material Total			@ _____ <u>3660.00</u>
(919.05/25%)			@ _____
Service			@ _____
HANDLING	<u>194.64 ft³</u>	@ <u>2.48</u>	<u>482.71</u>
MILEAGE	<u>8.88 tons x 45 x 2.60</u>	@ _____	<u>1038.96</u>

REMARKS:

mix 180 sks Com 3% CC 2% gel
Displace w/ water
cement did circulate

Thank you!
Paul + Tyler

CHARGE TO: Shakespeare

STREET _____

CITY _____ STATE _____ ZIP _____

DEPTH OF JOB 268'

PUMP TRUCK CHARGE _____ 1512.25

EXTRA FOOTAGE @ _____

MILEAGE MIAV 45 @ 7.70 346.50

MANIFOLD swedge @ _____ 275.00

MILV 45 @ 4.40 198.00

(963.35/25%) TOTAL 3,883.40

PLUG & FLOAT EQUIPMENT

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
(06)	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 Steve Smith

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 7,529.62

DISCOUNT 1,882.40 (25%) IF PAID IN 30 DAYS

5,647.21 Net



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

14-16s-34w-Scott CO, KS

202 W. Main St.
Salem, IL 62881

Radnor #2-14

Job Ticket: 56535

DST#: 1

ATTN: Wes Hansen

Test Start: 2014.05.20 @ 04:57:00

GENERAL INFORMATION:

Formation: **Marmaton 'A'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:52:30

Time Test Ended: 15:36:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III

Unit No: 65

Interval: 4384.00 ft (KB) To 4450.00 ft (KB) (TVD)

Reference Elevations: 3129.00 ft (KB)

Total Depth: 4450.00 ft (KB) (TVD)

3117.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8737 Outside

Press@RunDepth: 1085.19 psig @ 4388.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.20 End Date: 2014.05.20

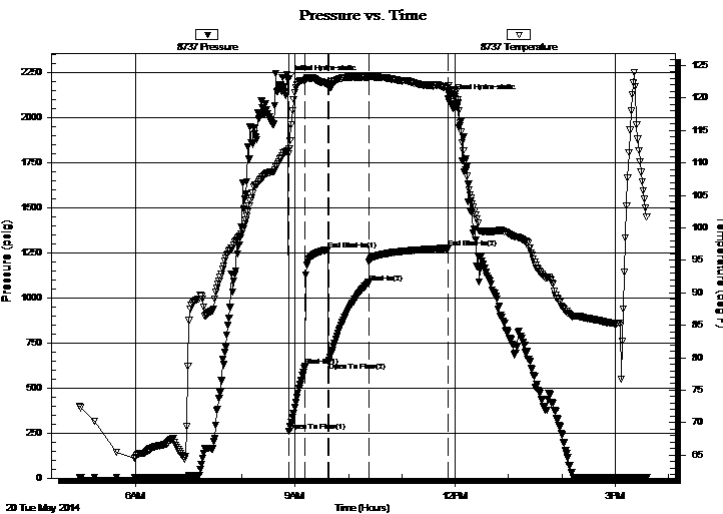
Last Calib.: 2014.05.20

Start Time: 04:57:15 End Time: 15:36:30

Time On Btm: 2014.05.20 @ 08:52:00

Time Off Btm: 2014.05.20 @ 11:52:30

TEST COMMENT: IF: B.o.b. in 1 min.
IS: Bled off in 2 1/2 min.- Surface Blow back throughout Shut-in
FF: B.o.b. in 1 min.
FS: Bled off in 1 1/2 min.-Weak surface Blow back-Died in 5 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.18	111.86	Initial Hydro-static
1	259.24	111.41	Open To Flow (1)
19	619.61	122.68	Shut-In(1)
45	1266.78	122.15	End Shut-In(1)
46	645.34	121.85	Open To Flow (2)
91	1085.19	123.20	Shut-In(2)
180	1275.66	121.64	End Shut-In(2)
181	2106.42	121.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
612.00	G & Mcw 20g 20m 60w	8.58
189.00	G & Mcw 15g 30m 55w	2.65
189.00	Mco & G 20m 20o 60g	2.65
63.00	G & Mco 20g 25m 55o	0.88
1386.00	Gw 10g 90w	19.44

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc.

