

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1239229
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: _____

1239229

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Nichols 2-15
Doc ID	1239229

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Nichols 2-15
Doc ID	1239229

Tops

Name	Top	Datum
Base Anhydrite	2472	+662
Heebner	3988	-854
Lansing	4028	-894
Muncie Creek	4209	-1075
Shark Shale	4306	-1172
Hushpuckney	4349	-1215
Marmaton	4440	-1306
Pawnee	4522	-1388
L. Cherokee Shale	4603	-1469
Johnson	4646	-1512
Mississippian	4786	-1652



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 147234

Invoice Date: Nov 19, 2014

Page: 1

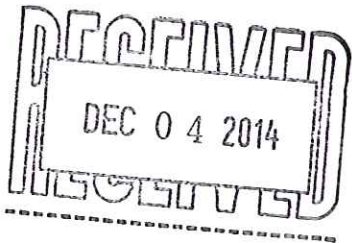
Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Shak	64764	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 19, 2014	12/19/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Nichols #2-15		
180.00	CEMENT MATERIALS	Class A Common	17.90	3,222.00
338.00	CEMENT MATERIALS	Gel	0.50	169.00
507.00	CEMENT MATERIALS	Chloride	1.10	557.70
194.60	CEMENT SERVICE	Cubic Feet Charge	2.48	482.61
403.95	CEMENT SERVICE	Ton Mileage Charge	2.75	1,110.86
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	Manifold Head Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	EQUIPMENT OPERATOR	Brandon Wilkinson		

INT



10501-5
KW

Subtotal	7,873.92
Sales Tax	321.82
Total Invoice Amount	8,195.74
Payment/Credit Applied	
TOTAL	8,195.74

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

\$ 1,968.48

ONLY IF PAID ON OR BEFORE
Dec 19, 2014

DW

ALLIED OIL & GAS SERVICES, LLC 064764

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Oakley

DATE <u>11-19-14</u>	SEC. <u>15</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>10:30am</u>	JOB START <u>12:00am</u>	JOB FINISH <u>2:30am</u>
LEASE <u>Nichols</u>		WELL # <u>2-15</u>		LOCATION <u>Perse 2E IN 1/2 W S + E: 20</u>		COUNTY <u>Scott</u>	STATE <u>Ks</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Southwind 717

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 26.8'

CASING SIZE 8 5/8 DEPTH 26.8'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 1611 BBL

OWNER Same

CEMENT AMOUNT ORDERED 180 SKS com 386cc

289cc

COMMON <u>180 SKS</u>	@ <u>17.90</u>	<u>3222.00</u>
POZMIX	@	
GEL <u>338#</u>	@ <u>1.50</u>	<u>169.00</u>
CHLORIDE <u>507#</u>	@ <u>1.10</u>	<u>557.70</u>
ASC	@	

EQUIPMENT

PUMP TRUCK # 431 CEMENTER Andrew Forstlund
HELPER Brandon Wilkinson

BULK TRUCK # 818 DRIVER Jean (TWS)

BULK TRUCK # _____ DRIVER _____

Material Total @ _____ 3,948.70

(987.18/25%)

HANDLING 194.64 cc/sk @ 2.48 482.60

MILEAGE 2.25 704/mile 8.88/mi 110.88

REMARKS:

TOTAL _____

Cement did circulate

Thank you

SERVICE

DEPTH OF JOB 26.8'

PUMP TRUCK CHARGE _____ 1512.25

EXTRA FOOTAGE @ _____

MILEAGE 45 miles @ 2.20 346.50

MANIFOLD head @ _____ 275.00

light vehicle @ 4.40 198.00

CHARGE TO: Shakespeare oil + Gas

STREET _____

CITY _____ STATE _____ ZIP _____

(981.30/25%) TOTAL 3,905.03

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 Sam Stapp

SIGNATURE Sam Stapp

SALES TAX (If Any) _____

TOTAL CHARGES 1,873.93

DISCOUNT 1,968.48 (25%) IF PAID IN 30 DAYS

5,905.44 Net.



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 147395
Invoice Date: Nov 29, 2014
Page: 1

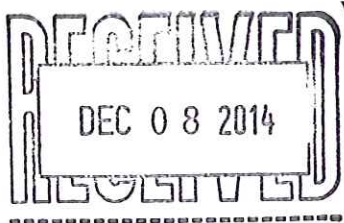
Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Shak	64851	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 29, 2014	12/29/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Nichols #2-15		
310.00	CEMENT MATERIALS	Gel	0.50	155.00
165.00	CEMENT MATERIALS	ASC	23.50	3,877.50
825.00	CEMENT MATERIALS	Gilsonite	0.98	808.50
116.00	CEMENT MATERIALS	CD-31	7.73	896.68
25.00	CEMENT MATERIALS	Defoamer	4.85	121.25
12.00	CEMENT MATERIALS	Super Flush	25.00	300.00
214.82	CEMENT SERVICE	Cubic Feet Charge	2.48	532.75
417.60	CEMENT SERVICE	Ton Mileage Charge	2.75	1,148.40
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 SERVICE	Rotator Rental	200.00	200.00
1.00	CEMENT SUPERVISOR	Andrew Forslund		
1.00	EQUIPMENT OPERATOR	Brandon Wilkinson		

INT



10502-5
KW

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

\$ 2,906.33

ONLY IF PAID ON OR BEFORE
Dec 29, 2014

Subtotal	11,625.33
Sales Tax	501.95
Total Invoice Amount	12,127.28
Payment/Credit Applied	
TOTAL	12,127.28

DW

ALLIED OIL & GAS SERVICES, LLC 064854

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Orfley

DATE <u>11-29-14</u>	SEC. <u>15</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>12:00 AM</u>	JOB START <u>3:30 AM</u>	JOB FINISH <u>4:30 AM</u>
LEASE <u>Nichols</u>	WELL# <u>2-15</u>	LOCATION <u>Pence 2E IN 1/4 W 1/4 S</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>E. INTD</u>				

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>4865'</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>4864'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>Port collar</u>	DEPTH <u>2454'</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>4/2'</u>
CEMENT LEFT IN CSG. <u>42'</u>	
PERFS.	
DISPLACEMENT <u>114126</u>	

EQUIPMENT		COMMON		
PUMP TRUCK # <u>431</u>	CEMENTER <u>Andrew Jirstrand</u>	POZMIX	@	
BULK TRUCK # <u>891</u>	HELPER <u>Brandon Williams</u>	GEL	@ <u>310</u>	<u>155.00</u>
BULK TRUCK #	DRIVER <u>Robert Anthony Jones</u>	CHLORIDE	@	
BULK TRUCK #	DRIVER	ASC	@ <u>16.5 stks</u>	<u>3877.50</u>
			@	
		<u>Gilsonite 825#</u>	@ <u>1.98</u>	<u>808.50</u>
		<u>CD-31 116#</u>	@ <u>7.73</u>	<u>896.68</u>
		<u>Defoamer 25#</u>	@ <u>4.85</u>	<u>1212.50</u>
		<u>Super Flush 1200lb</u>	@ <u>25.00</u>	<u>300.00</u>
		HANDLING <u>214.82 CY/FT</u>	@ <u>2.48</u>	<u>532.75</u>
		MILEAGE <u>2.25 ton/mile @ 9.05/ton</u>		<u>1148.10</u>

REMARKS:
Pump 12,000 Super Flush. Plug
Ret hole 30 stks. mix 135 stks
Down 5 1/2 casing. wash pump
and line clean. Release plug
Displace plug. 900# LEFT
1400# Land Plug. Float held.

Thank you

CHARGE TO: Shakespeare

STREET _____

CITY _____ STATE _____ ZIP _____

MEDICAL TOTAL		TOTAL
<u>1539.73</u>		<u>6,138.93</u>
SERVICE		
DEPTH OF JOB <u>4864'</u>	PUMP TRUCK CHARGE	<u>2765.25</u>
EXTRA FOOTAGE @		
MILEAGE <u>45 miles</u>	@ <u>7.70</u>	<u>346.50</u>
MANIFOLD heads @		<u>225.00</u>
Light vehicle @ <u>4.40</u>		<u>198.00</u>
Rotator @		<u>200.00</u>

(1366.60 / 20%) TOTAL 5466.10

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 Doug Roberts

SIGNATURE Doug Roberts
 Thanks

SALES TAX (if Any) _____

TOTAL CHARGES 11,625.33

DISCOUNT 2906.33 (25%) IF PAID IN 30 DAYS

8,718.99 Net



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 147607
Invoice Date: Dec 8, 2014
Page: 1

Federal Tax I.D.#: 20-8651475

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

Customer ID	Field Ticket #	Payment Terms	
Shak	64368	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Dec 8, 2014	1/7/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Nichols #2-15		
211.00	CEMENT MATERIALS	Class A Common	17.90	3,776.90
114.00	CEMENT MATERIALS	Pozmix	9.35	1,065.90
2,262.00	CEMENT MATERIALS	Gel	0.50	1,131.00
81.00	CEMENT MATERIALS	Flo Seal	2.97	240.57
566.34	CEMENT SERVICE	Cubic Feet Charge	2.48	1,404.52
1,059.74	CEMENT SERVICE	Ton Mileage Charge	2.75	2,914.29
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	George Grant		

INT



Subtotal	13,561.27
Sales Tax	506.47
Total Invoice Amount	14,067.74
Payment/Credit Applied	
TOTAL	14,067.74

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

\$ 3,390.32

ONLY IF PAID ON OR BEFORE
Jan 7, 2015

DW
10562-5
KW

ALLIED OIL & GAS SERVICES, LLC 064368

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley, TX

DATE <u>12-8-17</u>	SEC. <u>15</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>11:00am</u>	JOB START <u>11:30am</u>	JOB FINISH <u>12:30pm</u>
LEASE <u>Nichols</u>	WELL # <u>2-15</u>	LOCATION <u>Ponca 1/2 N, 3/4 E, 5th</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one)							

CONTRACTOR Wild West OWNER Some
TYPE OF JOB Port Collar

HOLE SIZE _____ T.D. _____	CEMENT AMOUNT ORDERED <u>500# 6 3/8 8' gel</u>
CASING SIZE <u>5 1/2</u> DEPTH _____	<u>1/4" floeal</u>
TUBING SIZE <u>2 7/8</u> DEPTH <u>2421</u>	
DRILL PIPE _____ DEPTH _____	
TOOL <u>Port Collar</u> DEPTH <u>2421</u>	
PRES. MAX _____ MINIMUM _____	
MEAS. LINE _____ SHOE JOINT _____	
CEMENT LEFT IN CSG. _____	
PERFS. _____	
DISPLACEMENT <u>9.0 bbl</u>	

EQUIPMENT			
PUMP TRUCK # <u>423/281</u>	CEMENTER <u>LaRue & Schulte</u>	<u>Floal 81#</u>	@ <u>2.97</u> <u>240.57</u>
BULK TRUCK # <u>818/287</u>	HELPER <u>Wayne McHugh</u>	<u>misc. tools</u>	@ _____ <u>Call 31</u>
BULK TRUCK # _____	DRIVER <u>Ricardo Martinez (TOD)</u>	<u>(10.53.09/258)</u>	@ _____
BULK TRUCK # _____	DRIVER <u>George Grant</u>		@ _____
		HANDLING <u>566.34.81</u>	@ <u>2.48</u> <u>1404.52</u>
		MILEAGE <u>23.55 x 45</u>	@ <u>2.95</u> <u>2774.31</u>

REMARKS: Test port collar 1200ft. Open Port Collar. Mix 325# cement. Close Port Collar. Test 1200ft. Remain 5' gels. Reverse clean. Cement did circulate.

