



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1197794
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
-----------------------------------	-----------------	---

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: _____

1197794

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

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

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Janzen 3-36
Doc ID	1197794

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Janzen 3-36
Doc ID	1197794

Tops

Name	Top	Datum
Base Anhydrite	2447	+667
Heebner	3976	-862
Lansing	4020	-906
Muncie Creek	4201	-1087
Stark Shale	4300	-1186
Hushpuckney	4348	-1234
Pawnee	4533	-1419
L. Cherokee Shale	4612	-1498
Johnson	4656	-1542
Mississippian	4790	-1676



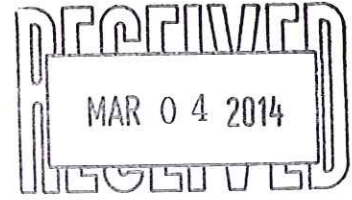
PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 141511
Invoice Date: Feb 17, 2014
Page: 1

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



Customer ID	Field Ticket #	Payment Terms	
Shak	62563	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Feb 17, 2014	3/19/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Janzen #3-36		
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
399.73	CEMENT SERVICE	Ton Mileage Charge	2.60	1,039.30
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 SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Kevin Ryan		
1.00	CEMENT SUPERVISOR	LaRene Wentz		

10502-5

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

\$ 1,813.74 ✓

ONLY IF PAID ON OR BEFORE
Mar 14, 2014

Subtotal	7,254.96
Sales Tax	299.61
Total Invoice Amount	7,554.57
Payment/Credit Applied	
TOTAL	7,554.57

DW

ALLIED OIL & GAS SERVICES, LLC 062563

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Dubkey

DATE <i>8/17/14</i>	SEC <i>36</i>	TWP <i>16</i>	RANGE <i>34</i>	CALLED OUT	ON LOCATION	JOB START <i>4:30</i>	JOB FINISH <i>5:00</i>
LEASE <i>Tanzen</i>	WELL # <i>3-36</i>	LOCATION <i>Lease E30 Eagle S TO T</i>			COUNTY <i>Scott</i>	STATE <i>Ky</i>	
OLD OR (NEW) (Circle one)				<i>Eto Nitro</i>			

CONTRACTOR *Southwind* OWNER *Esane*

TYPE OF JOB *Surfact*

HOLE SIZE *12 1/4* T.D.

CASINO SIZE *8 5/8* DEPTH *264'* CEMENT AMOUNT ORDERED *180 Com 370CC*

TUBING SIZE DEPTH *264'* *2000 gal*

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *15.86*

EQUIPMENT

PUMP TRUCK CEMENTER *Alan Ryan*

423-281 HELPER *Alan Ryan*

BULK TRUCK

941 DRIVER *Lakert Wentz*

BULK TRUCK

DRIVER

COMMON *180* @ *17.20* *3096.00*

POZMIX @

GEL *3* @ *23.40* *70.20*

CHLORIDE *10* @ *64.20* *642.00*

ASC @

@

@

@

@

@

@

@

@

HANDLING *194 gal* @ *2.48* *482.72*

MILEAGE *2600* @ *7.00/mile* *18200.00*

TOTAL *5198.72*

REMARKS:

*As Coy. Circulate max cement Displace Cement
Ghutin*

*Lease Oil Circulate
Duck *Alan Ryan, Lakert**

SERVICE

DEPTH OF JOB *264 FT*

PUMP TRUCK CHARGE *1512.00*

EXTRA FOOTAGE @

MILEAGE *45 miles* @ *7.20* *324.00*

MANIFOLD @

480 @ *4.40* *1980.00*

@

TOTAL *2056.75*

CHARGE TO: *Shakespeare*

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

To: Allied Oil & Gas Services, LLC.

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

SALES TAX (If Any)

TOTAL CHARGES *7,254.97*

DISCOUNT *1,813.74* IF PAID IN 30 DAYS

5,441.22 Net

PRINTED NAME *Gary Smith*

SIGNATURE *Gary Smith*



PO Box 93999
Southlake, TX 76092

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

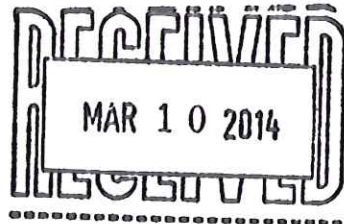
INVOICE

Invoice Number: 141613
Invoice Date: Feb 28, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Shak	62003	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Feb 28, 2014	3/30/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Janzen #3-36		
4.00	CEMENT MATERIALS	Gel -- No Charge		
165.00	CEMENT MATERIALS	ASC	20.90	3,448.50
18.00	CEMENT MATERIALS	Salt	26.35	474.30
825.00	CEMENT MATERIALS	Gilsonite	0.98	808.50
116.00	CEMENT MATERIALS	CD-31	10.30	1,194.80
12.00	CEMENT MATERIALS	WFR-II	58.70	704.40
208.00	CEMENT SERVICE	Cubic Feet Charge	2.48	515.84
349.20	CEMENT SERVICE	Ton Mileage Charge	2.60	907.92
1.00	CEMENT SERVICE	Long String ✓	2,765.75	2,765.75
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Rotating Head	475.00	475.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	EQUIPMENT OPERATOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Tyler Flipse		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		



10502-S

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

\$ 2,959.95

ONLY IF PAID ON OR BEFORE
Mar 25, 2014

Subtotal	11,839.51
Sales Tax	540.39
Total Invoice Amount	12,379.90
Payment/Credit Applied	
TOTAL	12,379.90

DW

ALLIED OIL & GAS SERVICES, LLC 062003

Federal Tax I.D. # 20-8651475

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

SERVICE POINT
Oakley K.S.

DATE <u>2-28-14</u>	SEC <u>36</u>	TWP <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>7:00p.m.</u>	JOB START <u>11:00p.m.</u>	JOB FINISH <u>11:30p.m.</u>
LEASE <u>Tanzen</u>	WELL # <u>3-36</u>	LOCATION <u>Pence E to Eagle Rd S to</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>			
OLD OR NEW (Circle one) <u>NEW</u>		<u>T 1/2 E N into</u>					

CONTRACTOR Southwind 70 OWNER Same

TYPE OF JOB Production (long string)

HOLE SIZE 7 7/8 TD. 4874'

CASING SIZE 5 1/2 DEPTH 4873.88'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL Port Collar DEPTH 2390.88'

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 42.50'

CEMENT LEFT IN CSG. 42.50'

PERFS.