14-16s-34w-Scott CO, KS

202 W. Main St.
Salem, IL 62881

Radnor #2-14

Job Ticket: 56535

DST#: 1

ATTN: Wes Hansen

Test Start: 2014.05.20 @ 04:57:00

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:

15000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
612.00	G & Mcw 20g 20m 60w	8.585
189.00	G & Mcw 15g 30m 55w	2.651
189.00	Mco & G 20m 20o 60g	2.651
63.00	G & Mco 20g 25m 55o	0.884
1386.00	Gw 10g 90w	19.442

Total Length: 2439.00 ft Total Volume: 34.213 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

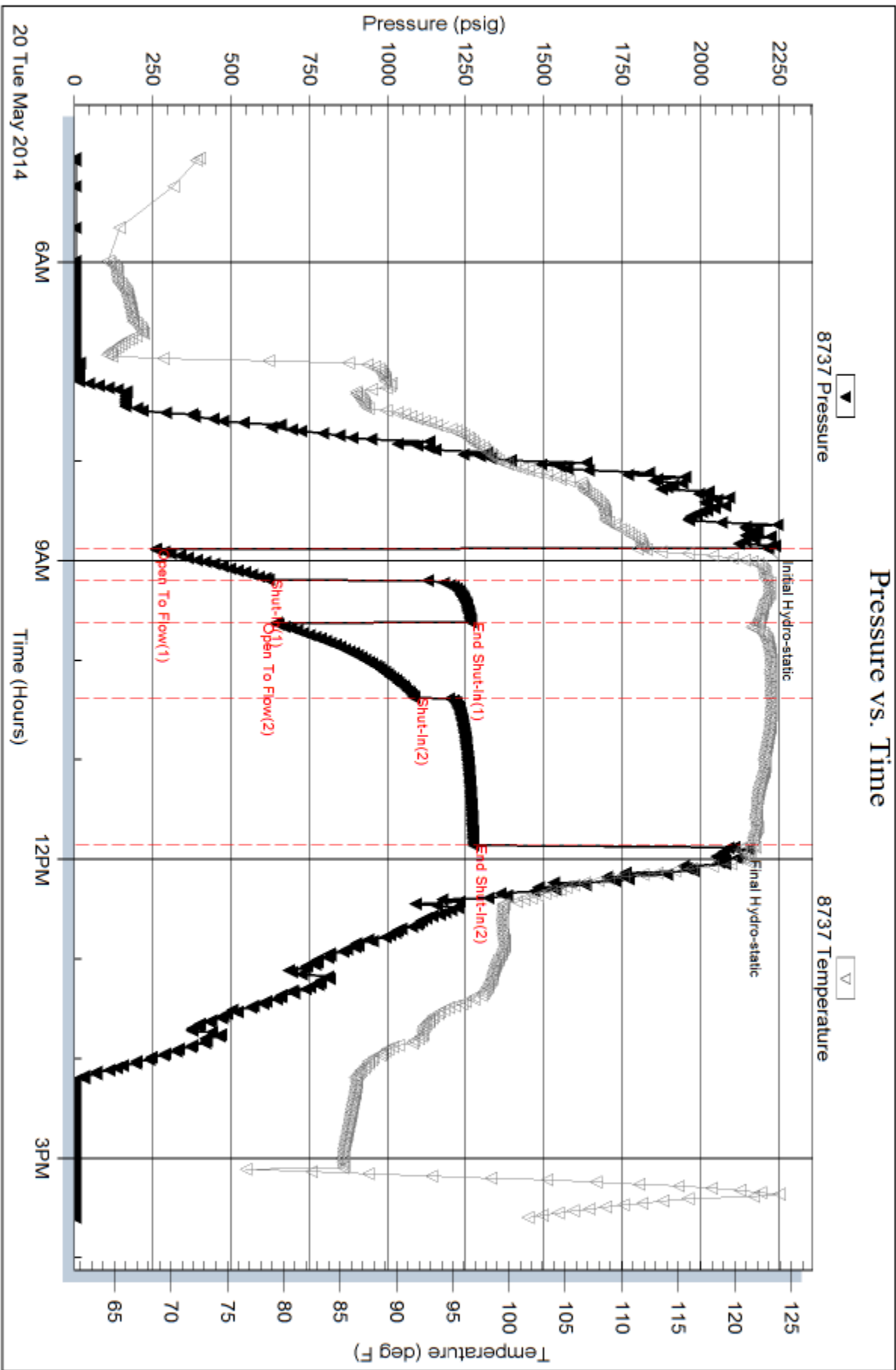
Recovery Comments: RW .330@91=15000

Serial #: 8737

Outside Shakespeare Oil Co. Inc.

Radnor #2-14

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

14-16s-34w-Scott CO, KS

202 W. Main St.
Salem, IL 62881

Radnor #2-14

Job Ticket: 56536

DST#: 2

ATTN: Wes Hansen

Test Start: 2014.05.21 @ 00:03:00

GENERAL INFORMATION:

Formation: **Marmaton 'A & B'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:42:45
 Time Test Ended: 08:49:15
 Interval: **4412.00 ft (KB) To 4465.00 ft (KB) (TVD)**
 Total Depth: 4465.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cornelio Landa III
 Unit No: 65
 Reference Elevations: 3129.00 ft (KB)