		TOTAL _____
SERVICE		
DEPTH OF JOB <u>2421'</u>		
PUMP TRUCK CHARGE		<u>2483.57</u>
EXTRA FOOTAGE @ _____		
MILEAGE <u>MILCO 45</u>	@ <u>7.70</u>	<u>346.50</u>
MANIFOLD <u>MILCO 45</u>	@ <u>4.40</u>	<u>198.00</u>
	@ _____	
		TOTAL <u>7,346.92</u>

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

(10,36.73/258)

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 _____
SIGNATURE [Signature]

SALES TAX (If Any) _____
TOTAL CHARGES 13,561.29
DISCOUNT 3,390.30/258 IF PAID IN 30 DAYS
10,170.96 Net.

**Shakespeare Oil Company, Inc.
Nichols No.2-15
2200' FSL and 1700' FEL
SW NE NW SE
Sec 15 T16S R34W
Scott County, Kansas**

Geological Report
by

Macklin M. Armstrong, P.G.
License Number 743

Scale 1:240 Imperial

Well Name:	Nichols No. 2-15	
Surface Location:	Sec 15 T16S R34W	
Bottom Location:	2200' FSL and 1700' FEL	
API:	15-171-21110	
License Number:	7311	
Spud Date:	11/19/2014	Time: 5:30 PM
Region:	Scott County, Kansas	
Drilling Completed:	11/29/2014	Time: 4:42 AM
Surface Coordinates:		
Bottom Hole Coordinates:		
Ground Elevation:	3122.00ft	
K.B. Elevation:	3134.00ft	
Logged Interval:	3800.00ft	To: 4865.00ft
Total Depth:	4865.00ft	
Formation:	Mississippi	
Drilling Fluid Type:	Chemical/Fresh Water Gel	

OPERATOR

Company:	Shakespeare Oil Company, Inc.		
Address:	202 West Main Street Salem, Illinois 62881		
Contact Geologist:	Don Williams		
Contact Phone Nbr:	618-548-1585		
Well Name:	Nichols No. 2-15		
Location:	Sec 15 T16S R34W	API:	15-171-21110
Pool:	Oil	Field:	Radnor
State:	Kansas	Country:	USA

CONTRACTOR

Contractor: Southwind Drilling, Inc.
 Rig #: 70
 Rig Type: mud rotary
 Spud Date: 11/19/2014
 TD Date: 11/29/2014
 Rig Release: 11/30/2014

Time: 5:30 PM
 Time: 4:42 AM
 Time: 6:30 AM

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 101.060474741
 N/S Co-ord:
 E/W Co-ord:

Latitude: 38.662048082

ELEVATIONS

K.B. Elevation: 3134.00ft
 K.B. to Ground: 12.00ft

Ground Elevation: 3122.00ft

NOTES

Date	Depth at 7 am	Activity
11-19-14	MIRU	Spud at 5:30 pm
11-20-14	268	WOC
11-21-14	1887	Drilling
11-22-14	2766	Drilling
11-23-14	3412	Drilling
11-24-14	3814	Drilling
11-25-14	4242	Drilling
11-26-14	4480	CTCH for DST No. 1
11-27-14	4581	Drilling
11-28-14	4722	OB with DST No. 2
11-29-24	4865	Logging
11-30-24	4865	Set 5 1/2"

Surface Casing: 8 5/8" 23# at 268'
 Production Casing: 5 1/2" 15.5# at 4864'

Deviation: 268' - 3/4°
 4480' - 1 1/4°
 4865' - 2°

Bit Record:	Make	Size	Type	Depth In	Depth Out	Hours
	Reed	12 1/4"	Tooth	Surface	268	2 1/2
	Reed	7 7/8"	S52P	268	4865	143.5

Drill Stem Tests:

DST No. 1 4438 to 4480 Marmaton A
 15-30-45-90
 Recovery: 587' GIP
 40' CO (5%G, 95%O - 31° gravity)
 252' GMCO (10%G, 20%M, 70%O)
 252' GMCO (30%G, 20%M, 50%O)

IHP 2234 FHP 2115
 IFP 32-88 FFP 97-225
 ISIP 1113 FSIP 1012
 Temp 119°

DST No. 2 4622 to 4722 Johnson Zone
 30-30-45-60
 Recovery: 282' GIP
 93' OCGM (15%O, 30%G, 55%M)

IHP 2299 FHP 2286
 IFP 27-40 FFP 42-55

ISIP 600 FSIP 1161
Temp 114°








Formation	Sample	E-Log	Datum	Well 1	Well 2
Anhydrite	2453	2453	+681		
Base/Anhydrite	2473	2473	+661	+6	+4
Heebner	3989	3987	-853	+1	+9
Lansing	4030	4028	-894	0	+9
Muncie Creek	4211	4209	-1075	0	+10
Stark	4308	4306	-1172	-4	+7
Hushpuckney	4349	4348	-1214	-1	+10
Base/Kansas City	4388	4388	-1254	-4	+9
Marmaton	4446	4443	-1309	-3	+8
Pawnee	4525	4523	-1389	-5	+4
Myrick Station	4558	4557	-1423	-5	+5
Fort Scott	4578	4577	-1443	-3	+2
Cherokee Shale	4604	4603	-1469	-3	+7
Johnson Zone	4647	4646	-1512	-2	+10
Mississippi	4786	4786	-1652	-24	+3
Total Depth	4865	4865	-1731		

Well 1: Shakespeare Oil Company, Inc. Nichols No. 1-15 1390' FNL and 1850' FEL Sec 15 T16S R34W
Well 2: Shakespeare Oil Company, Inc. Radnor No. 1-14 1550' FSL and 1850' FWL Sec 14 T16S R34W

Pipe was set to further test the Marmaton A Zone.

Respectfully submitted,
Macklin M. Armstrong

ROCK TYPES

 Lmst fw7>	 shale, gry	 shale, red	 Sltst
 shale, grn	 Carbon Sh	 Ss	

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- Sandy
- △ Chert White

FOSSIL










- F Fossils < 20%
- Oolite
- ⊕ Oomoldic

TEXTURE

- C Chalky

OTHER SYMBOLS




MISC

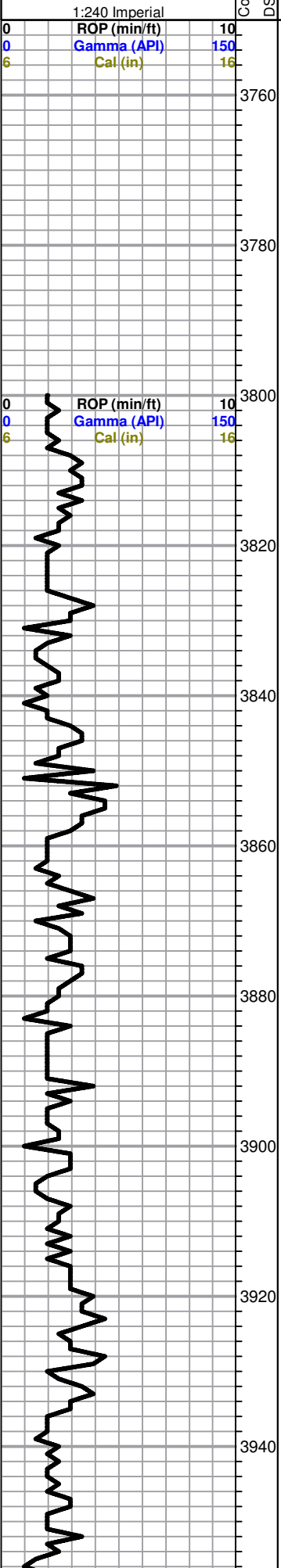
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-  Digital Photo
-  Document
-  Folder
-  Link
-  Vertical Log File
-  Horizontal Log File
-  Core Log File
-  Drill Cuttings Rpt

DST

-  DST Int
-  DST alt
-  Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1	ROP (min/ft)	Gamma (API)	Cal (in)	Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	Comment
									



Cored Interval
 DST Interval

Shakespeare Oil Company, Inc.
Nichols No. 2-15
2200' FSL and 1700' FEL
SW NE NW SE
Sec 15 T16S R34W
Scott County, Kansas

GL 3122 KB 3134

Mud Program:
 Mud Co/Service Mud
 Chemical Gel/Premix

Sample Cuttings:
 KGS Well Sample Library

Testing: Trilobite Testing

Electric Logs: Weatherford
 MPD/MDN
 MAI/MFE
 MML
 MSS

Deviation:
 268' - 3/4°
 4480' - 1 1/4°
 4865' - 2°

Ls-lt gry/gry f/mxln mhd/dns no por

Sh-gry/dk gry
 Ls-lt gry/gry f/xln dns no por

Sh-gry/dk gry

Ls-lt gry gry f/mxln mhd no por
 Ls-lt gry f/mxln mhd/dns sl fos no por
 Sh-gry/dk gry

