Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1150679

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 # 7311
Name: Shakespeare Oil Co., Inc.
Address 1: 202 W MAIN ST
Address 2:
City: SALEM State: IL Zip: 62881 + 1519
Contact Person: Don Williams
Phone: (618) 548-1585
CONTRACTOR: License # 33935
Name: H. D. Drilling, LLC
Wellsite Geologist: Steve Davis
Purchaser: N/A

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 #:

6/20/2013	6/29/2013	6/30/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-171-20950-00-00
Spot Description:
SE - SW - SW - NW Sec. 13 Twp. 16 S. R. 34 ☐ East ☑ West
2540 Feet from ☑ North / ☐ South Line of Section
520 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Scott
Lease Name: Unruh Well #: 1-13
Field Name: Wildcat
Producing Formation: N/A
Elevation: Ground: 3106 Kelly Bushing: 3113
Total Vertical Depth: 4850 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 262 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: 6500 ppm Fluid volume: 2500 bbls
Dewatering method used: Evaporated

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: 07/18/2013
☑ **Confidential Release Date:** 07/18/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 07/19/2013

1150679

Operator Name: Shakespeare Oil Co., Inc. Lease Name: Unruh Well #: 1-13

Sec. 13 Twp. 16 S. R. 34 ☐ East ☑ West County: Scott

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
surface	12.25	8.625	23	262	Class A	175	3% CaCl2, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	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: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Unruh 1-13
Doc ID	1150679

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Unruh 1-13
Doc ID	1150679

Tops

Name	Top	Datum
Base Anhydrite	2464	+649
Heebner	3984	-871
Lansing	4025	-924
Muncie Creek	4204	-1091
Stark Shale	4303	-1190
Hushpuckney	4345	-1232
Pawnee	4513	-1400
L. Cherokee Shale	4594	-1481
Johnson	4649	-1536
Morrow Shale	4704	-1591
Mississippian	4747	-1634

ALLIED
OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 136927
Invoice Date: Jun 20, 2013
Page: 1

Now Includes:

Treat-Em-Rite Pressure Pumping Service, LLC

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

Customer ID	Field Ticket #	Payment Terms	
Shak	60515	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-01	Great Bend	Jun 20, 2013	7/20/13

Quantity	Item	Description	Unit Price	Amount
		Unruh #1-13		
175.00	MAT	Class A Common	17.90	3,132.50
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
188.74	SER	Cubic Feet	2.48	468.07
387.90	SER	Ton Mileage	2.60	1,008.54
1.00	SER	Surface	1,512.25	1,512.25
45.00	SER	Pump Truck Mileage	7.70	346.50
45.00	SER	Light Vehicle Mileage	4.40	198.00
1.00	CEMENTER	Joshua Isaac		
1.00	EQUIP OPER	Charles Kinyon		
1.00	EQUIP OPER	Daniel Casper		

INT

Surface
10502-S

RECEIVED
JUL 01 2013
KCC WICHITA

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

$ 1,851.21

ONLY IF PAID ON OR BEFORE
Jul 15, 2013

Subtotal	7,120.06
Sales Tax	297.70
Total Invoice Amount	7,417.76
Payment/Credit Applied	
TOTAL	**7,417.76**

DW

ALLIED OIL & GAS SERVICES, LLC 060515

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Great Bend KS

DATE 6-20-13	SEC. 12	TWP. 16	RANGE 34	CALLED OUT	ON LOCATION	JOB START 7:30 pm	JOB FINISH 8 p.m.
LEASE Unruh	WELL #		LOCATION North Scott City to 95 Hwy 2½W then N Penize, W to edge Rd ½ N			COUNTY Scott	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR ~~Shakespear Oil Co~~ Hd drilling
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D.
CASING SIZE 8⅝ DEPTH 265
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15 Ft
PERFS.
DISPLACEMENT 15.92 bbls Fresh water

OWNER

EQUIPMENT

PUMP TRUCK # 366 CEMENTER Josh Isaac
HELPER Cheryls ~~te~~ Kinyon
BULK TRUCK # 610 DRIVER Dan Casper
BULK TRUCK # DRIVER

CEMENT

AMOUNT ORDERED 175 sks Class A 3%cc 2%gel

COMMON	175	@ 17.90	3.132.50
POZMIX		@	
GEL	3	@ 23.40	70.20
CHLORIDE	6	@ 64.00	384.00
ASC		@	
HANDLING	188.74	@ 2.48	468.07
MILEAGE	8.62 X 45 X 2.60		1.008.54
		TOTAL	5.063.31