 3117.00 ft (CF)
 KB to GR/CF: 12.00 ft

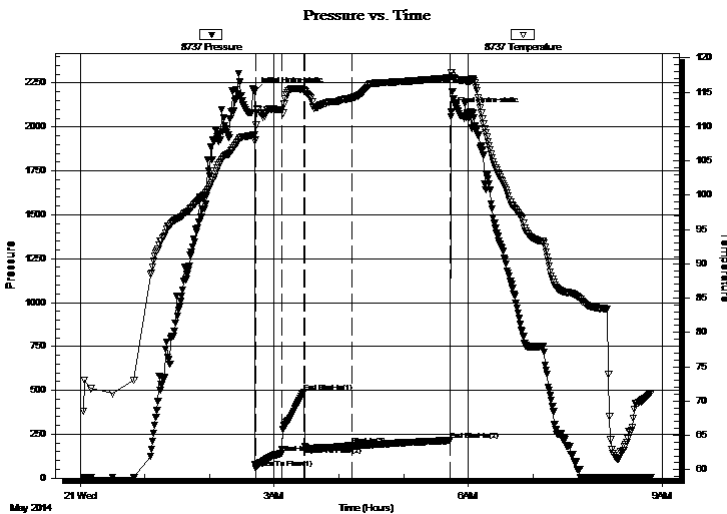
Serial #: 8737

Outside

Press@RunDepth: 185.55 psig @ 4415.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.21 End Date: 2014.05.21 Last Calib.: 2014.05.21
 Start Time: 00:03:15 End Time: 08:49:15 Time On Btm: 2014.05.21 @ 02:42:00
 Time Off Btm: 2014.05.21 @ 05:44:30

TEST COMMENT:

IF: B.o.b. in 4 min.
 IS: Bled off in 2 min.-Surface blow back-Built to 1/2 in.-Died back to surface blow back
 FF: Surface blow -Built to 7 in.-Died back to 5 1/2 in.
 FS: Bled off in 2 min.-Surface blow back-Built to 1/4 in. Blow back-Died back to surface blow back-Died in 50 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2204.43	108.83	Initial Hydro-static
1	57.46	108.13	Open To Flow (1)
25	142.31	112.42	Shut-In(1)
46	487.89	115.35	End Shut-In(1)
47	182.09	115.22	Open To Flow (2)
91	185.55	114.20	Shut-In(2)
182	214.81	117.08	End Shut-In(2)
183	2086.46	117.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP=504	0.00
63.00	Cgo 50g 50o	0.88
126.00	Cgo 30g 70o	1.77
189.00	Mco & G 25m 30o 45g	2.65
126.00	G & Ocm 30g 30o 40m	1.77

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc.