DISPLACEMENT 114.99 bbl water

EQUIPMENT

PUMP TRUCK CEMENTER Paul Beaver

120 HELPER Tyler Flipse

BULK TRUCK

5662 DRIVER Brandon wilkinson

BULK TRUCK

DRIVER

CEMENT	AMOUNT ORDERED <u>165 sks ASC</u>		
	<u>10% salt 5# Gilsomite 2% gel</u>		
	<u>3/4 of 1% CD-31</u>		
COMMON		@	
POZMIX		@	
GEL	<u>4 sks</u>	@	<u>23.40</u> <u>N/C</u>
CHLORIDE		@	
ASC	<u>165 sks</u>	@	<u>20.90</u> <u>3448.50</u>
		@	
Salt	<u>18 sks</u>	@	<u>26.35</u> <u>474.30</u>
		@	
Gilsomite	<u>825#</u>	@	<u>.98</u> <u>808.50</u>
		@	
CD-31	<u>116#</u>	@	<u>10.30</u> <u>1194.20</u>
		@	
WFR-II	<u>12 bbl</u>	@	<u>58.70</u> <u>704.40</u>
HANDLING	<u>208 #</u>	@	<u>2.48</u> <u>515.84</u>
MILEAGE	<u>7.76 hrs x 45 mi/hr</u>	@	<u>260</u> <u>207.92</u>
			TOTAL <u>8054.26</u>

REMARKS:

Dropball Belltop at 4800

mix 12 bbl super Plush mix 30

skts in R.H. mix 135 sks ASC

wash up pump & lines into pit, release plug

Displace w/ water, Plug did land

@ 1200, 700 psi let pressure

Float did hold

Thank You!

CHARGE TO: Shakespeare

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>4874'</u>		
PUMP TRUCK CHARGE			<u>2765.75</u>
EXTRA FOOTAGE		@	
MILEAGE MLHV	<u>45</u>	@	<u>7.70</u> <u>346.80</u>
MANIFOLD Rot head		@	<u>475.00</u>
MLLV	<u>45</u>	@	<u>4.40</u> <u>198.00</u>
		@	
			TOTAL <u>3785.55</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 Doug Roberts

SIGNATURE Doug Roberts

Good job!

SALES TAX (if Any) _____

TOTAL CHARGES 11,839.81

DISCOUNT 2,959.95 IF PAID IN 30 DAYS

8,879.85 Net.



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 141775
Invoice Date: Mar 6, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Shak	62576	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-04	Oakley	Mar 6, 2014	4/5/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Janzen #3-36		
293.00	CEMENT MATERIALS	Class A Common	17.90	5,244.70
157.00	CEMENT MATERIALS	Pozmix	9.35	1,467.95
113.00	CEMENT MATERIALS	Flo Seal	2.97	335.61
4.00	CEMENT MATERIALS	Cottonseed Hulls	35.00	140.00
633.00	CEMENT SERVICE	Cubic Feet Charge	2.48	1,569.84
1,082.38	CEMENT SERVICE	Ton Mileage Charge	2.60	2,814.19
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	EQUIPMENT OPERATOR	Talon Jones		

INT

RECEIVED

MAR 17 2014

RECEIVED

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

\$ 3,650.09

ONLY IF PAID ON OR BEFORE
Mar 31, 2014

Subtotal	14,600.38
Sales Tax	585.84
Total Invoice Amount	15,186.22
Payment/Credit Applied	
TOTAL	15,186.22

10502-5

DW

ALLIED OIL & GAS SERVICES, LLC 062576

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Dalkey

DATE <u>3/1/14</u>	SEC. <u>36</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 AM</u>	JOB FINISH <u>10:00 PM</u>
LEASE <u>Tanzen</u>	WELL # <u>336</u>	LOCATION <u>Pence E to Eagle S to</u>	COUNTY <u>Scott</u>		STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>		<u>1/2 E into</u>					

CONTRACTOR Wildwest OWNER Same

TYPE OF JOB Prod. Port Collar
 HOLE SIZE _____ T.D. _____
 CASING SIZE 5 1/2 DEPTH _____
 TUBING SIZE 2 1/8 DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL Port Collar DEPTH 2391
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT 8 1/2

CEMENT
 AMOUNT ORDERED 500 SK 65/35
870 gal 1 1/4 Flo Seal
1000 lb Hulls on side
Mix 450 SK
 COMMON 293 @ 17.90 5238.40
 POZMIX 157 @ 9.35 1467.25
 OEL @ 2.30
 CHLORIDE @
 ASC @

EQUIPMENT
 PUMP TRUCK CEMENTER Alan Ryan
 # 423-281 HELPER Kevin Ryan
 BULK TRUCK
 # 818 DRIVER Talon Jones
 BULK TRUCK
 # _____ DRIVER _____

Flo Seal 113 @ 2.92 335.61
Hulls 45K @ 3.50 1575.00
 HANDLING 633 @ 2.40 1519.20
 MILEAGE 200 @ 7.20 1440.00

REMARKS:

Test tool 1200-1600 ft on mix 450 SK
1000 lb Hulls displace 8 1/2" all the
Close - Test tool 1200-1600 ft on 3.5" J
Reverse Clin

Cement did Circulate
Thank You
Tommy Talon

CHARGE TO: Shulke's pore
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 2391'
 PUMP TRUCK CHARGE 2483.50
 EXTRA FOOTAGE @
 MILEAGE @ 7.20 346.80
 MANIFOLD @ 4.40 198.00

TOTAL 3028.30

PLUG & FLOAT EQUIPMENT

 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

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

SALES TAX (if Any) _____

TOTAL CHARGES 14,654.09

DISCOUNT 3,663.52 IF PAID IN 30 DAYS

10,990.56 Net

PRINTED NAME _____

SIGNATURE Tommy Talon

GEOLOGIST'S REPORT

WellSight Systems

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: JANZEN #3-36
API: 15-171-21026-0000
Location: 915 FSL & 1880 FWL OF SECTION 36 T16S R34W
License Number: KCC #7311
Spud Date: 2/17/2014
Surface Coordinates: 915 FSL & 1880 FWL OF SECTION
Region: SCOTT COUNTY
Drilling Completed: 2/28/2014

Bottom Hole VERTICAL TEST
Coordinates:
Ground Elevation (ft): 3102
Logged Interval (ft): 3700 To: TD
Formation: MISSISSIPPIAN
Type of Drilling Fluid: GEL
K.B. Elevation (ft): 3114
Total Depth (ft): 3880

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: SHAKESPEARE OIL COMPANY, INC.
Address: 202 WEST MAIN STREET
SALEM, IL
62881

GEOLOGIST


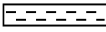

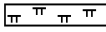
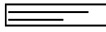
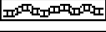




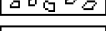


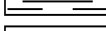

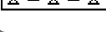
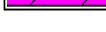

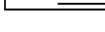
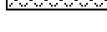
Name: MARK W. HERNDON
Company: TRC
Address: P.O. BOX 5958
NORMAN, OK
73070

Cores

DSTs

Comments

ROCK TYPES

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Sltst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