Ls-lt gry f/mxln mhd sl fos fr inter xln por nsfo

Ls-lt gry f/mxln dns sl fos no por
 Sh-gry/dk gry

Ls-lt gry f/mxln mhd/dns sl fos no por

Sh-gry/dk gry
 Ls-lt gry f/mxln dns sl fos no por

Ls-crm/tan f/mxln mhd pr/fr inter xln por nsfo

Ls-crm/tan f/mxln dns no por
 Sh-gry/dk gry
 Ls-lt gry f/mxln dns no por

Sh-gry/dk gry

Sh-AA

Ls-lt gry f/mxln mhd/dns sl fos no por

Ls-AA

Ls-lt gry/tan f/mxln mhd/dns sl fos no por

Sh-gry/dk gry

Ls-tan/lt gry f/mxln dns sl fos no por
 Sh-blk carb

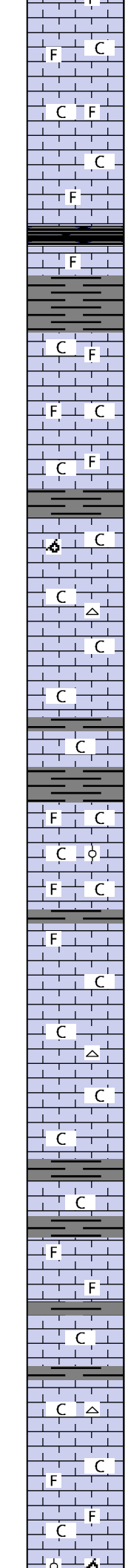
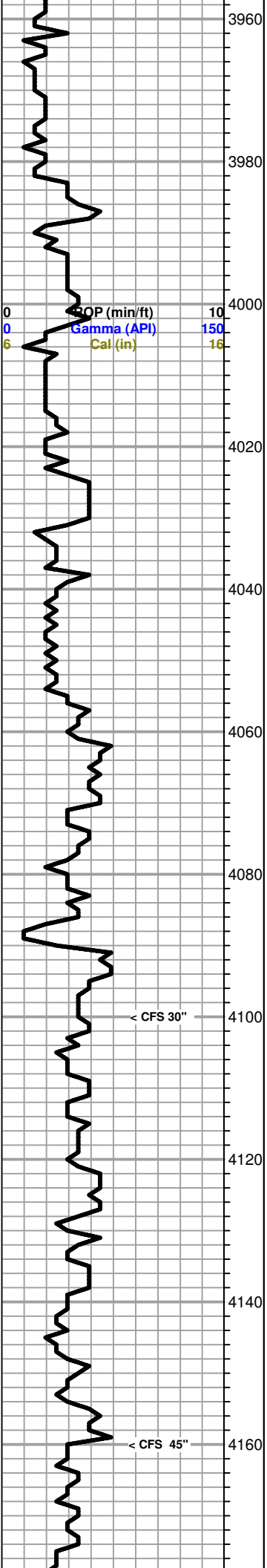
Ls-tan f/mxln mhd/dns sl clky no por
 Sh-gry/dk gry

Ls-tan fx/n mhd/dns sl clky sl fos no por sm Cht-crm fsh opaq

Ls-tan/lt gry f/mxln mhd/dns sl clky sl fos no por

Ls-tan/crm fxln mhd sl clky sl fos no por

Ls-AA



Ls-tan/lt gry f/mxln mhd sl clky sl fos no por sm Ls-tan fxln mhd with blk irregular shapped fos

Ls-AA

Ls-tan/lt gry/crm f/mxln mhd sl clky sl fos no por sm Ls-tan/lt gry fxln mhd with blk irregular shapped fos

Ls-tan/lt gry f/mxln mhd sl clky sl fos no por with sm Ls-wt fxln soft clky no por

Ls-lt gry/tan f/mxln dns sl fos no por

----- **Heebner 3989 -855** -----

Sh-blk carb

Ls-lt gry/tan f/mxln dns sl fos no por

Sh-gry/dk gry

Ls-crm/lt tan fxln mhd sl clky sl fos no por

Ls-AA

Ls-crm/tan fxln mhd sl clky sl fos no por

Ls-AA sm Ls-wt fxln soft clky no por

----- **Lansing 4030 -896** -----

Ls-crm/tan f/mxln mhd sl clky sl fos no por sm Ls-crm fxln mhd fos oom no por

Ls-tan/lt gry f/mxln mhd sl clky sl fos no por sm Cht-wt/crm fsh opac fos

Ls-AA

Ls-lt gy/crm f/mxln mhd/dns sl clky sl fos no por

Sh-gry/dk gry

Ls-lt gry/crm f/mxln dns sl clky no por

Sh-gry/dk gry

Ls-lt gry/crm/tan f/mxln mhd/dns sl clky fos no por

Ls-AA sm Ls-tan fxln mhd fos ool no por

Ls-lt gry/tan f/mxln mhd/dns sl clky sl fos no por

Sh-gry/dk gry

Ls-crm/lt gry mhd sl fos gd inter xln por nsfo

Ls-crm/lt tan fxln dns sl clky no por

Ls-AA

Ls-crm/lt gry f/mxln dns sl clky no por sm Cht-wt fsh opa

Ls-AA

Ls-crm/lt gry/tan f/mxln dns sl clky no por

Sh-gry/dk gry

Ls-crm/lt gry/tan f/mxln dns sl clky no por

Sh-gry/dk gry

Ls-lt gry/tan f/mxln dns sl fos no por

Sh-gry/dk gry

Ls-lt gry/tan f/mxln dns sl clky no por

Sh-gry/dk gry

Ls-lt gry/tan f/mxln mhd sl clky no por sm Cht-wt fsh opa

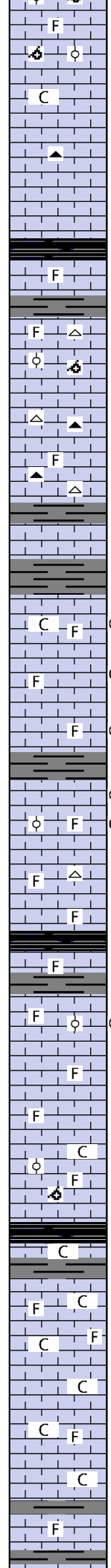
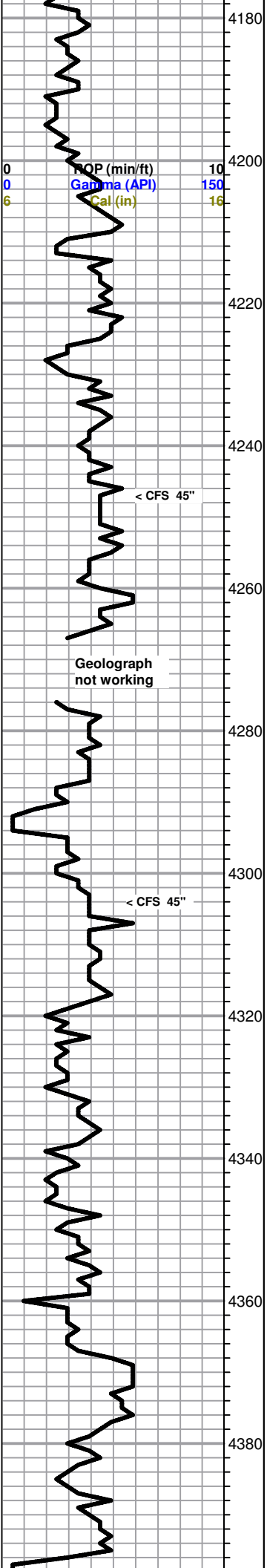
Ls-lt gry/tan f/mxln dns sl clky no por

Ls-crm/lt tan fxln mhd sl clky no por sm Ls-gry f/mxln mhd/dns fos no por

Ls-AA

Ls-tan/lt gry f/mxln mhd sl fos no por sm Ls-tan mhd fxln fos

All formation tops on this geological log have been correlated back to the electric log



ool and oom no por

Ls-AA

Ls-lt gry/crm fxln mhd sl clky no por

Ls-lt gry fxln mhd/dns no por sm Cht-gry/lt gry fsh opaq

Ls-lt gry fxln dns no por

----- **Muncie Creek 4211 -1077** -----

Sh-blk carb

Ls-lt gry/tan fxln dns sl fos no por

Sh-gry/dk gry

Ls-lt gry fxln dns sl fos no por sm Cht-wt/lt gry fsh opaq

Ls-tan fxln mhd fos ool and oom fr inter ool por nsfo

Ls-lt gry/tan fxln dns no por sm Cht-wt/lt gry fsh opaq

Ls-lt gry fxln dns no por and Ls-tan f/mxln mhd sl fos no por sm Cht-lt gry/wt fsh opaq

Ls-lt gry/gry f/mxln mhd/dns no por sm Cht-wt/lt gry fsh opaq

Sh-gry/dk gry

Ls-lt gry/tan f/mxln dns no por

Sh-gry/dk gry

Ls-lt gry/tan f/mxln mhd/dns sl fos no por sm Ls-tan fxln mhd sl clky pr inter xln vug por dk brn to blk spt stn fr cut vssfo on brk no odor

Ls-lt gry/tan f/mxln mhd sl fos no por sm Ls-tan fxln mhd pr/fr inter xln por dk brn spt stn gd cut fsfo on brk faint odor

Ls-tan/gry/brn f/mxln mhd/dns sl fos no por sm Ls-tan fxln mhd pr inter xln por dk brn spt stn sl cut vssfo on brk no odor

Sh-gry/dk gry

Ls-tan/gry f/mxln mhd no por sm Ls-tan fxln mhd fr inter xln por dk brn to blk spt stn sl cut vssfo on brk no odor

Ls-crm/lt gry fxln fos sm pcs sl ooc fr inter xln/vug por dk brn to blk spt stn sl cut fsfo on brk faint odor

Ls-tan/gry/brn f/mxln mhd/dns sl fos no por sm Cht-wt fsh opaq

Ls-tan/lt gry/lt brn f/mxln dns sl fos no por

----- **Stark 4308 -1174** -----

Ls-lt gry/gry f/mxln dns sl fos no por

Sh-gry/dk gry

Ls-lt gry/tan mhd sl clky fos sl ool no por sm Ls-tan fxln mhd fos ooc show of blk tarry oil

Ls-tan/lt gry f/mxln mhd sl fos no por

Ls-lt gry/crm f/mxln dns sl fos no por

Ls-lt gry/crm f/mxln mhd sl clky sl fos no por sm Ls-tan fxln mhd fos oom and ool no por