14-16s-34w-Scott CO, KS

202 W. Main St.
Salem, IL 62881

Radnor #2-14

Job Ticket: 56536

DST#: 2

ATTN: Wes Hansen

Test Start: 2014.05.21 @ 00:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.55 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 bbf
0.00	GIP=504	0.000
63.00	Cgo 50g 50o	0.884
126.00	Cgo 30g 70o	1.767
189.00	Mco & G 25m 30o 45g	2.651
126.00	G & Ocm 30g 30o 40m	1.767

Total Length: 504.00 ft Total Volume: 7.069 bbf

Num Fluid Samples: 0

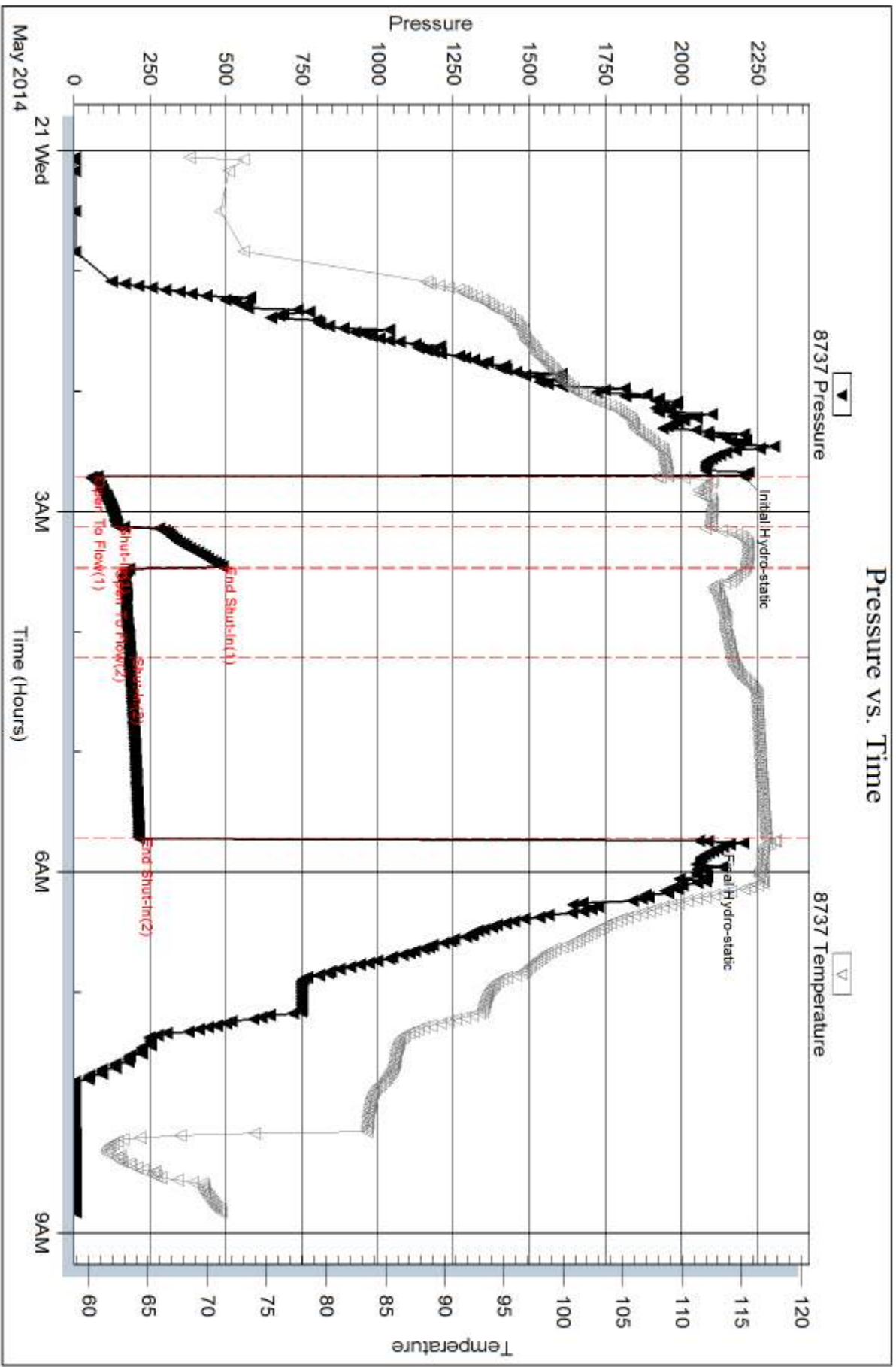
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity 38@70=37