INTERVAL

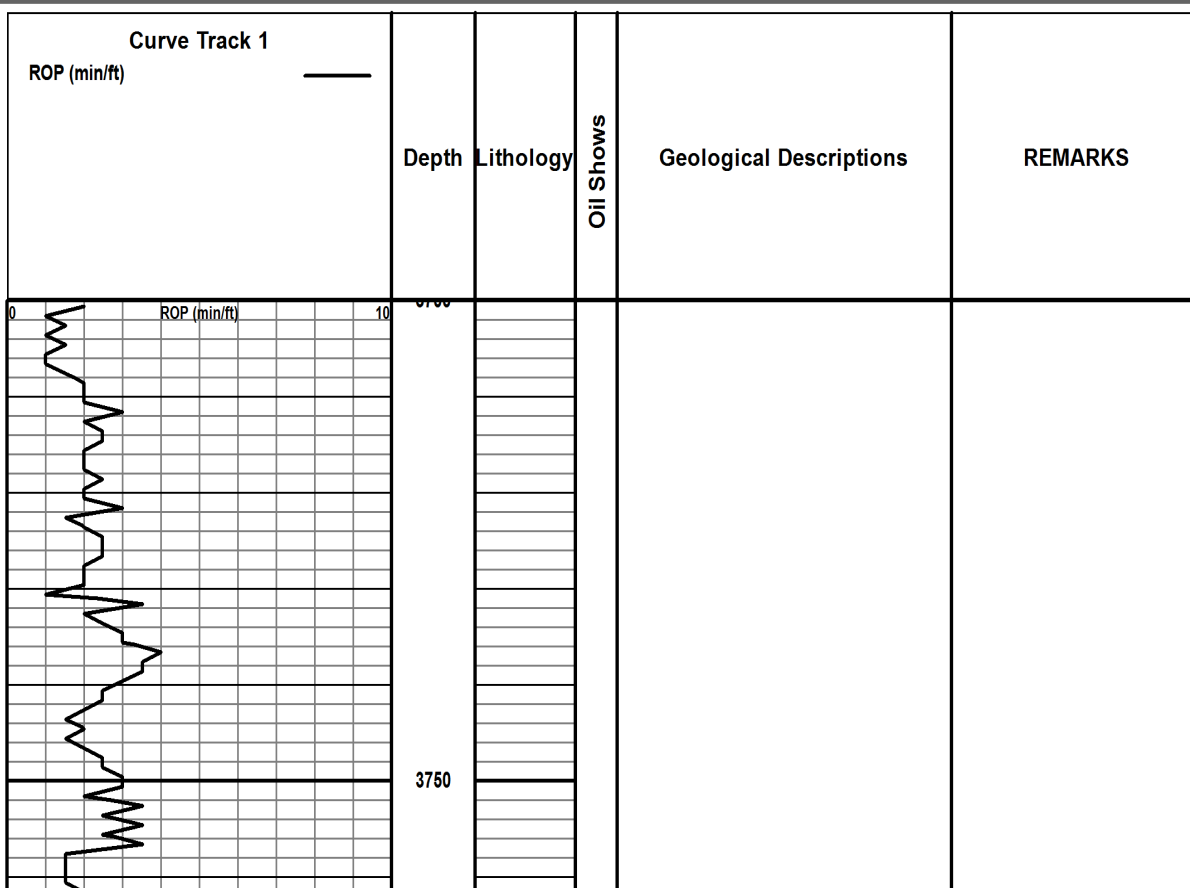
- Core
- Dst

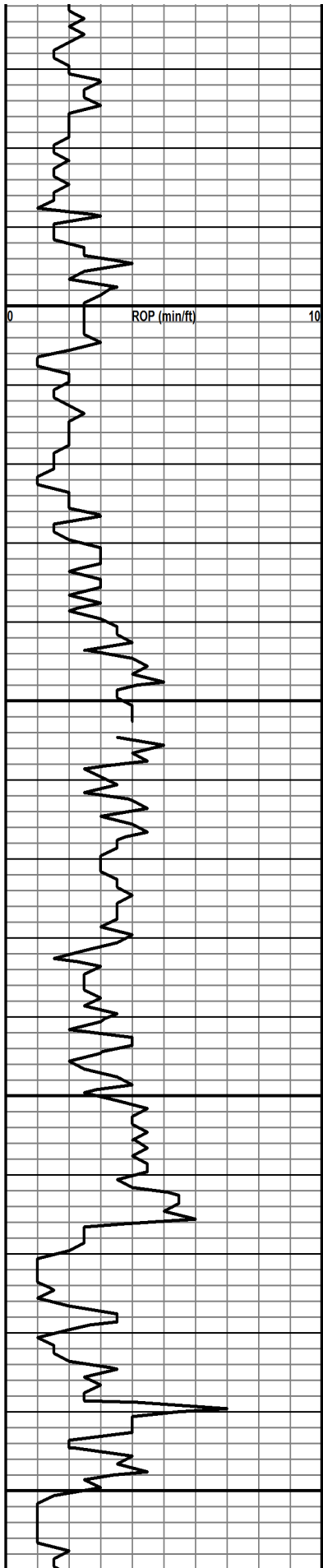
EVENT

- Rft
- Sidewall

OIL SHOW

- Even



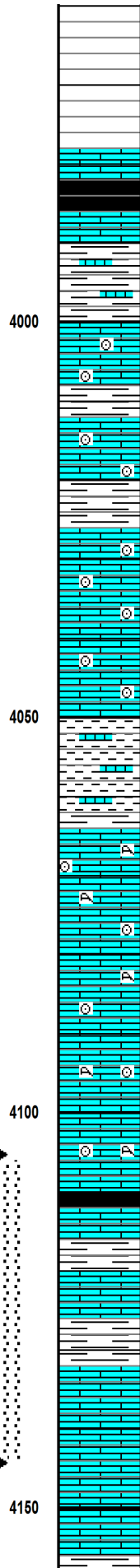
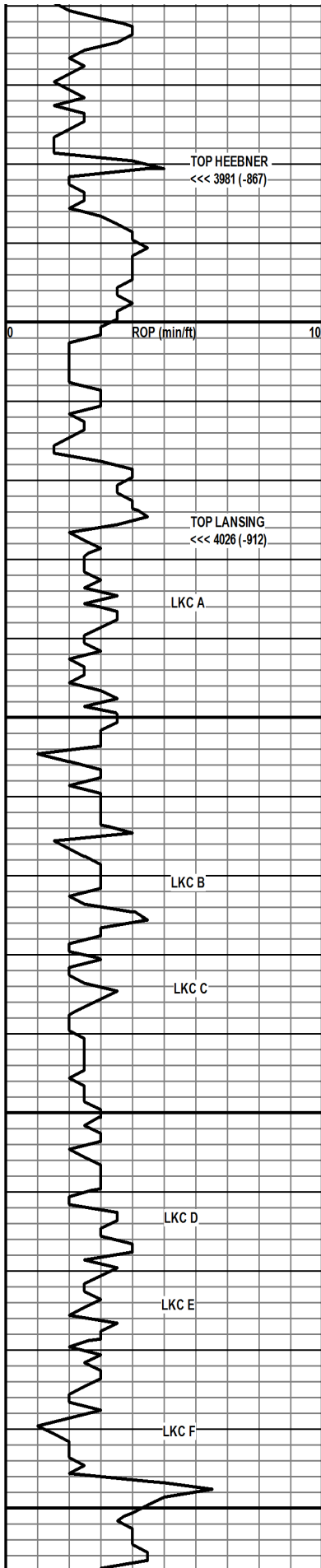


3800

3850

3900

3950



SHALE: BLACK

SHALE: GRAY TO DRK GRAY

LS: CRMY TO LT GRAY, CRS XTLN, DNS, WCMNTD, FOS, NVP. VRY SPTY DK BRN D O STN. NO FLOUR.