----- **Hushpuckney 4349 -1215** -----

Ls-crm/lt tan fxln mhd/dns sl clky no por

Sh-gry/dk gry

Ls-lt gry/crm f/mxln mhd sl clky sl fos no por sm Ls-wt fxln soft clky no por

Ls-lt gry/crm fxln dns sl clky no por

Ls-lt gry fxln dns sl clky no por

Ls-lt gry/crm fxln mhd sl fos no por

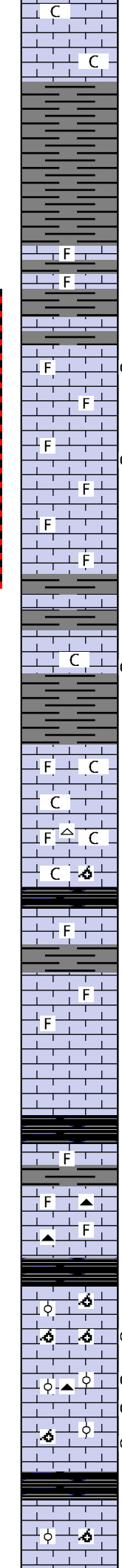
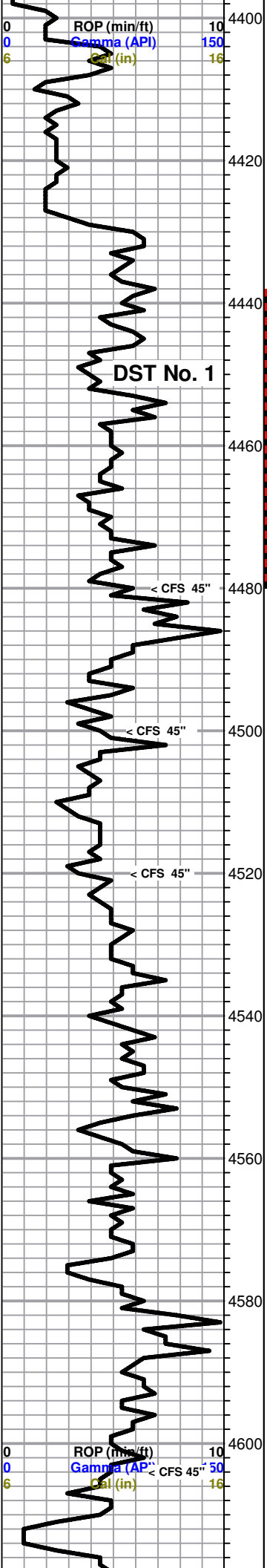
Ls-AA

----- **Base/Kansas City 4388 -1254** -----

Ls-lt gry/crm fxln dns sl fos no por

Sh-gry/dk gry

Mud Data at 4221'
 5:20 am 11-25-14
 Wt 89.2 Vis 54 WL 8.0
 pH 9 Chl 4300 Sol 6.1%
 YP 20 LCM 1#



Ls-tan f/mxln mhd clky fr inter xln por nsfo

Ls-tan/lt gry fxln dns sl clky no por

Sh-gry/dk gry

Sh-AA

Sh-AA

Ls-tan/gry f/mxln dns sl fos no por

Sh-gry/dk gry

Ls-tan/lt gry f/mxln dns sl fos no por

Sh-gry/dk gry

----- Marmaton 4446 -1312 -----

Ls-tan/lt gry mxln mhd fos fr inter fos por lt brn spt stn fr cut ssfo on brk

Ls-tan/lt gry f/mxln dns sl fos no por

Ls-tan/lt gry f/mxln mhd/dns sl fos no por sm Ls-tan (3 pcs) f/mxln mhd pr inter xln por lt brn spt stn sl cut ssfo on brk

Ls-tan/lt gry f/mxln mhd/dns sl fos no por

Ls-AA

Sh-gry/dk gry

Ls-lt gry/gry fxln dns no por

Sh-gry/dk gry

Ls-lt gry/gry fxln dns no por

Ls-crm/lt tan fxln mhd sl clky no por with 1 piece Ls-lt gry fxln mhd pr inter xln por lt brn to dk brn spt stn fr cut ssfo on brk

Sh-gry/dk gry

Ls-lt gry/tan fxln mhd/dns sl clky no por sm Ls-crm/tan frag mhd fos no por

Ls-crm/tan fxln mhd sl clky no por

Ls-lt gry/crm/tan fxln dns sl clky no por sm Cht-wt fsh opa with tan ool

Ls-AA sm Ls-tan/gry frag mhd fos sl oom no por

----- Pawnee 4525 -1391 -----

Ls-lt gry/crm/tan fxln mhd no por sm Ls-lt gry/gry frag mhd fos no por

Sh-gry/dk gry

Ls-lt gry/tan fxln dns sl fos no por

Ls-lt gry/tan fxln mhd sl fos no por

Ls-lt gry/tan fxln mhd/dns no por

Ls-lt gry/tan fxln dns no por

Sh-blk carb

----- Myrick Station 4558 -1424 -----

Ls-lt gry/tan brn fxln dns sl fos no por

Sh-gry/dk gry

Ls-gry/brn f/mxln dns sl fos no por sm Ls-tan fxln mhd fos sl oom no por and Cht-gry fsh opa

Ls-AA sm Cht-gry fsh opa

Sh-blk carb

----- Fort Scott 4578 -1444 -----

Ls-lt gry/gry f/mxln dns fos sl ool and oom no por

Ls-lt gry/gry fxln dns no por sm Ls-tan/brn fxln mhd fos oom pr/fr inter fos por brn sct stn sl cut vssfo on brk

Ls-lt gry/tan/gry fxln dns no por sm Ls-brn fxln mhd fos ool fr inter ool por brn sat stn sl cut ssfo on brk sm Cht-gry/brn fsh opa

Ls-lt gry/tan fxln mhd/dns no por sl Ls-tan/brn fxln mhd fos sl ool and oom pr inter fos por brn spt stn sl cut vssfo on brk

----- Cherokee Shale 4604 -1470 -----

Sh-blk carb

Ls-lt gry/gry fxln dns no por

Ls-lt gry/tan fxln mhd fos ool and oom gd inter ool por nsfo

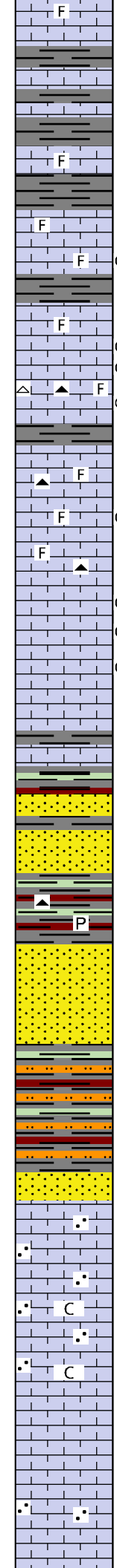
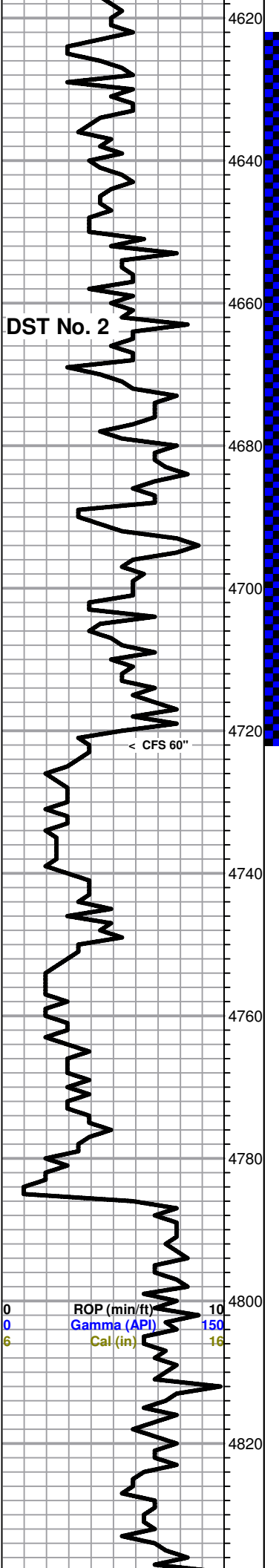
DST No. 1
4438 to 4480
15-30-45-90
1st Open: BOB in 4.5"
2nd Open: BOB in 4.5"
Recovery:
587' GIP
40' CGO (5%G, 95%O
31° gravity)
252' GMCO (10%G, 20%M
70%O)
252' GMCO (30%G, 20%M
50%O)
IHP 2234 FHP 2115
IFP 32-88 FFP 97-225
ISIP 1113 FSIP 1012
Temp 119°

Pipe strap at 4480'
Short 0.16'

Pulled 20 stand short trip at
4480', then cir for test 90"

Mud Data at 4480'
5:45 am 11-26-14
Wt 9.4 Vis 72 WL 8.0
pH 9 Chl 5600 Sol 7.4%
YP 23 LCM 2#

Mud Data at 4556'
4:45 am 11-27-14
Wt 9.3 Vis 54 WL 8.8
pH 9.5 Chl 6800 Sol 6.7%
YP 19 LCM 2#



Ls-lt gry/tan fxln dns sl fos no por

Sh-gry/dk gry
 Ls-lt gry/crm fxln dns no por
 Sh-gry/dk gry
 Ls-lt gry/crm fxln dns no por
 Sh-gry/dk gry

Ls-lt gry/tan/gry f/mxln dns sl fos no por
 Sh-gry/dk gry

----- **Johnson Zone 4650 -1516** -----

Ls-lt gry/gry/tan f/mxln mhd/dns sl fos no por

Ls-tan/gry/brn mxln dns fos no por sm Ls-brn (3 pcs) fxln mhd fr vug por dk brn spt stn sl cut ssfo on brk

Sh-gry/dk gry

Ls-lt gry/gry fxln to frag dns no por sm pcs highly fos sm pcs with blk fos

Ls-brn fxln mhd fr/gd vug por brn sct to sat stn fr cut ssfo on brk

Ls-AA

Ls-tan/gry/brn f/mln dns fos no por sm Cht-wt/gry/brn fsh opa and sm Ls-brn/tan (3 pcs) fxln mhd pr inter xln por brn spt stn sl cut vssfo

Sh-gry/dk gry

Ls-tan/gry/brn mxln dns fos no por sm Cht-gry/brn/tan fsh opa

Ls-tan/gry fxln mhd sl fos gd vug/xln por brn spt to sat stn gd cut fsfo on brk sl odor

Ls-tan/gry/brn f/mxln dns sl fos no por sm Cht-gry/brn fsh opa

Ls-tan/gry fxln mhd/dns sl fos no por sm Cht-AA

Ls-tan/brn fxln mhd fr vug/xln por brn spt stn gd cut fsfo on brk sl odor

Ls-AA

Ls-lt gry/gry fxln dns no por sm Ls-brn f/mxln mhd fr vug por brn spt stn sl cut ssfo on brk

Ls-lt gry f/mxln dns no por

Sh-gry/dk gry
 Ls-tan/gry fxln mhd no por
 Sh-gry/dk gry/gry grn/mar
 Ss-lt gry/grn fgrn sub ang tite cement
 Sh-gry/dk gry
 Ss-lt gry/grn fgrn sub ang tite cement

Sh-gry/grn/mar sm Cht-org fsh opa and Pyrite

Ss-lt gry/lt grn fgrn sub ang tite cement

Ss-AA

Sh-gry/grn/sm mar and Silt-lt gry/grn

Sh and Silt-AA

Sh and Silt-AA

Ss-lt gry/wt fgrn sub rnd to rnd fri

----- **Mississippi 4786 -1652** -----

Ls-wt/crm fxln to sl gran mhd/dns no por

Ls-AA

Ls-crm/wt fgran mhd/dns sl clky no por

Ls-AA

Ls-crm/lt gry fxln mhd/ns no por

Ls-AA

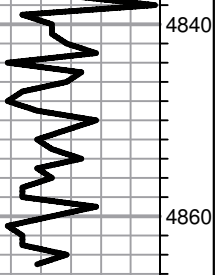
Ls-crm/lt tan fxln to sl gran mhd/dns no por

Ls-lt arv/crm fxln dns no por

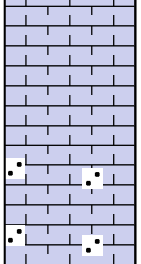
DST No. 2
 4622 to 4722
 30-30-45-60
 1st Open: Fair blow, building to 6"
 2nd Open: BOB in 23"
 Recovery: 282' GIP
 93' OCGM (15%O, 30%G 55%M)
 IHP 2299 FHP 2286
 IFP 27-40 FFP 42-55
 ISIP 600 FSIP 1161
 Temp 114°

Pulled 15 stand short trip at 4722', then cir for test 60"

Mud Data at 4722'
 8:30 am 11-28-14
 Wt 9.3 Vis 40 WL 8.0
 pH 8.5 Chl 8000 Sol 6.6%
 YP 8 LCM 1#



4840
4860
4880
4900



Ls-lt gry/crm fxln mhd/dns no por

Ls-AA


Ls-lt gry/crm fxln to fgran mhd/dns no por


Ls-AA


----- RTD 4865 -1731 -----

Finished drilling at 4:42 am on 11-29-14. Circulated for log 60 minutes.