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

14-16s-34w-Scott CO, KS

202 W. Main St.
Salem, IL 62881

Radnor #2-14

Job Ticket: 56537

DST#: 3

ATTN: Wes Hansen

Test Start: 2014.05.22 @ 05:10:00

GENERAL INFORMATION:

Formation: **Myric Station-Ft. Sc**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:20:45

Time Test Ended: 12:59:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 65

Interval: 4550.00 ft (KB) To 4611.00 ft (KB) (TVD)

Reference Elevations: 3129.00 ft (KB)

Total Depth: 4611.00 ft (KB) (TVD)

3117.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8737 Outside

Press@RunDepth: 50.51 psig @ 4554.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.22 End Date: 2014.05.22

Last Calib.: 2014.05.22

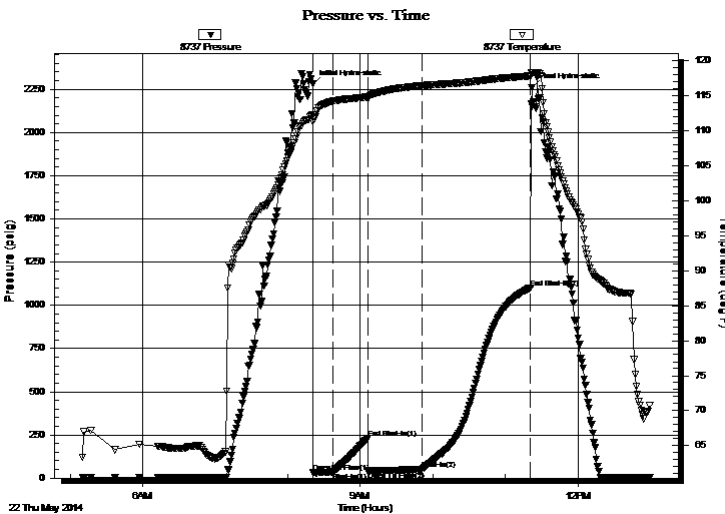
Start Time: 05:10:15 End Time: 12:59:45

Time On Btm: 2014.05.22 @ 08:20:30

Time Off Btm: 2014.05.22 @ 11:21:45

TEST COMMENT: IF: B.o.b. in 9 min.
IS: Bled off in 3 min.-No return
FF: Surface Blow -Built to 7 1/2 in.-Died back to 7 in.
FS: Bled off in 2 min.- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2279.50	112.21	Initial Hydro-static
1	31.09	111.31	Open To Flow (1)
17	36.05	114.22	Shut-In(1)
46	230.85	114.81	End Shut-In(1)
46	40.00	114.81	Open To Flow (2)
91	50.51	116.44	Shut-In(2)
181	1101.34	117.81	End Shut-In(2)
182	2259.80	118.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP=504	0.00
63.00	O&Gcm 20o 40g 40m	0.88
63.00	G & Ocm 20g 20o 60m	0.88

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc.