SH: GRAY, BLKY

LS: CRMY TO LT GRAY, WCMNTD CRSE FOS. NVP, V SPTY D O STN. NO FLOUR.

SH: GRAY, BLKY

LS: CHLKY WH TO LT GRAY, WCMNTD, CRS FOS, OCC CRINOIDS, NVP, SPTY DRK BRN DEAD OIL STN (DOS)

SHALE: GRAY TO DRK GRAY, WITH WH CHLKY TITE LS.

LS: CRMY TO TAN, CRSE XTLN IN WL CMNTD MTRX, FOS, OCC OIDS. FR PP VGY POR, SPTY DRK BRN DEAD OIL STN. NO FLOUR.

LS: CRMY TO LT TAN, CRS XTLN, WL CMNTD, FOS FRAGS, PR PP POR, SPTY DRK BRN DOS, NO FLOUR.

LS: CRMY, DNSE, FN XTLN, WELL CMNTD, SPTY DRK BRN D O STN

LS: CRMY TO LT TAN, FN XTLN, OCC PP VGY POR, PR PP D O STN.

SH: DRK GRAY

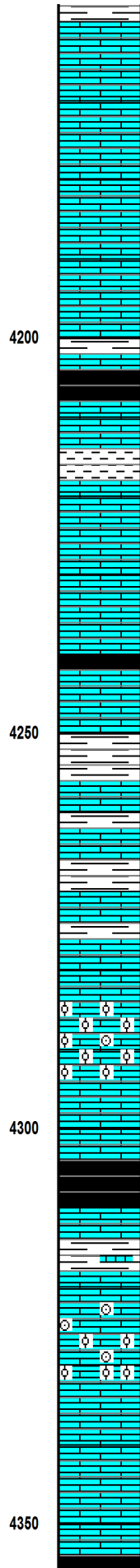
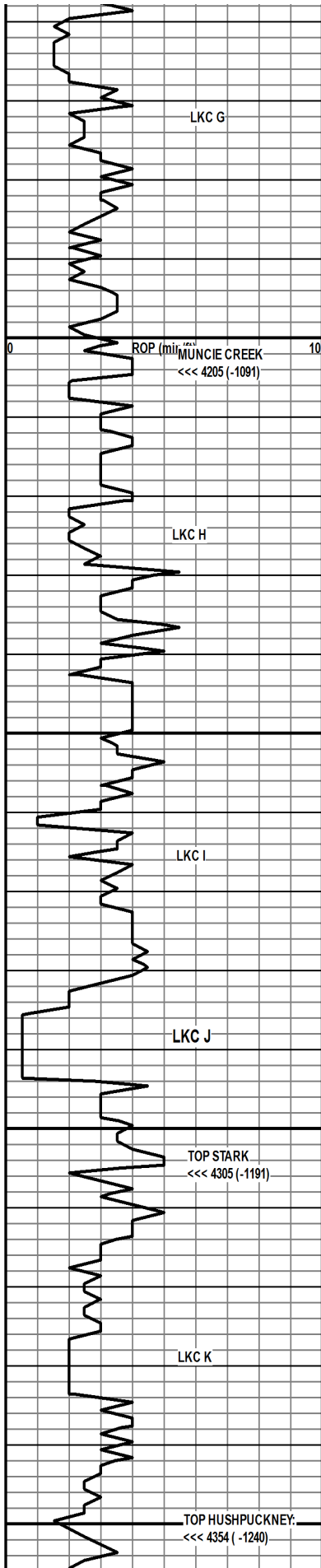
LS: CRM TO LT GRAY, VFN XTLN, DENSE, FR PP POR. FEW VUGS WGD SHO LT BRN LOS, BRT YLW FLOUR, GD INST STRMMG CUT. FSFO. SEE DST #1

LS: CRMY TO LT GRAY, VFN XTLN, DNSE, NVP, NS

NOTE: THROUGHOUT THE LKC SECTION THERE IS REGULAR SPTY DRK BRN DEAD OIL STAIN W NO FLOURESCENCE

**DST #1: 4105 TO 4145
LKC D, E, F
30-30-30-30
30" BUILT TO 1/2" NO RETURN BLOW
30 MIN WK SURF BLOW
REC 25' MUD, NS
HP: 1986-1983
IF: 16-20 FF: 21-25
SIP: 1001 -963**

NOTE: STRAP 3.6 FT LONG TO BOARD



LS: CRMY TO LT GRY, CHLKY, DNS, NVP, NS

LS: CRMY TO LT GRY, CHLKY, DNS, NVP, NS

LS: CRMY TO LT GRY, CHLKY, DNS, NVP

4200

SHALE: BLACK

D LS: LT TAN, FN XTLN, FOS, PR INXL PP POR, SS DRK BRN DEAD OIL. NO ODOR, NO FLOR.

D LS: CRMY TO GRY, FN XTLN, CHKY, FOS-SLI OOL, P TO FR V FN INT XTLN POR. VRY SPY DK BRN DEAD OIL STN. NO FLOUR.

4250

D LS: CRMY TO GRY, FN XTLN, DNSE, SL FOS, NVP, SPY STN DRK TO BLK DEAD OIL STN. NO FLOUR, NO ODOR

SH: GRY, RNDED

LS: WH TO LT TAN, ARG, NVP, NS

D LS: CRMY TO LT GRY, FN XTLN, SM WELL CMNTD OOID-FOS FRAG PKSTN, SM EXC OOLICASTIC POR. V SPY DK BRN O STN. NO FLOR.

4300

LS: CRM TO LT TAN, FN XTLN, OCC FOS.

SH: BLK

D LS: WH TO DRK GRY, DNS, SM EXC OOLICASTIC POR, MOST OOL & FOS FRAG WL CMNTD PACKSTONE. SPY DK BRN D O S.

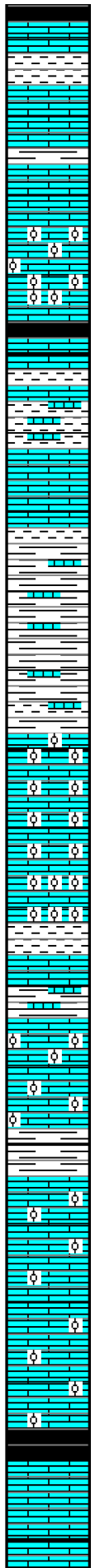
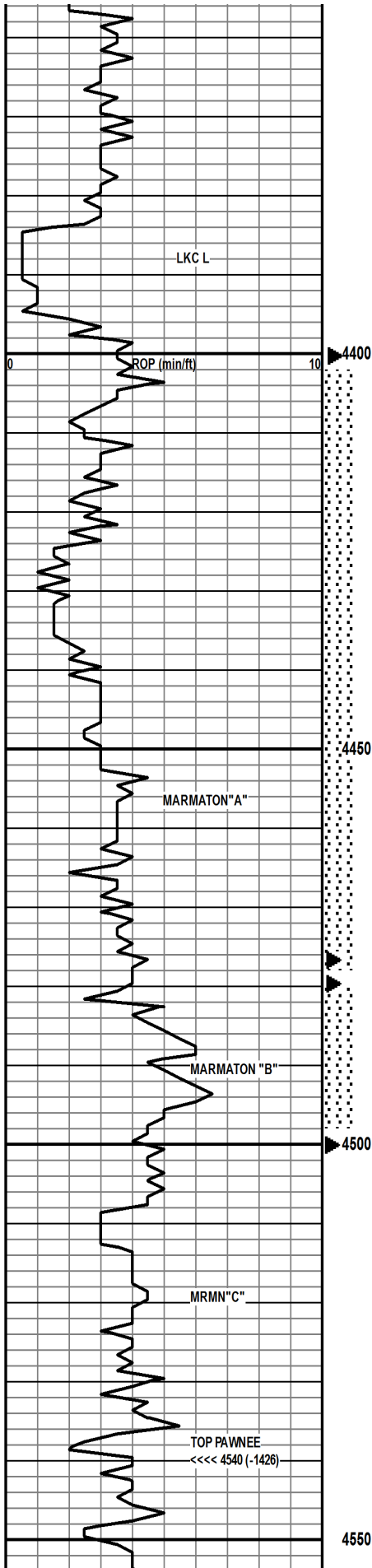
4350