Finished logging at 1:40 pm on 11-29-14

 Shakespeare Nichols 2-15 dst 1-1.jpg

 Shakespeare Nichols 2-15 dst 2-1.jpg

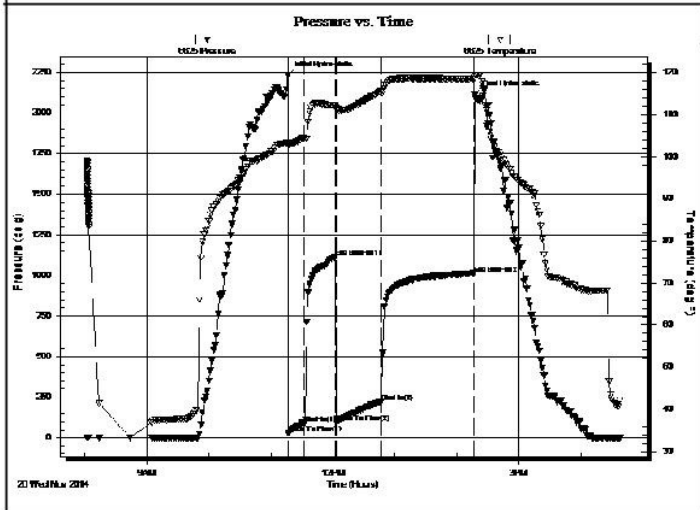
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT							
	<table style="width:100%;"> <tr> <td style="width:50%;">Shakespeare Oil Co Inc.</td> <td style="width:50%; text-align: right;">15-16s-34w Scott County</td> </tr> <tr> <td>202 W Main St Salem IL, 62881</td> <td style="text-align: right;">Nichols 2-15</td> </tr> <tr> <td>ATTN: Mac Armstrong</td> <td style="text-align: right;">Job Ticket: 58634 DST#: 1</td> </tr> <tr> <td></td> <td style="text-align: right;">Test Start: 2014.11.26 @ 08:02:00</td> </tr> </table>	Shakespeare Oil Co Inc.	15-16s-34w Scott County	202 W Main St Salem IL, 62881	Nichols 2-15	ATTN: Mac Armstrong	Job Ticket: 58634 DST#: 1	
Shakespeare Oil Co Inc.	15-16s-34w Scott County							
202 W Main St Salem IL, 62881	Nichols 2-15							
ATTN: Mac Armstrong	Job Ticket: 58634 DST#: 1							
	Test Start: 2014.11.26 @ 08:02:00							

GENERAL INFORMATION:

Formation: Marmaton	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: 0.00 ft (KB)	Tester: Justin Harris
Time Tool Opened: 11:17:00	Unit No: 58
Time Test Ended: 16:38:30	
Interval: 4438.00 ft (KB) To 4480.00 ft (KB) (TVD)	Reference Elevations: 3134.00 ft (KB)
Total Depth: 4480.00 ft (KB) (TVD)	3122.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Poor
	KB to GR/CF: 12.00 ft

Serial #: 6625	Outside				
Press@RunDepth: 224.54 psig @ 4476.00 ft (KB)	Capacity: 8000.00 psig				
Start Date: 2014.11.26	End Date: 2014.11.26	Last Calib.: 2014.11.26			
Start Time: 08:02:01	End Time: 16:38:30	Time On Btm: 2014.11.26 @ 11:16:30			
		Time Off Btm: 2014.11.26 @ 14:17:30			


TEST COMMENT: 15: B.O.B in 4 1/2 mins.
 30: Weak surface blow.
 45: B.O.B in 4 1/2 mins.
 90: Weak surface blow.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.90	103.27	Initial Hydro-static
1	31.49	102.84	Open To Flow (1)
16	88.20	104.60	Shut-In(1)
46	1112.90	112.08	End Shut-In(1)
47	97.02	111.64	Open To Flow (2)
91	224.54	115.48	Shut-In(2)
180	1012.27	118.42	End Shut-In(2)
181	2115.02	118.97	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
252.00	gmco 30g 20m 50o	3.53
252.00	gmco 10g 20m 70o	3.53
40.00	clean oil 5g 95o	0.56
0.00	GIP 587	0.00

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

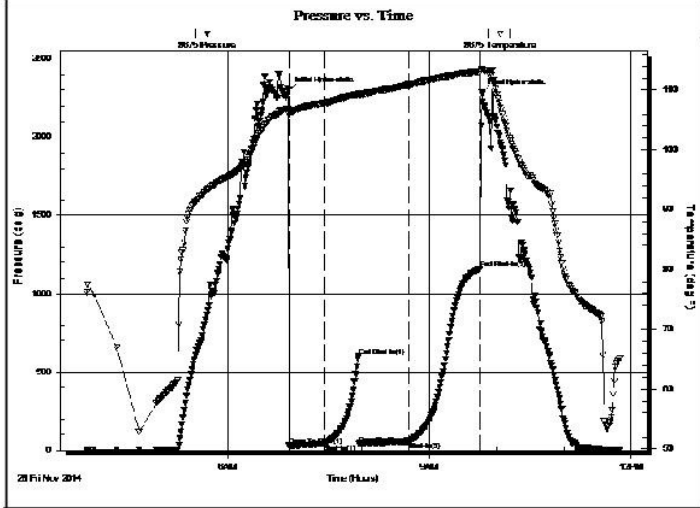
 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Shakespeare Oil Co Inc. 202 W Main St Salem IL, 62881 ATTN: Mac Armstrong	15-16s-34w Scott County Nichols 2-15 Job Ticket: 58505 DST#: 2 Test Start: 2014.11.28 @ 03:54:00

GENERAL INFORMATION:

Formation: Johnson Zone	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: 0.00 ft (KB)	Tester: Jace McKinney
Time Tool Opened: 06:54:45	Unit No: 75
Time Test Ended: 11:50:45	Reference Elevations: 3134.00 ft (KB)
Interval: 4622.00 ft (KB) To 4722.00 ft (KB) (TVD)	3122.00 ft (CF)
Total Depth: 4722.00 ft (KB) (TVD)	KB to GR/CF: 12.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Poor

Serial #: 8675	Inside	Capacity: 8000.00 psig
Press@RunDepth: 55.31 psig @ 4639.00 ft (KB)	Start Date: 2014.11.28	Last Calib.: 2014.11.28
Start Time: 03:54:15	End Date: 2014.11.28	Time On Btm: 2014.11.28 @ 06:54:30
	End Time: 11:50:45	Time Off Btm: 2014.11.28 @ 09:47:00

TEST COMMENT: Built to 6" blow
 Bled off for 3 min, No return blow
 B.O.B. in 23 min.
 Bled off for 5 min, No return blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.91	106.91	Initial Hydro-static
1	26.93	105.90	Open To Flow (1)
32	40.38	107.80	Shut-In(1)
63	599.90	109.37	End Shut-In(1)
63	42.05	109.20	Open To Flow (2)
107	55.31	110.89	Shut-In(2)
172	1160.97	113.09	End Shut-In(2)
173	2286.46	113.52	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
0.00	282 Feet Gas In Pipe	0.00
93.00	ocgm 15%O 30%G 55%M	1.30

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



DRILL STEM TEST REPORT

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

202 W Main St
Salem IL 62881

ATTN: Mac Armstrong

Nichols #2-15

15-16s-34w Scott,KS

Start Date: 2014.11.26 @ 08:02:00

End Date: 2014.11.26 @ 16:38:30

Job Ticket #: 58634 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.28 @ 16:51:54



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co Inc.

15-16s-34w Scott,KS

202 W Main St
Salem IL 62881

Nichols #2-15

Job Ticket: 58634

DST#: 1

ATTN: Mac Armstrong

Test Start: 2014.11.26 @ 08:02:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:17:00

Time Test Ended: 16:38:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 58

Interval: 4438.00 ft (KB) To 4480.00 ft (KB) (TVD)

Reference Elevations: 3134.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

3122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 6625 Outside

Press@RunDepth: 224.54 psig @ 4476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.26

End Date:

2014.11.26

Last Calib.:

2014.11.26

Start Time: 08:02:01

End Time:

16:38:30

Time On Btm:

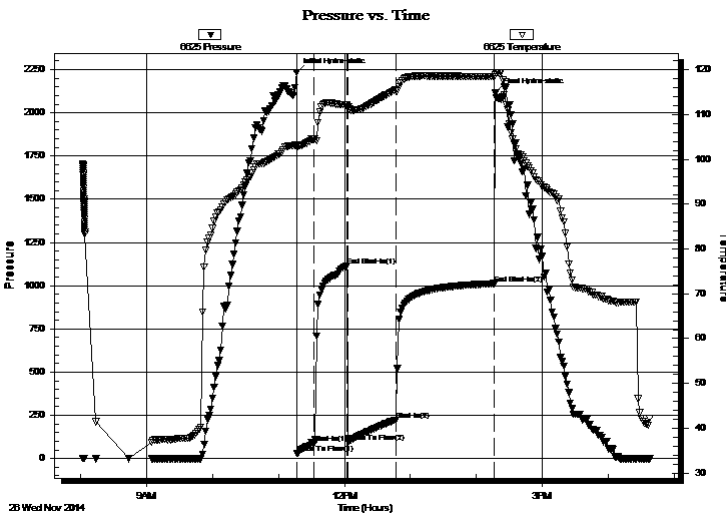
2014.11.26 @ 11:16:30

Time Off Btm:

2014.11.26 @ 14:17:30

TEST COMMENT: 15: B.O.B in 4 1/2 mins.
30: Weak surface blow .
45: B.O.B in 4 1/2 mins.
90: Weak surface blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.90	103.27	Initial Hydro-static
1	31.49	102.84	Open To Flow (1)
16	88.20	104.60	Shut-In(1)
46	1112.90	112.08	End Shut-In(1)
47	97.02	111.64	Open To Flow (2)
91	224.54	115.48	Shut-In(2)
180	1012.27	118.42	End Shut-In(2)
181	2115.02	118.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
252.00	gmco 30g 20m 50o	3.53
252.00	gmco 10g 20m 70o	3.53
40.00	clean oil 5g 95o	0.56
0.00	GIP 587'	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Shakespeare Oil Co Inc.