REMARKS:

On location - Rig up
Had safety meeting
Run 8⅝ casing
Break circulation with rig mud pump
Pump 5 bbls Freshwater
Mix 175 sks Class A 3% 2%
Displace 15.42 bbls Fresh water cut shut in
Cement did Circulate 8 pm
Rig down

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE 15.12.25
EXTRA FOOTAGE @
MILEAGE Hum 45 @ 7.70 346.50
MANIFOLD @
Hum 45 @ 4.40 198.00
@
TOTAL 2.056.75

CHARGE TO: Shakespear Oil Co.
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 7.120.06
DISCOUNT 1.851.21 IF PAID IN 30 DAYS
5.268.84

PRINTED NAME X LeWayne Troesner

SIGNATURE X

Thank you

ALLIED
OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 137058
Invoice Date: Jun 30, 2013
Page: 1

Now Includes:

Treat-Em-Rite Pressure Pumping Service, LLC

Bill To:

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

Customer ID	Field Ticket #	Payment Terms	
Shak	60811	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-03	Oakley	Jun 30, 2013	7/30/13

Quantity	Item	Description	Unit Price	Amount
		Unruh #1-13		
162.00	MAT	Class A Common	17.90	2,899.80
108.00	MAT	Pozmix	9.35	1,009.80
9.00	MAT	Gel	23.40	210.60
67.00	MAT	Flo Seal	2.97	198.99
289.98	SER	Cubic Feet	2.48	719.15
544.90	SER	Ton Mileage	2.60	1,416.75
1.00	SER	Rotary Plug	2,483.59	2,483.59
45.00	SER	Pump Truck Mileage	7.70	346.50
45.00	SER	Light Vehicle Mileage	4.40	198.00
1.00	CEMENTER	Alan Ryan		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Brandon Wilkinson		

INT

RECEIVED
JUL 0 8 2013

10502-17

DW

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

$ 2,465.63

ONLY IF PAID ON OR BEFORE

Jul 25, 2013

Subtotal	9,483.18
Sales Tax	787.10
Total Invoice Amount	10,270.28
Payment/Credit Applied	
TOTAL	**10,270.28**

ALLIED OIL & GAS SERVICES, LLC 060811

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE 6/30/13	SEC. 13	TWP. 16	RANGE 34	CALLED OUT	ON LOCATION	JOB START 8:00	JOB FINISH 9:00
LEASE Unruh	WELL # 1-13		LOCATION Penn 2E ½N Ento			COUNTY Scott	STATE KS
OLD OR NEW (Circle one)							

CONTRACTOR H&H #3
TYPE OF JOB Pro Rotary
HOLE SIZE 7 7/8 T.D.
CASING SIZE 8 5/8 DEPTH
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER Same

CEMENT
AMOUNT ORDERED 230 60/40 4% gel 1/4# Flo

EQUIPMENT

PUMP TRUCK CEMENTER Allen Ryan
422 HELPER Wayne McGaughey
BULK TRUCK
396 DRIVER Brandon Wilkinson
BULK TRUCK
DRIVER

REMARKS:

50 sk @ 3440'
80 sk @ 1640'
40 sk @ 840'
50 sk @ 300'
20 sk @ 60'
30 sk RH

COMMON	161	@ 12.20	2899.80
POZMIX	108	@ 9.35	1009.80
GEL	9	@ 23.40	210.60
CHLORIDE		@	
ASC		@	
Flo Seal	67	@ 2.97	198.99
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING 289.98 CF		@ 2.40	219.15
MILEAGE 289 sk/mile 12.109		ton	1416.75
		TOTAL	6455.09

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			2183.59
EXTRA FOOTAGE		@	
MILEAGE 45 mile		@ 3.20	346.80
MANIFOLD		@	
Cementer 45 miles		@ 4.40	198.00
		@	
		TOTAL	3028.09

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	TOTAL	

CHARGE TO: Shakespeare
STREET
CITY STATE ZIP

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 LeWayne Treisner

SIGNATURE LeWayne Treisner

SALES TAX (If Any)
TOTAL CHARGES 9,483.18
DISCOUNT 2,460.63 IF PAID IN 30 DAYS
7,017.55 Net

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W. Main St
Salem, IL 62881

ATTN: Steve Davis

S13-16-34 Scott, KS

Unruh 1-13

Job Ticket: 51767 **DST#: 1**

Test Start: 2013.06.25 @ 17:00:00

GENERAL INFORMATION:

Formation: **LKC 'H, I'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:07:50
Time Test Ended: 00:38:50

Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Smith
Unit No: 62

Interval: 4205.00 ft (KB) To 4272.00 ft (KB) (TVD)
Total Depth: 4272.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

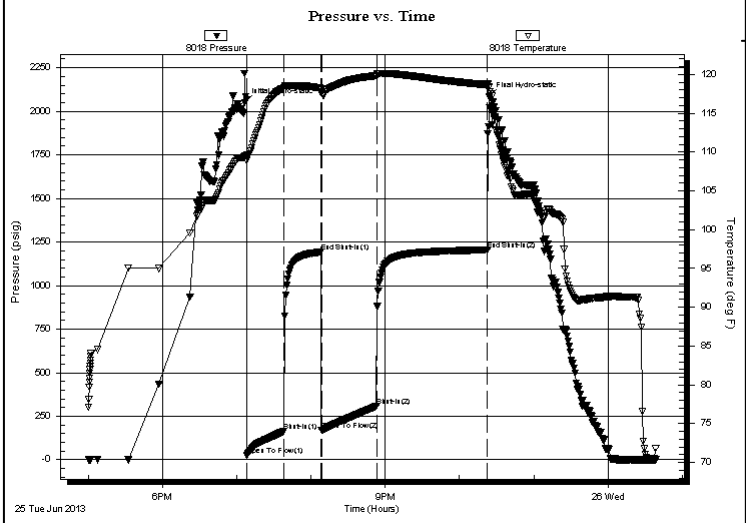
Reference Elevations: 3113.00 ft (KB)
3106.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: 307.27 psig @ 4207.00 ft (KB)
Start Date: 2013.06.25 End Date: 2013.06.26
Start Time: 17:00:02 End Time: 00:38:50

Capacity: 8000.00 psig
Last Calib.: 2013.06.26
Time On Btm: 2013.06.25 @ 19:06:10
Time Off Btm: 2013.06.25 @ 22:23:39

TEST COMMENT: B.O.B. @ 16 min.
No return.
B.O.B. @ 18 min.
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2050.87	109.30	Initial Hydro-static
2	25.59	108.87	Open To Flow (1)
32	163.68	118.30	Shut-In(1)
62	1193.17	118.20	End Shut-In(1)
62	167.74	117.62	Open To Flow (2)
107	307.27	119.82	Shut-In(2)
197	1204.63	118.67	End Shut-In(2)
198	2081.81	118.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .150 @ 68 Degrees F = 52000	0.00
492.00	W 100w	5.55
156.00	WM 20w 80m	2.19
0.00	Oil spots in tool.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

202 W. Main St
Salem, IL 62881

ATTN: Steve Davis

S13-16-34 Scott, KS

Unruh 1-13

Job Ticket: 51767 **DST#: 1**

Test Start: 2013.06.25 @ 17:00:00

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:	52000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.77 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