LS: CRMY TO LT GRY, CHLKY, DNS, NVP NS

LS: CRMY TO LT GRY, CHLKY, DNS, NVP, NS

NOTE: VERY POOR SAMPLES

VIS 54
MW: 9.1



SH: BLK

LS: LT TAN TO GRY, FN XTLN, OCC FOS IN TITE MTRX, NVP, NS

LS: WH, CRSE OOLICASTIC VGY POR, NS

SH: LT TO DRK GRY WDNS LT GRY DNS LS STREAKS.

LS: CRMY TO LT TAN, CHLKY, DNS, NVP, NS

SH: DRK GRY

SH: DRK GRY

LS: LT GRY TO LT TAN, MSTLY WL CMNTD OOL & FOS FRAG PACKSTONE. OCC BRYZN, FEW PCS MED XTLN, VUGGY, OOL/FOS FRAGS W GD SAT LT BRN LOS, BRT YLW FLOUR, FLASH CUT. MSTLY WL CMNTD & TITE. FEW PCS OOLICASTIC W NO SHO

LS: LT GRY, MSTLY WL CMNTD FN GRN OOL & FOS FRG PKSTN. FEW PCS WFR PP VGY POR BLDG LIVE OIL, BRT YLW FLOUR, FL SH CUT. VUGS ARE VRY SML AND PERM IS QUESTIONABLE. FEW PCS OOLICASTIC W NO SHO

LS: LT GRY, WL CMNTD FN GRN OOID & FOS FRG PACKSTONE. FEW PCS WFR PP VGY POR VIS BLDG LIVE OIL, GD EVN LOS, BRT YLW FLOUR, FL SH CUT.

LS: CRMY TO DK GRY, DNSE, VRY WL CMNTD OOID GRAINSTONE. NVP, NS

LS: CRMY TO DK GRY, CHLKY IP, WL CMNTD OIDS & FOS FRAGS. NVP, NO FLOUR, NO ODOR, NS

SH: BLACK, BLKY

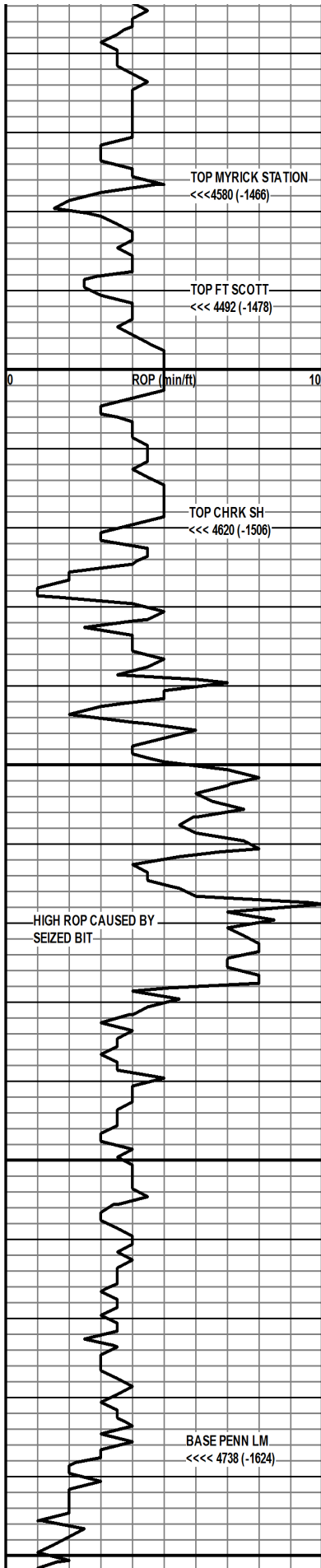
LS: CRMY TO GRY, FN XTLN, DNSE, NVP, NS

VIS: 57
MW: 9.3

VIS: 63
MW: 9.3

DST#2: MARMATON "A"
4400-4480
15-30-45-90
IF: BOB IN 6 MIN. RETURN: 2.75"
FF: BOB IN 4 MIN. RETURN: BOB IN 18 MIN
RECOVERY: 1070' GIP, 475' GO, 125' GOCM
HP: 2214-2199
IF: 41-106 FF: 112-201
SIP: 528-423

DST #3: MARMATON "B"
4477-4500
30-30-30-60
IF: 3" BLOW, NO RETURN
FF: 3.75" BLOW, NO RETURN
RECOVERY: 2 FT OIL, 13 FT OCM
HP: 2226-2184
IF: 26-31 FF: 30-33
SIP: 1279-1287

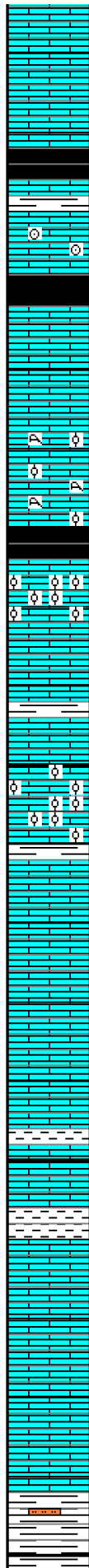


4600

4650

4700

4750



LS: CRMY TO GRY, FN XTLN, DENSE, NO FOS, NVP, NS

LS: CRYMY TO GRY, FN XTLN, DENSE, NO FOS, NVP, NS.

SH: BLACK

LS: WH TO LT TAN, MICR XTLN, DNS, OCC FOS, WL CMNTD, NVP, ONE PIECE W VRY FN XTLN POR BLDG LV OIL
SH: BLACK

LS: LT TAN, MICR XTLN, DNSE, NO FOS, NO FLOUR, NS

LS: CRMY TO LT GRY, FN TO MED GRN, WL CMNTD, OOID & FOS FRAGS, NVP, NS

SH: BLACK

LS: CRMY TO LT GRY, V FN GRN OOLITE. SM VRY FN OOL POR. NS ONE PIECE W VRY FN OOL POR BLDG LV OIL

LS: CRMY TO LT GRY, DNS, NVP, INCR IN DRK GRY SH. NS.