14-16s-34w-Scott CO, KS

202 W. Main St.
Salem, IL 62881

Radnor #2-14

Job Ticket: 56537

DST#: 3

ATTN: Wes Hansen

Test Start: 2014.05.22 @ 05:10:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	GIP=504	0.000
63.00	O&Gcm 20o 40g 40m	0.884
63.00	G & Ocm 20g 20o 60m	0.884

Total Length: 126.00 ft

Total Volume: 1.768 bbl

Num Fluid Samples: 0

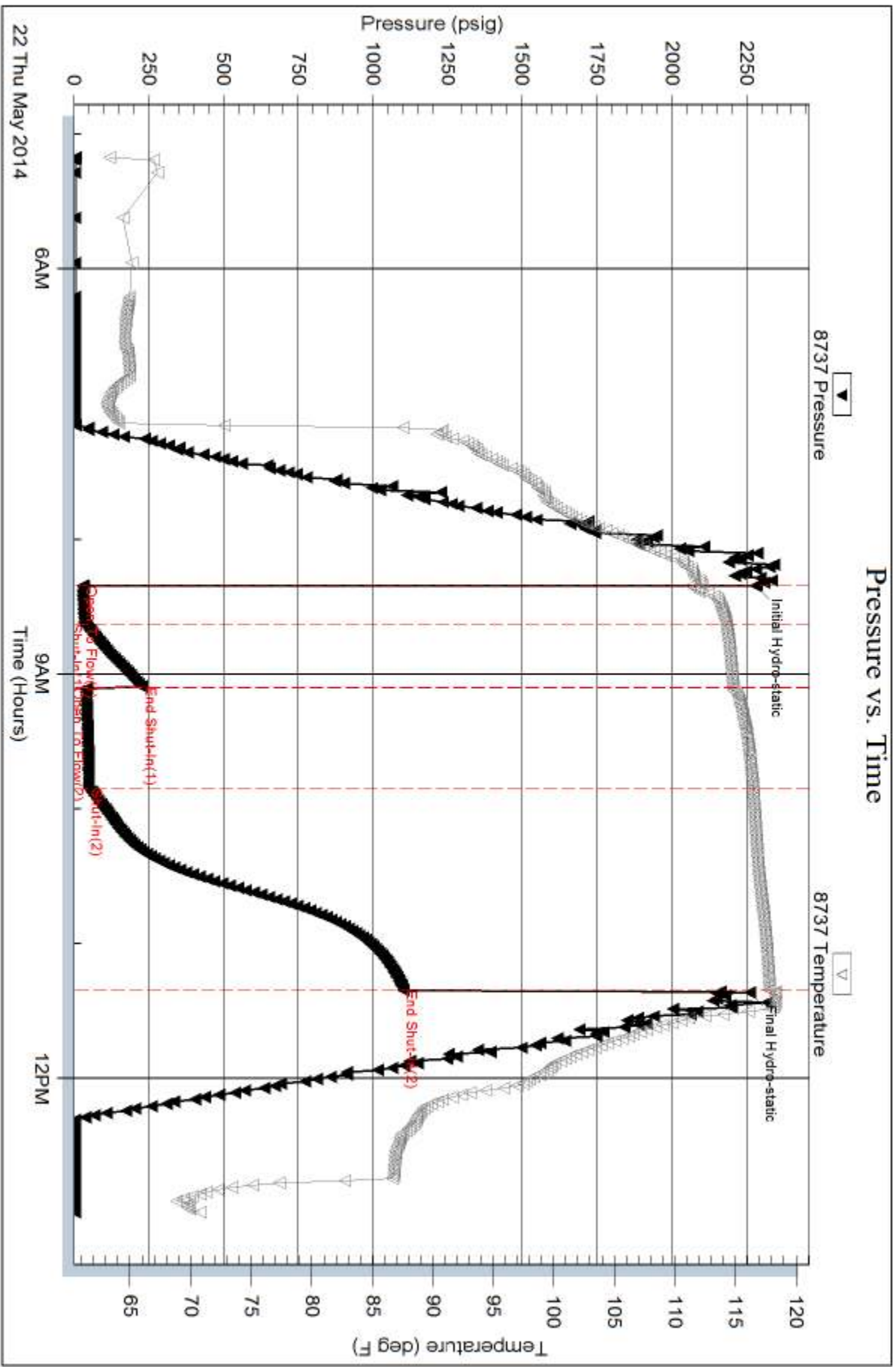
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co. Inc.