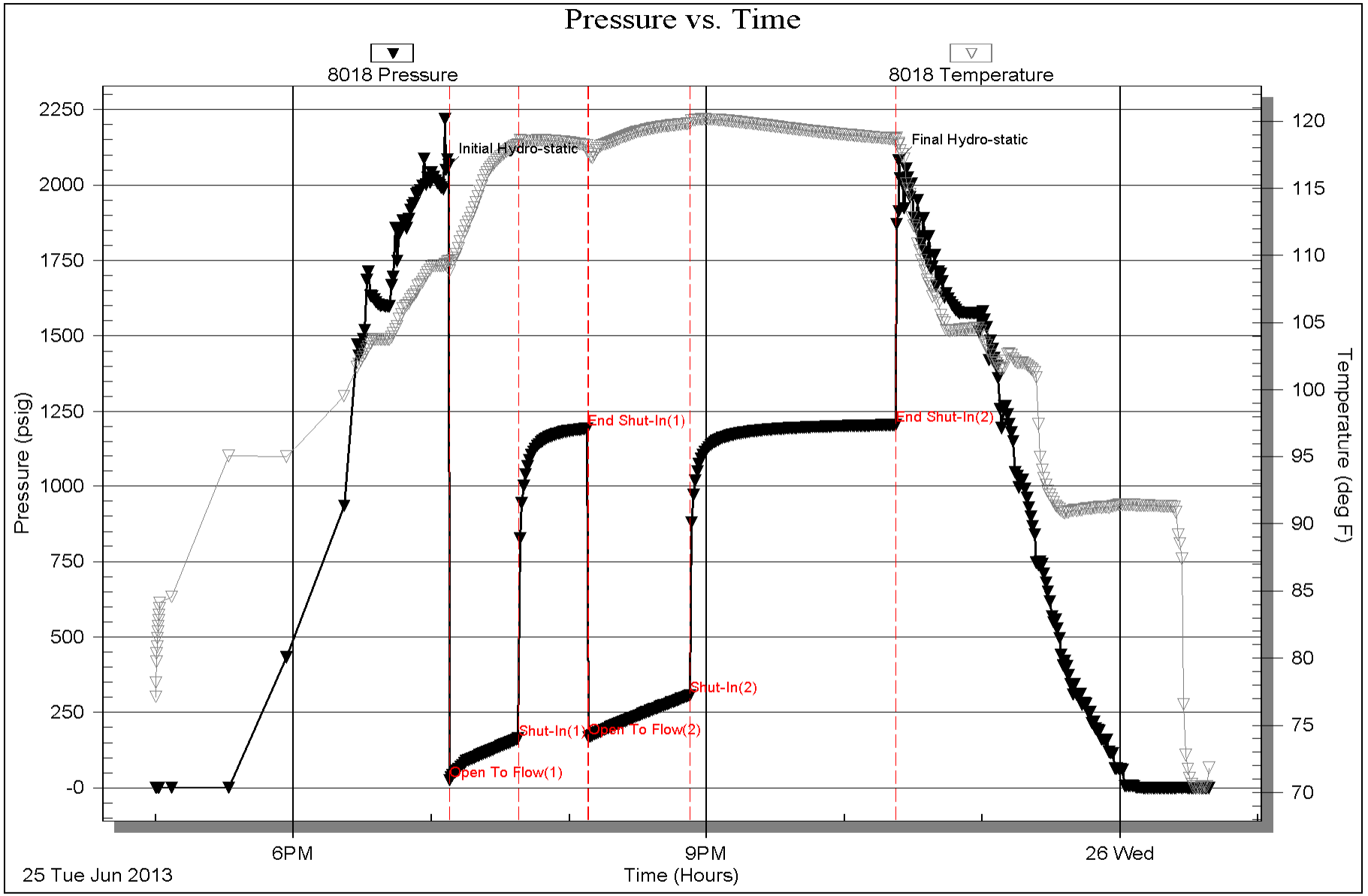
Recovery Table

Length ft	Description	Volume bbl
0.00	RW: .150 @ 68 Degrees F = 52000	0.000
492.00	W 100w	5.553
156.00	WM 20w 80m	2.188
0.00	Oil spots in tool.	0.000

Total Length: 648.00 ft Total Volume: 7.741 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8018 **Inside** Shakespeare Oil Co., Inc. Unruh 1-13 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 51767 Printed: 2013.06.26 @ 07:57:51

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W. Main St
Salem, IL 62881

ATTN: Steve Davis

S13-16-34 Scott, KS

Unruh 1-13

Job Ticket: 51768 **DST#: 2**

Test Start: 2013.06.27 @ 00:35:00

GENERAL INFORMATION:

Formation: **Marmaton A, B, C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:43:00
Time Test Ended: 06:39:50

Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 62

Interval: 4404.00 ft (KB) To 4515.00 ft (KB) (TVD)
Total Depth: 4515.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

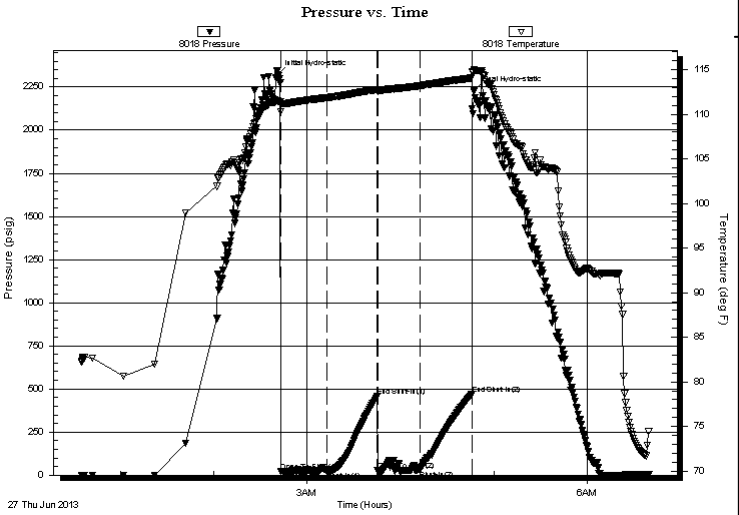
Reference Elevations: 3113.00 ft (KB)
3106.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: 29.73 psig @ 4411.00 ft (KB)
Start Date: 2013.06.27 End Date: 2013.06.27
Start Time: 00:35:02 End Time: 06:39:50