LS: WH TO LT GRY, DNS, OCC WL CMNTD OOID GRNSTN, NVP, NS

LS: CRMY TO LT GRY, V FN XTLN, OCC FOS, NVP, NS

LS: CRMY TO LT GRY, FN XTLN, OCC FOS, W CMNTD, NVP, NS

LS: CRMY TO LT GRY, FN XTLN, DNSE, WL CMNTD, NVP, NS

LS: CRMY TO LT GRY, V FN XTLN, DNSE, NVP, NS

LS: CRMY TO LT GRY, V FN XTLN, DNSE, NVP, NS

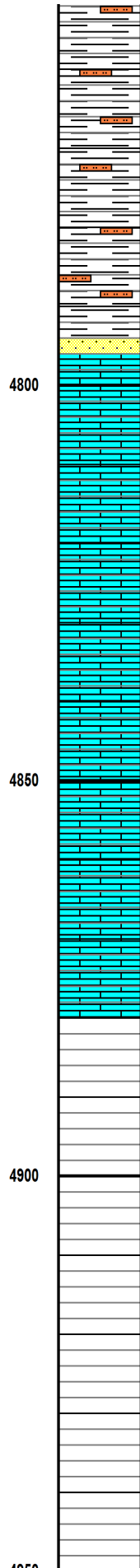
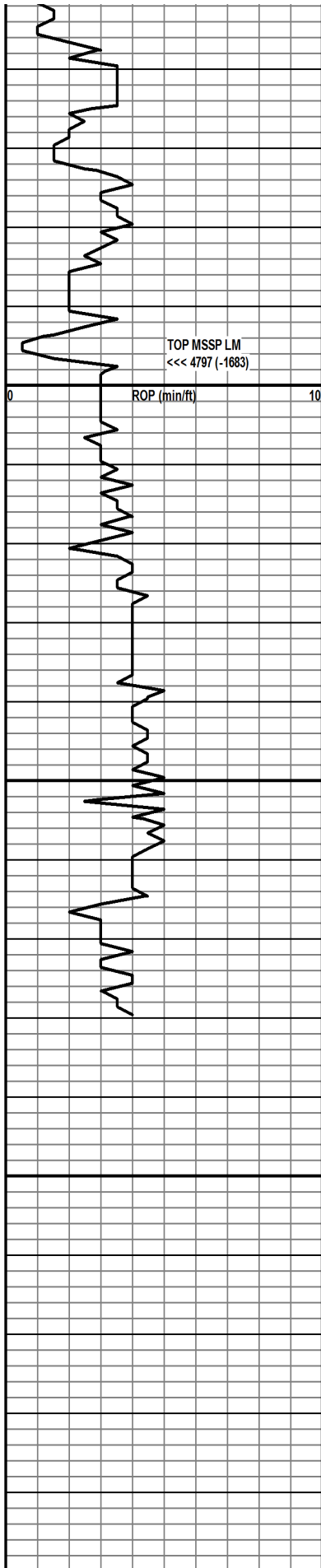
SH: VARI COLORED, OCC GRY PRLY SRTD SILTSTONE, NVP, NS

NOTE: PCS BLEEDING LIVE OIL APPEAR TO HAVE LOW PERM.

NOTE: HIGH ROP RATES DUE TO BIT GOING OUT

NOTE: GEOLOGRAPH STICKING

BIT TRIP 4678



SH: VARI COLORED, OCC GRY SILTSTONE, NVP, NS

SH: VARI COLORED, OCC GRY SLTSTN, NVP, NS

MORROW SANDSTONE: SS: WH, V FN GRN, WELL SR TD, RND, WL CMNTD W CALCITE CMNT. NVP, NS

LS: LT TAN, FN XTLN, DNSE, NVP, NS

LS: LT TAN, MED XTLN, DNSE, NVP, NS

LS: LT TAN, V FN XTLN, NVP, NS

LS: LT TAN, V FN XTLN, NVP, NS

LS: LT TAN, V FN XTLN, NVP, NS

LS: LT TAN, V FN XTLN, NVP, NS

RTD: 4880
LTD: 4774



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

36-16s-34w Scott Co.

202 W Main St
Salem, IL 62881

Janzen #3-36

Job Ticket: 56352

DST#: 1

ATTN: Mark Herndon

Test Start: 2014.02.23 @ 11:52:00

GENERAL INFORMATION:

Formation: " E & F "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:07:00

Time Test Ended: 18:25:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Samuel Esparza

Unit No: #71

Interval: 4105.00 ft (KB) To 4145.00 ft (KB) (TVD)

Reference Elevations: 3114.00 ft (KB)

Total Depth: 4145.00 ft (KB) (TVD)

3102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8845

Inside

Press @ Run Depth: 25.35 psig @ 4106.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.23

End Date:

2014.02.23

Last Calib.:

2014.02.23

Start Time: 11:52:05

End Time:

18:25:29

Time On Btm:

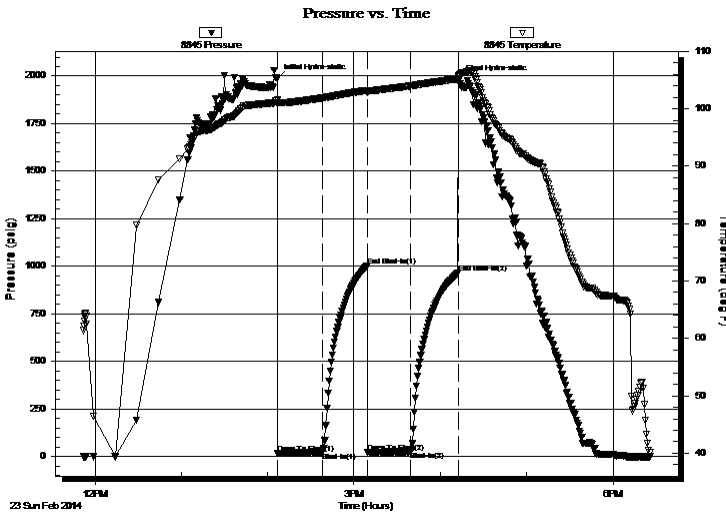
2014.02.23 @ 14:06:45

Time Off Btm:

2014.02.23 @ 16:13:00

TEST COMMENT: IF: 1/2" Blow .
IS: No Return.
FF: Weak Surface Blow .
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.10	101.47	Initial Hydro-static
1	16.57	100.84	Open To Flow (1)
32	20.06	101.86	Shut-In(1)
63	1001.65	103.20	End Shut-In(1)
63	21.54	102.81	Open To Flow (2)
93	25.35	103.97	Shut-In(2)
126	963.74	105.22	End Shut-In(2)
127	1983.13	105.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

36-16s-34w Scott Co.