14-16s-34w-Scott CO, KS

202 W. Main St.
Salem, IL 62881

Radnor #2-14

Job Ticket: 56538

DST#: 4

ATTN: Wes Hansen

Test Start: 2014.05.23 @ 03:36:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:48:45

Time Test Ended: 11:47:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 65

Interval: 4638.00 ft (KB) To 4720.00 ft (KB) (TVD)

Reference Elevations: 3129.00 ft (KB)

Total Depth: 4720.00 ft (KB) (TVD)

3117.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8737 Outside

Press@RunDepth: 161.71 psig @ 4641.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.23

End Date:

2014.05.23

Last Calib.:

2014.05.23

Start Time:

03:36:15

End Time:

11:47:30

Time On Btm:

2014.05.23 @ 05:48:30

Time Off Btm:

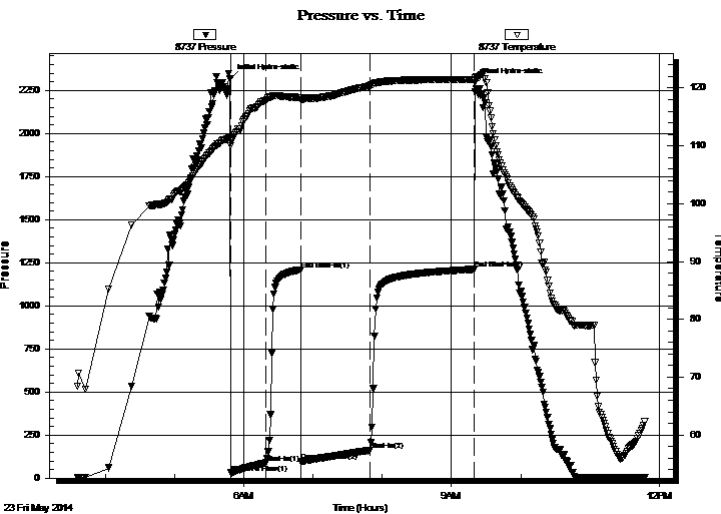
2014.05.23 @ 09:20:30

TEST COMMENT: IF: B.o.b. in 15 1/2 min.

IS: Bled off in 2 min.-No return

FF: B.o.b. in 20 min.

FS: Bled off in 2 min.-Surface Blow back-Built to 6in. of Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2318.95	111.47	Initial Hydro-static
1	30.05	110.02	Open To Flow (1)
31	88.50	117.86	Shut-In(1)
61	1209.81	118.36	End Shut-In(1)
62	96.45	118.00	Open To Flow (2)
121	161.71	120.45	Shut-In(2)
211	1211.80	121.41	End Shut-In(2)
212	2293.78	121.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP=562	0.00
5.00	G & Ocm 30g 30o 40m	0.07
126.00	G & Mco 25g 35m 40o	1.77
126.00	G & Ocm 10g 15o 75m	1.77

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co. Inc.

14-16s-34w-Scott CO, KS

202 W. Main St.
Salem, IL 62881

Radnor #2-14

Job Ticket: 56538

DST#: 4

ATTN: Wes Hansen

Test Start: 2014.05.23 @ 03:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	GIP=562	0.000
5.00	G & Ocm 30g 30o 40m	0.070
126.00	G & Mco 25g 35m 40o	1.767
126.00	G & Ocm 10g 15o 75m	1.767

Total Length: 257.00 ft Total Volume: 3.604 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 25.5 @ 86 deg

Pressure vs. Time