15-16s-34w Scott,KS

202 W Main St
Salem IL 62881

Nichols #2-15

Job Ticket: 58634

DST#: 1

ATTN: Mac Armstrong

Test Start: 2014.11.26 @ 08:02:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:17:00

Time Test Ended: 16:38:30

Interval: 4438.00 ft (KB) To 4480.00 ft (KB) (TVD)

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 58

Reference Elevations: 3134.00 ft (KB)

3122.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8319

Press@RunDepth: psig @ ft (KB)

Start Date: 2014.11.26

End Date:

2014.11.26

Capacity: 8000.00 psig

Last Calib.:

2014.11.26

Start Time: 08:02:01

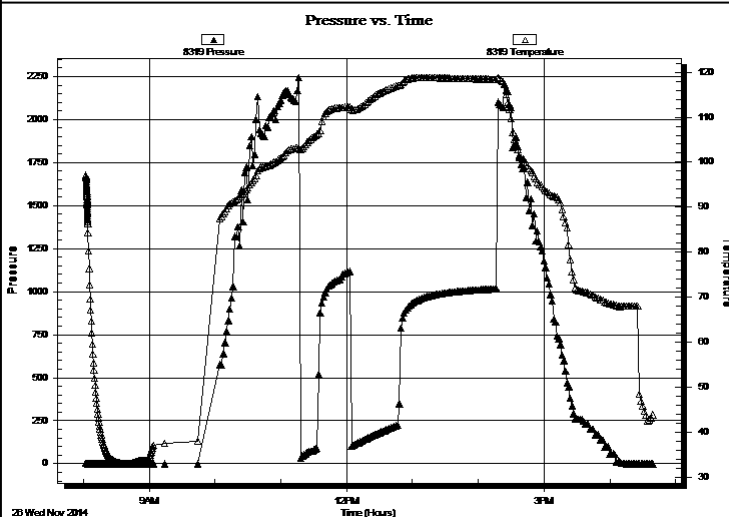
End Time:

16:39:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 15: B.O.B in 4 1/2 mins.
30: Weak surface blow.
45: B.O.B in 4 1/2 mins.
90: Weak surface blow.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
252.00	gmco 30g 20m 50o	3.53
252.00	gmco 10g 20m 70o	3.53
40.00	clean oil 5g 95o	0.56
0.00	GIP 587'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co Inc.

15-16s-34w Scott,KS

202 W Main St
Salem IL 62881

Nichols #2-15

Job Ticket: 58634

DST#: 1

ATTN: Mac Armstrong

Test Start: 2014.11.26 @ 08:02:00

Tool Information

Drill Pipe:	Length: 4441.00 ft	Diameter: 3.80 inches	Volume: 62.30 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4438.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4411.00	
Shut In Tool	5.00			4416.00	
Hydraulic tool	5.00			4421.00	
Jars	5.00			4426.00	
Safety Joint	3.00			4429.00	
Packer	5.00			4434.00	28.00 Bottom Of Top Packer
Packer	4.00			4438.00	
Stubb	1.00			4439.00	
Perforations	4.00			4443.00	
Change Over Sub	1.00			4444.00	
Drill Pipe	31.00			4475.00	
Change Over Sub	1.00			4476.00	
Recorder	0.00	6625	Outside	4476.00	
Recorder	0.00	8679	Inside	4476.00	
Bullnose	4.00			4480.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co Inc.

15-16s-34w Scott,KS

202 W Main St
Salem IL 62881

Nichols #2-15

Job Ticket: 58634

DST#: 1

ATTN: Mac Armstrong

Test Start: 2014.11.26 @ 08:02:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 72.00 sec/qt
Water Loss: 7.98 in³
Resistivity: ohm.m
Salinity: 5600.00 ppm
Filter Cake: 2.00 inches

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

Oil API: 31 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	gmco 30g 20m 50o	3.535
252.00	gmco 10g 20m 70o	3.535
40.00	clean oil 5g 95o	0.561
0.00	GIP 587'	0.000

Total Length: 544.00 ft Total Volume: 7.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

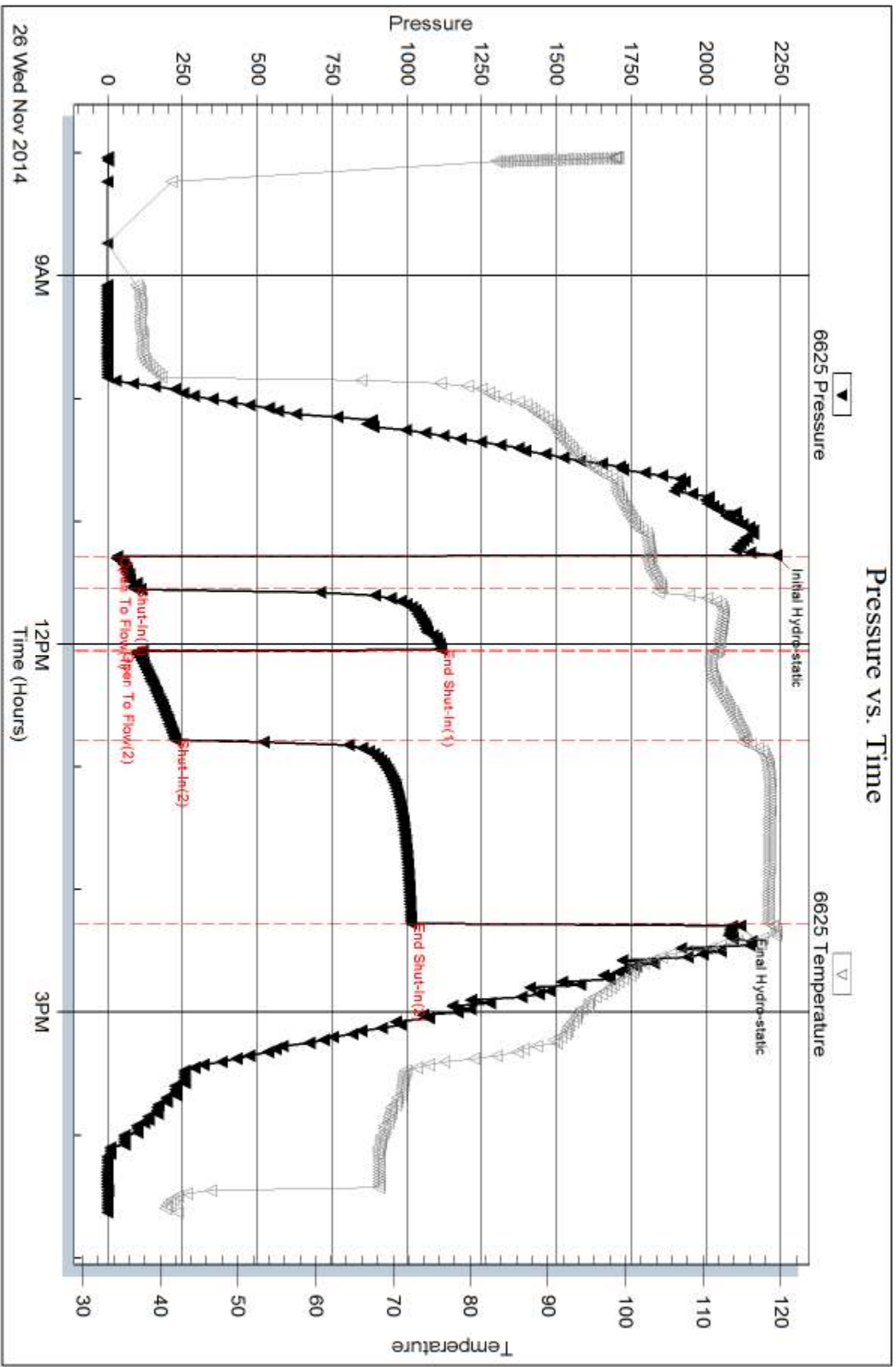
Recovery Comments:

Serial #: 6625

Outside Shakespeare Oil Co Inc.

Nichols #2-15

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59634

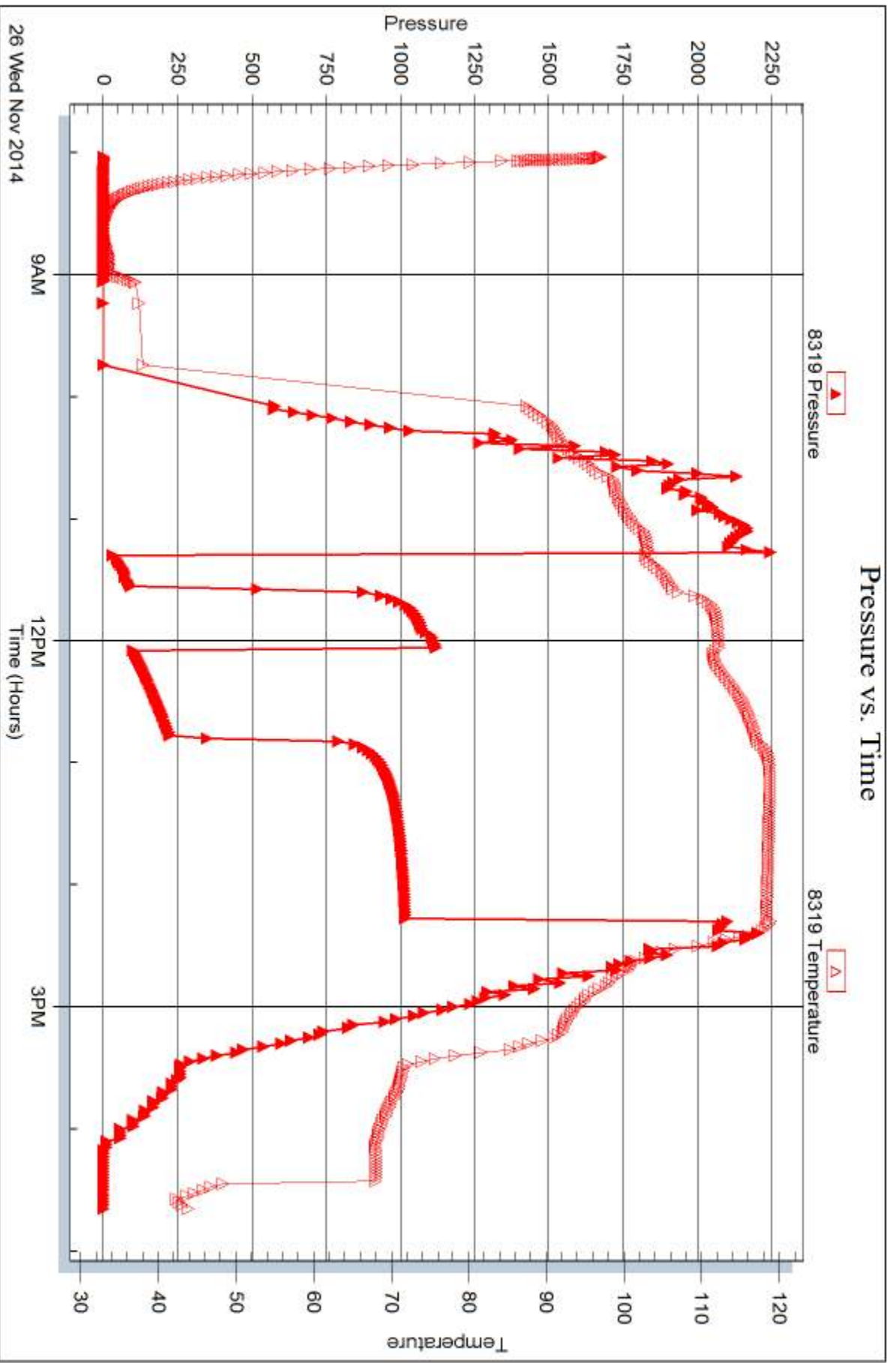
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Serial #: 8319