202 W Main St
Salem, IL 62881

Janzen #3-36

Job Ticket: 56352

DST#: 1

ATTN: Mark Herndon

Test Start: 2014.02.23 @ 11:52:00

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: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud 100m	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

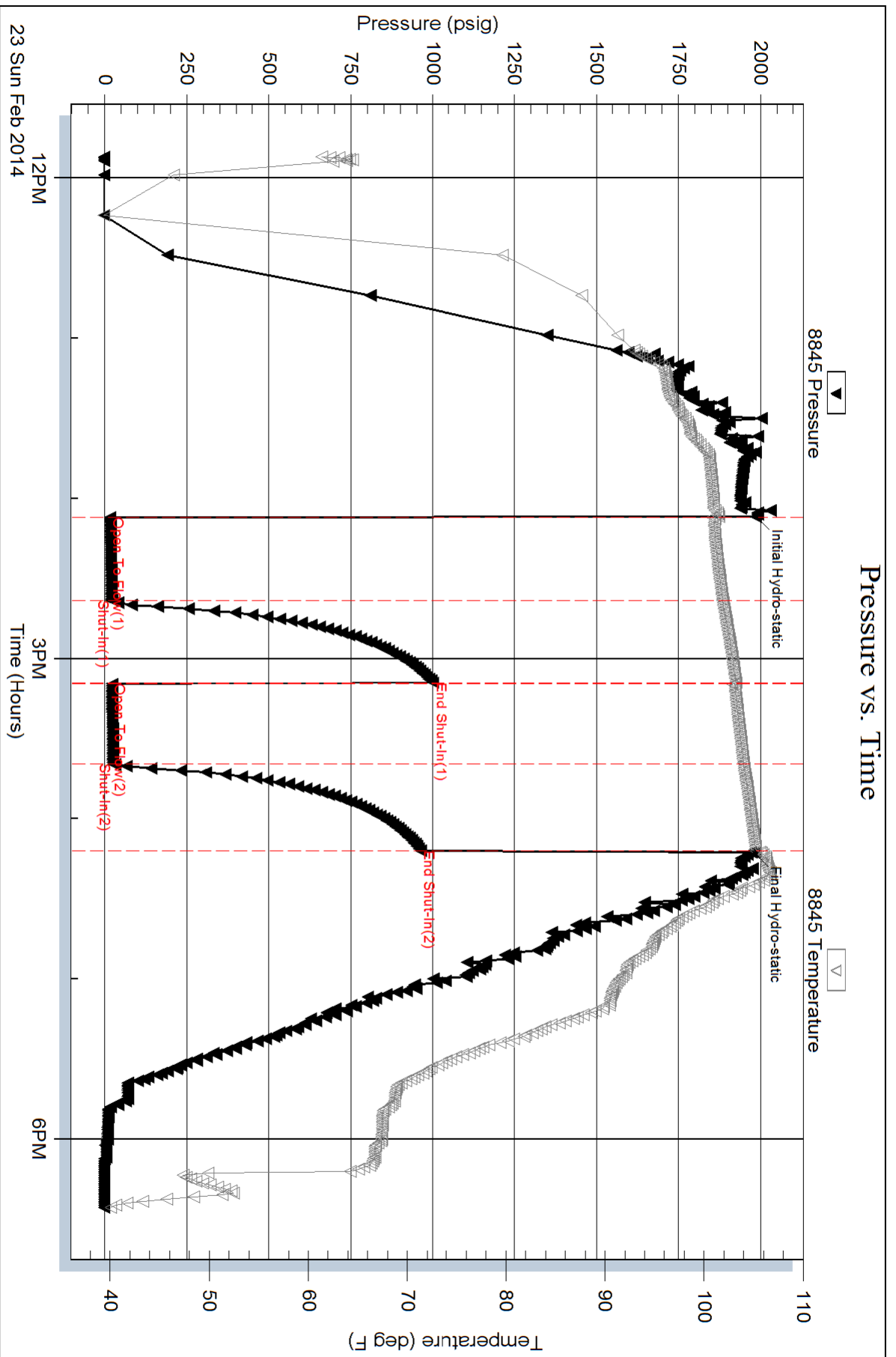
Serial #: 8845

Inside

Shakespeare Oil Co., Inc.

Janzen #3-36

DST Test Number: 1





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

36-16s-34w Scott Co.

202 W Main St
Salem, IL 62881

Janzen #3-36

Job Ticket: 56353

DST#: 2

ATTN: Mark Herndon

Test Start: 2014.02.25 @ 02:36:00

GENERAL INFORMATION:

Formation: **Marmaton " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:07:30

Time Test Ended: 12:27:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Samuel Esparza

Unit No: 71

Interval: 4400.00 ft (KB) To 4480.00 ft (KB) (TVD)

Reference Elevations: 3114.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

3102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8845

Inside

Press@RunDepth: 201.39 psig @ 4401.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.25

End Date:

2014.02.25

Last Calib.:

2014.02.25

Start Time: 02:36:05

End Time:

12:27:15

Time On Btm:

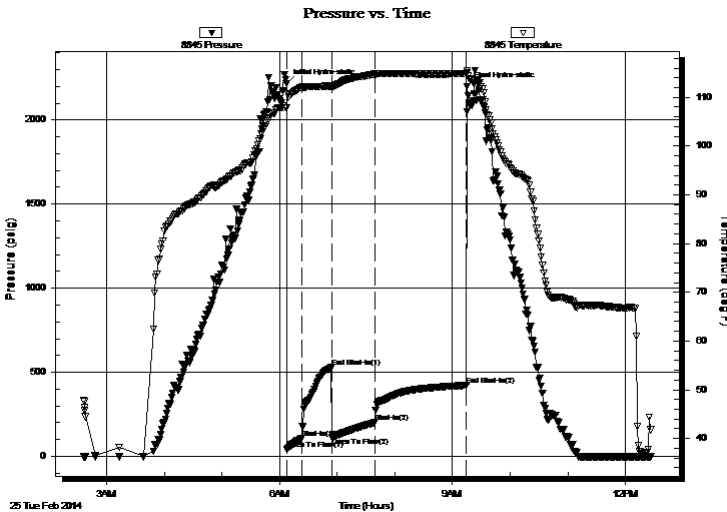
2014.02.25 @ 06:07:00

Time Off Btm:

2014.02.25 @ 09:15:30

TEST COMMENT: IF: BOB @ 6 min.
IS: Bled off for 6 min. 2 3/4" Return.
FF: BOB @ 4 1/2 min.
FS: Bled off for 6 min. BOB Return @ 18 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2214.90	107.95	Initial Hydro-static
1	41.05	107.99	Open To Flow (1)
16	106.63	112.12	Shut-In(1)
47	528.82	112.32	End Shut-In(1)
48	112.61	112.18	Open To Flow (2)
93	201.39	114.75	Shut-In(2)
188	422.90	114.86	End Shut-In(2)
189	2199.18	115.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOCM 20g 30o 50m	1.75
470.00	GO 30g 70o	6.59
0.00	1070' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

36-16s-34w Scott Co.