Capacity: 8000.00 psig
Last Calib.: 2013.06.27
Time On Btm: 2013.06.27 @ 02:41:10
Time Off Btm: 2013.06.27 @ 04:47:00

TEST COMMENT: Surface blow died @ 25 min.
No return.
No blow .
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2320.23	111.46	Initial Hydro-static
2	22.04	110.27	Open To Flow (1)
32	23.67	111.85	Shut-In(1)
64	456.87	112.78	End Shut-In(1)
64	25.34	112.53	Open To Flow (2)
91	29.73	113.18	Shut-In(2)
125	469.82	114.07	End Shut-In(2)
126	2230.53	115.03	Final Hydro-static

Recovery

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

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

202 W. Main St
Salem, IL 62881

ATTN: Steve Davis

S13-16-34 Scott, KS

Unruh 1-13

Job Ticket: 51768 **DST#: 2**

Test Start: 2013.06.27 @ 00:35:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

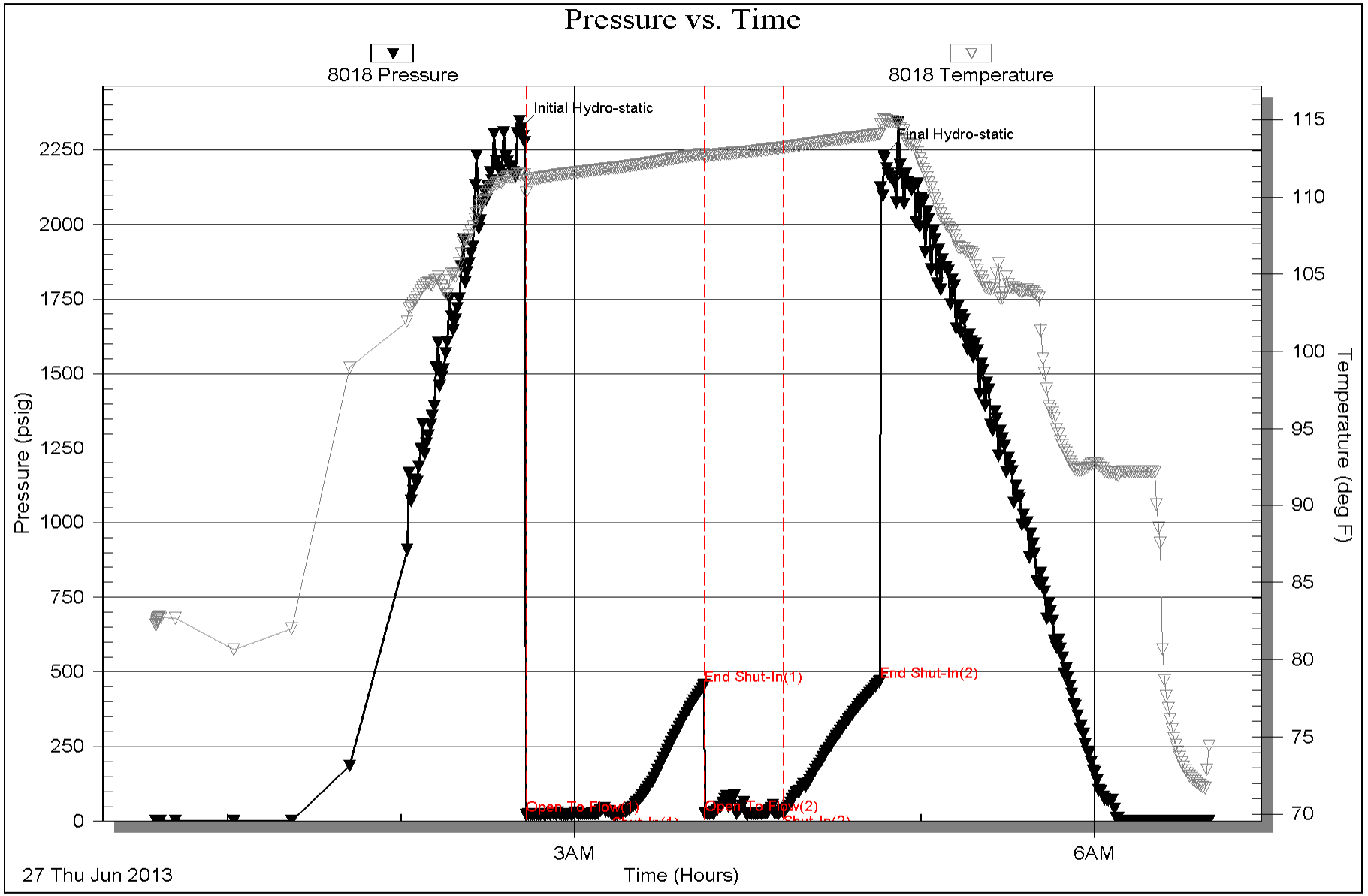
Recovery Table

Length ft	Description	Volume bbl
10.00	M 100m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8018 **Inside** Shakespeare Oil Co., Inc. Unruh 1-13 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 51768 Printed: 2013.06.27 @ 07:45:01

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W. Main St
Salem, IL 62881

ATTN: Steve Davis

S13-16-34 Scott, KS

Unruh 1-13

Job Ticket: 51769 **DST#: 3**

Test Start: 2013.06.27 @ 20:28:00

GENERAL INFORMATION:

Formation: **Pawnee, Ft. Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:30:00
Time Test Ended: 02:31:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 62

Interval: 4507.00 ft (KB) To 4596.00 ft (KB) (TVD)
Total Depth: 4596.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

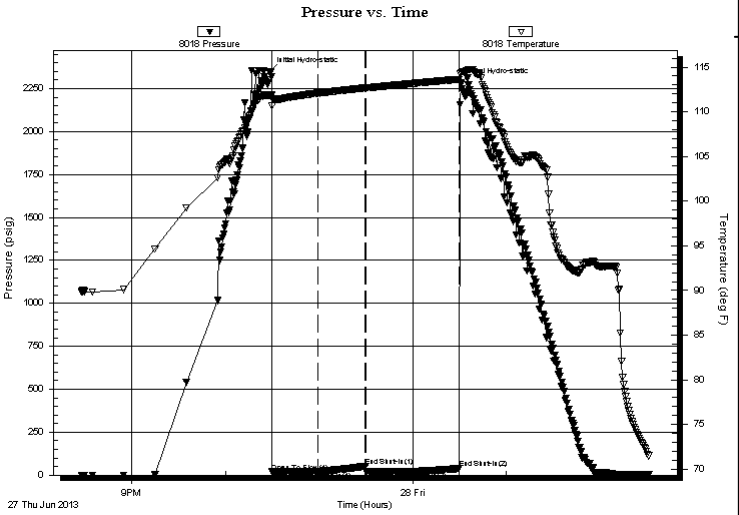
Reference Elevations: 3113.00 ft (KB)
3106.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: 22.96 psig @ 4509.00 ft (KB)
Start Date: 2013.06.27 End Date: 2013.06.28
Start Time: 20:28:02 End Time: 02:31:10

Capacity: 8000.00 psig
Last Calib.: 2013.06.28
Time On Btm: 2013.06.27 @ 22:28:40
Time Off Btm: 2013.06.28 @ 00:30:50

TEST COMMENT: Surface blow died @ 20 min.
No return.
No blow .
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2348.16	111.85	Initial Hydro-static
2	19.52	110.70	Open To Flow (1)
31	22.15	112.07	Shut-In(1)
61	52.58	112.67	End Shut-In(1)
62	20.94	112.64	Open To Flow (2)
92	22.96	113.16	Shut-In(2)
122	38.89	113.63	End Shut-In(2)
123	2283.97	114.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100m	0.02

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

202 W. Main St
Salem, IL 62881

ATTN: Steve Davis

S13-16-34 Scott, KS

Unruh 1-13

Job Ticket: 51769 **DST#: 3**

Test Start: 2013.06.27 @ 20:28:00

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:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