Shakespeare Oil Co Inc.

Nichols #2-15

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 58634

Printed: 2014.11.28 @ 16:51:55



DRILL STEM TEST REPORT

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

202 W Main St
Salem IL 62881

ATTN: Mac Armstrong

Nichols #2-15

15-16s-34w Scott,KS

Start Date: 2014.11.28 @ 03:54:00

End Date: 2014.11.28 @ 11:50:45

Job Ticket #: 58505 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.28 @ 16:51:06



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co Inc.

15-16s-34w Scott,KS

202 W Main St
Salem IL 62881

Nichols #2-15

Job Ticket: 58505

DST#: 2

ATTN: Mac Armstrong

Test Start: 2014.11.28 @ 03:54:00

GENERAL INFORMATION:

Formation: **Johnson Zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:54:45

Time Test Ended: 11:50:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4622.00 ft (KB) To 4722.00 ft (KB) (TVD)

Reference Elevations: 3134.00 ft (KB)

Total Depth: 4722.00 ft (KB) (TVD)

3122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 8675

Inside

Press@RunDepth: 55.31 psig @ 4639.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.28

End Date:

2014.11.28

Last Calib.:

2014.11.28

Start Time: 03:54:15

End Time:

11:50:45

Time On Btm:

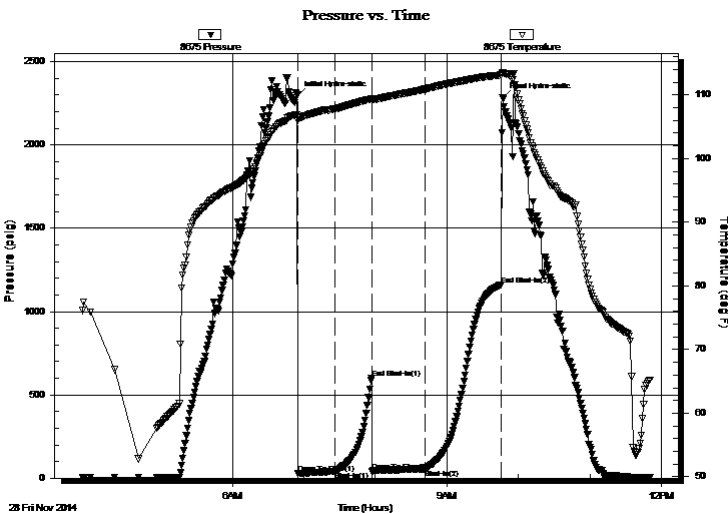
2014.11.28 @ 06:54:30

Time Off Btm:

2014.11.28 @ 09:47:00

TEST COMMENT: Built to 6" blow
Bled off for 3 min, No return blow
B.O.B. in 23 min.
Bled off for 5 min, No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.91	106.91	Initial Hydro-static
1	26.93	105.90	Open To Flow (1)
32	40.38	107.80	Shut-In(1)
63	599.90	109.37	End Shut-In(1)
63	42.05	109.20	Open To Flow (2)
107	55.31	110.89	Shut-In(2)
172	1160.97	113.09	End Shut-In(2)
173	2286.46	113.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	282' GIP	0.00
93.00	ocgm 15%O 30%G 55%M	1.30

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co Inc.
202 W Main St
Salem IL 62881
ATTN: Mac Armstrong

15-16s-34w Scott,KS
Nichols #2-15
Job Ticket: 58505 **DST#: 2**
Test Start: 2014.11.28 @ 03:54:00

GENERAL INFORMATION:

Formation: **Johnson Zone**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 06:54:45 Tester: Jace McKinney
Time Test Ended: 11:50:45 Unit No: 75
Interval: 4622.00 ft (KB) To 4722.00 ft (KB) (TVD) Reference Elevations: 3134.00 ft (KB)
Total Depth: 4722.00 ft (KB) (TVD) 3122.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 12.00 ft

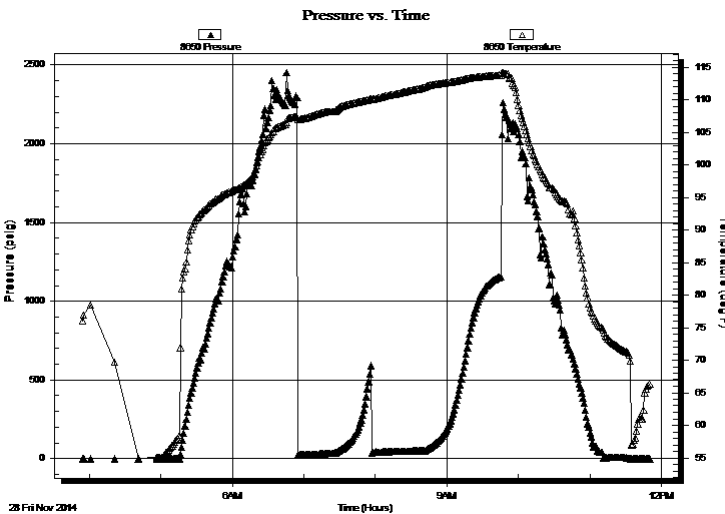
Serial #: 8650

Outside

Press@RunDepth: psig @ 4639.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.11.28 End Date: 2014.11.28 Last Calib.: 2014.11.28
Start Time: 03:54:15 End Time: 11:50:15 Time On Btm:
Time Off Btm:

TEST COMMENT: Built to 6" blow
Bled off for 3 min, No return blow
B.O.B. in 23 min.
Bled off for 5 min, No return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	282' GIP	0.00
93.00	ocgm 15%O 30%G 55%M	1.30

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Shakespeare Oil Co Inc.

15-16s-34w Scott,KS

202 W Main St
Salem IL 62881

Nichols #2-15

Job Ticket: 58505

DST#: 2

ATTN: Mac Armstrong

Test Start: 2014.11.28 @ 03:54:00

Tool Information

Drill Pipe:	Length: 4598.30 ft	Diameter: 3.80 inches	Volume: 64.50 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 64.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.80 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4622.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.00 ft			
Tool Length:	127.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4595.50	
Shut In Tool	5.00			4600.50	
Hydraulic tool	5.00			4605.50	
Jars	5.00			4610.50	
Safety Joint	2.50			4613.00	
Packer	5.00			4618.00	27.50 Bottom Of Top Packer
Packer	4.00			4622.00	
Stubb	1.00			4623.00	
Perforations	15.00			4638.00	
Change Over Sub	1.00			4639.00	
Recorder	0.00	8675	Inside	4639.00	
Recorder	0.00	8650	Outside	4639.00	
Drill Pipe	64.00			4703.00	
Change Over Sub	1.00			4704.00	
Perforations	14.00			4718.00	
Bullnose	4.00			4722.00	100.00 Bottom Packers & Anchor
Total Tool Length:	127.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co Inc.

15-16s-34w Scott,KS

202 W Main St
Salem IL 62881

Nichols #2-15

Job Ticket: 58505

DST#: 2

ATTN: Mac Armstrong

Test Start: 2014.11.28 @ 03:54:00

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: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	282' GIP	0.000
93.00	ocgm 15%O 30%G 55%M	1.305