202 W Main St
Salem, IL 62881

Janzen #3-36

Job Ticket: 56353

DST#: 2

ATTN: Mark Herndon

Test Start: 2014.02.25 @ 02:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
125.00	GOCM 20g 30o 50m	1.753
470.00	GO 30g 70o	6.593
0.00	1070' GIP	0.000

Total Length: 595.00 ft Total Volume: 8.346 bbl

Num Fluid Samples: 0

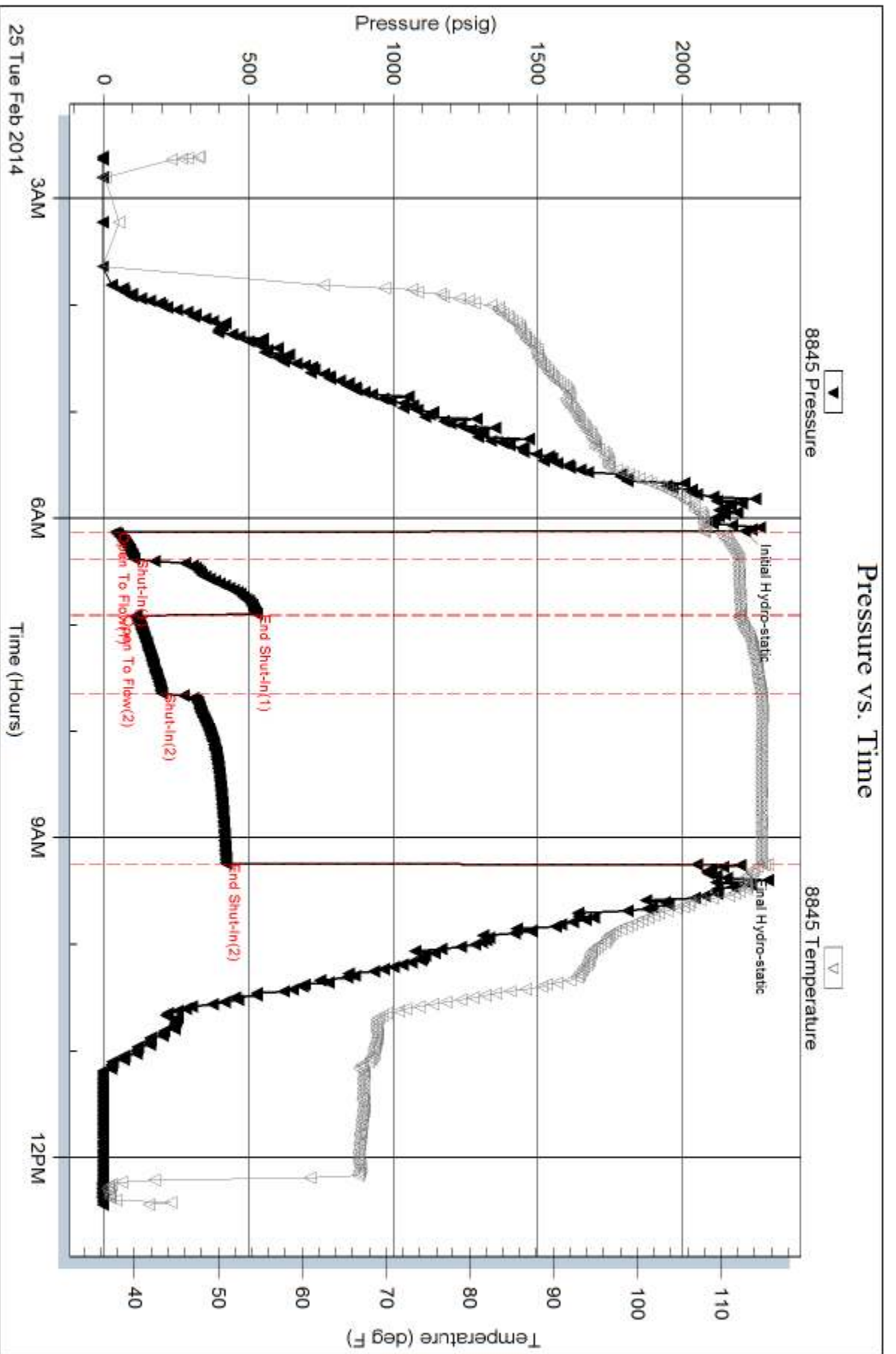
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API: 34 @ 30 degrees= 37 deg API





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

36-16s-34w Scott Co.

202 W Main St
Salem, IL 62881

Janzen #3-36

Job Ticket: 56354

DST#: 3

ATTN: Mark Herndon

Test Start: 2014.02.25 @ 21:36:00

GENERAL INFORMATION:

Formation: **Marmaton " B "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:45:45

Time Test Ended: 07:51:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Samuel Esparza

Unit No: #71

Interval: 4477.00 ft (KB) To 4500.00 ft (KB) (TVD)

Reference Elevations: 3114.00 ft (KB)

Total Depth: 4500.00 ft (KB) (TVD)

3102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8845 Outside

Press@RunDepth: 33.05 psig @ 4478.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.25

End Date:

2014.02.26

Last Calib.:

2014.02.26

Start Time: 21:36:05

End Time:

07:51:30

Time On Btm:

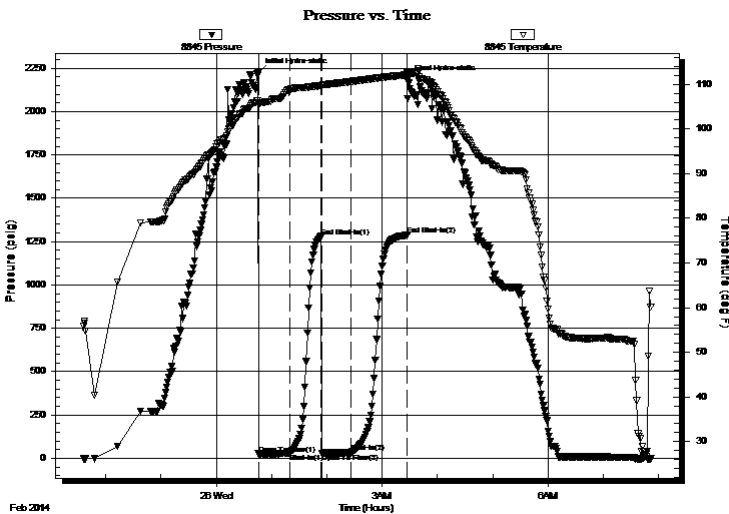
2014.02.26 @ 00:45:30

Time Off Btm:

2014.02.26 @ 03:28:15

TEST COMMENT: IF: 3" Blow .
IS: No Return.
FF: 3 3/4" Blow .
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2226.04	106.33	Initial Hydro-static
1	25.57	105.67	Open To Flow (1)
34	30.96	108.33	Shut-In(1)
69	1279.74	109.68	End Shut-In(1)
69	30.26	109.63	Open To Flow (2)
101	33.05	110.63	Shut-In(2)
162	1287.86	112.12	End Shut-In(2)
163	2184.39	112.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
13.00	OCM 40o 60m	0.18
2.00	Clean Oil 100o	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

36-16s-34w Scott Co.

202 W Main St
Salem, IL 62881

Janzen #3-36

Job Ticket: 56354

DST#: 3

ATTN: Mark Herndon

Test Start: 2014.02.25 @ 21:36:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 70.00 sec/qt

Water Loss: 10.39 in³

Resistivity: 0.00 ohm.m

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
13.00	OCM 40o 60m	0.182
2.00	Clean Oil 100o	0.028

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