Total Length: 93.00 ft

Total Volume: 1.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

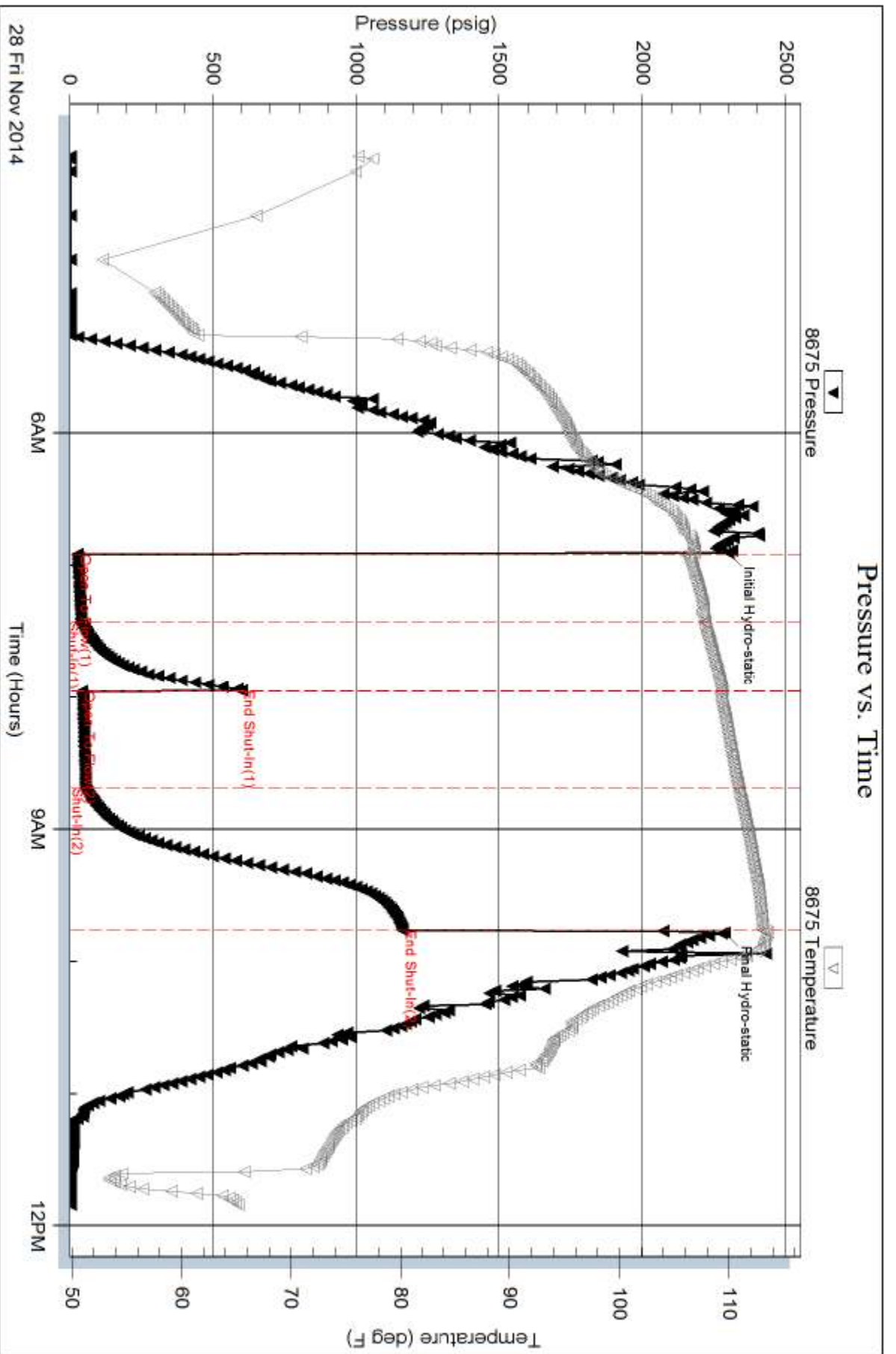
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Inside

Shakespeare Oil Co Inc.

Nichols #2-15

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58505

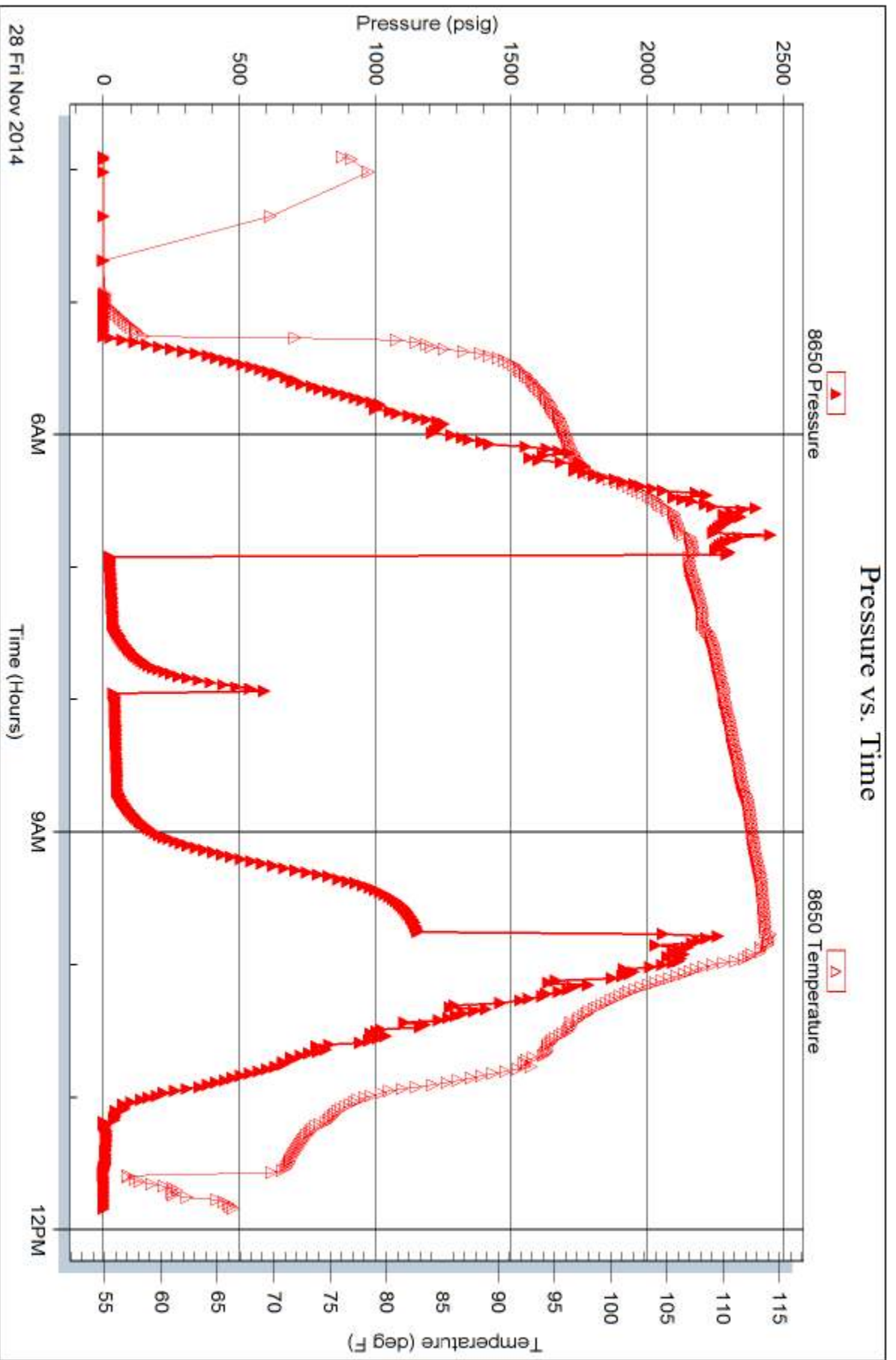
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Serial #: 8650

Outside Shakespeare Oil Co Inc.

Nichols #2-15

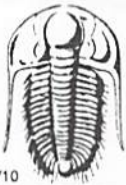
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 58505

Printed: 2014.11.28 @ 16:51:07



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58634

4/10

Well Name & No. Nichols 2-15 Test No. 1 Date 11-26-14
 Company Snakepoare oil Company Inc Elevation 3134 KB 3122 GL
 Address 202 W Main ST Salem IL 62881
 Co. Rep / Geo. Mac Armstrong Rig Southwind #70
 Location: Sec. 15 Twp. 16s Rge. 34W Co. Scott State KS

Interval Tested 4438 4480 Zone Tested Marmaton
 Anchor Length 42 Drill Pipe Run 4441 Mud Wt. 9.4
 Top Packer Depth 4434 Drill Collars Run 0 Vis 72
 Bottom Packer Depth 4438 Wt. Pipe Run 0 WL 8.0
 Total Depth 4480 Chlorides 5600 ppm System LCM 2

Blow Description 15 B.O.B in 4 1/2 min
30 Weak surface blow
45 B.O.B in 4 1/2 min
90 Weak surface Blow

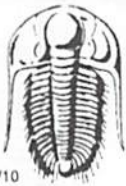
Rec	Feet of	%gas	%oil	%water	%mud
<u>252</u>	<u>gmco</u>	<u>30</u>	<u>50</u>	<u>20</u>	<u>0</u>
<u>252</u>	<u>gmco</u>	<u>10</u>	<u>70</u>	<u>20</u>	<u>0</u>
<u>40</u>	<u>clean oil</u>	<u>5</u>	<u>95</u>	<u>0</u>	<u>0</u>
<u> </u>	<u>GIP 587'</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Rec Total 544 BHT 118 Gravity 31 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2234 Test 1250 T-On Location 7:20
 (B) First Initial Flow 32 Jars 250 T-Started 8:02
 (C) First Final Flow 88 Safety Joint 75 T-Open 11:16
 (D) Initial Shut-In 113 Circ Sub N/C T-Pulled 14:16
 (E) Second Initial Flow 97 Hourly Standby T-Out 14:39
 (F) Second Final Flow 225 Mileage 48 RT 74.40
 (G) Final Shut-In 1012 Sampler
 (H) Final Hydrostatic 2015 Straddle

Shale Packer 250 Ruined Shale Packer
 Extra Packer Ruined Packer
 Extra Recorder Extra Copies
 Initial Open 15 Day Standby Sub Total 0
 Initial Shut-In 30 Accessibility Total 1899.40
 Final Flow 45 Sub Total 1899.40 MP/DST Disc't
 Final Shut-In 90

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58505

Well Name & No. Nichols 2-15 Test No. 2 Date 11/28/14
 Company Shakespeare Oil Company, Inc Elevation ~~62881~~ 3134 KB 3122 GL
 Address 202 W Main St, Salem IL, 62881-1519
 Co. Rep / Geo. Max Armstrong Rig Southwing Rig 70
 Location: Sec. 15 Twp. 11es Rge. 34w Co. Scott County State IL

Interval Tested 4622-4722 Zone Tested Johnson Zone
 Anchor Length 100 Drill Pipe Run 4598.30 Mud Wt. 9.3
 Top Packer Depth 4618 Drill Collars Run _____ Vis 54
 Bottom Packer Depth 4622 Wt. Pipe Run _____ WL 8.8
 Total Depth 4722 Chlorides 6,800 ppm System LCM 2#

Blow Description Built to 6" below
Bled off for 3 min. No return below
B.O.B. in 23 min

Bled off for 5 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>282 feet Gas In Pipe</u>				
<u>93</u>	<u>000M</u>	<u>30</u>	<u>15</u>	<u>55</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 93 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 2,299 Test 1250 T-On Location 02:45
 (B) First Initial Flow 27 Jars 250 T-Started 03:54
 (C) First Final Flow 40 Safety Joint 75 T-Open 06:57
 (D) Initial Shut-In 600 Circ Sub N/C T-Pulled 09:42
 (E) Second Initial Flow 42 Hourly Standby _____ T-Out 11:50
 (F) Second Final Flow 55 Mileage 48 x 2 74.40 + 74.40 Comments Had to short trip
 (G) Final Shut-In 1,161 Sampler _____
 (H) Final Hydrostatic 2,286 Straddle _____ Ruined Shale Packer _____
 Shale Packer 250 Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 30 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1973.80
 Final Shut-In 60 Accessibility _____ MP/DST Disc't _____
 Sub Total 1973.80

Approved By _____ Our Representative [Signature]
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