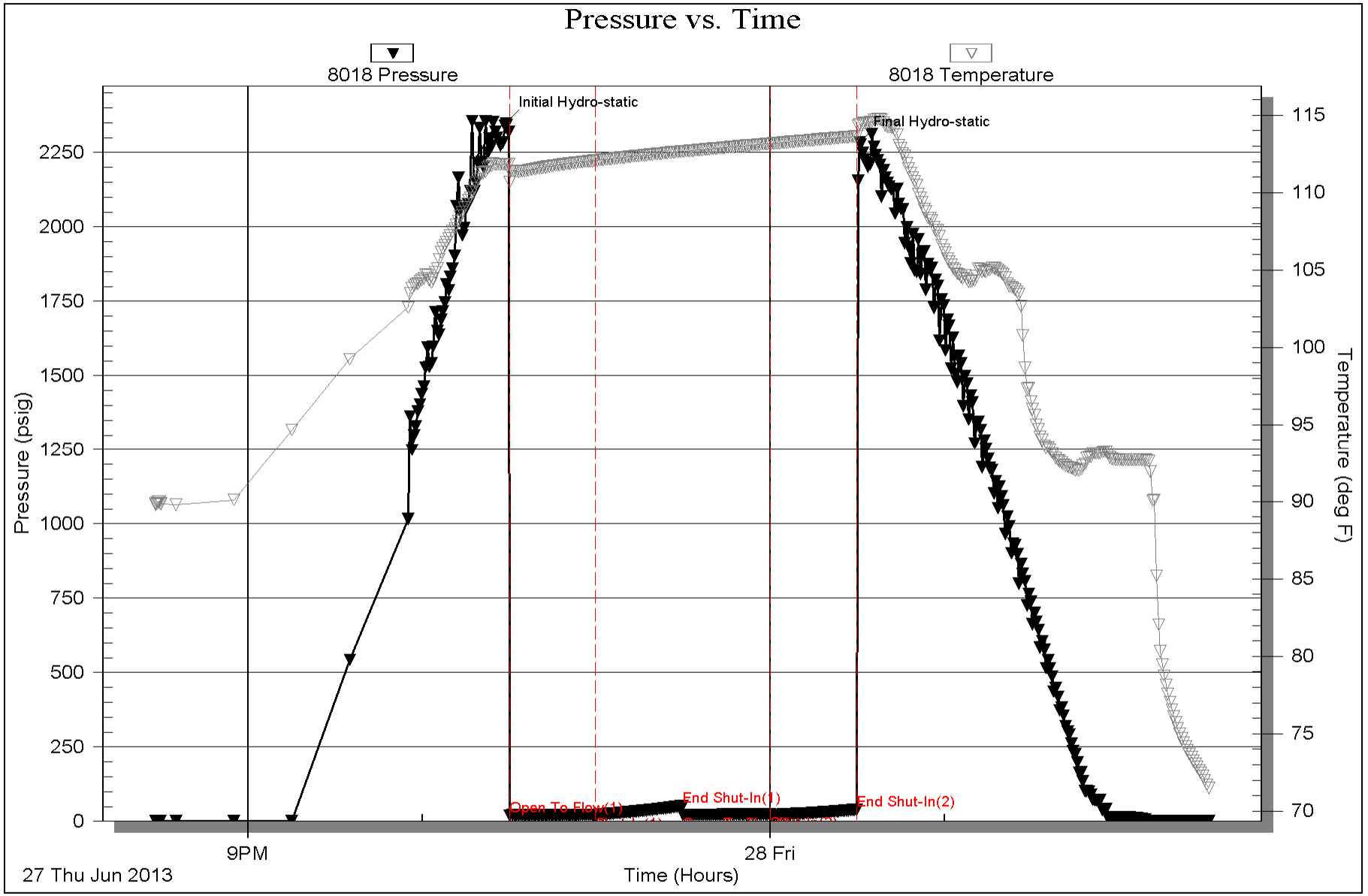
Recovery Table

Length ft	Description	Volume bbl
5.00	M 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8018 **Inside** Shakespeare Oil Co., Inc. Unruh 1-13 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 51769 Printed: 2013.06.28 @ 03:06:20

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W. Main St
Salem, IL 62881

ATTN: Steve Davis

S13-16-34 Scott, KS

Unruh 1-13

Job Ticket: 51770 **DST#: 4**

Test Start: 2013.06.28 @ 14:30:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:24:20
Time Test Ended: 21:47:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 62

Interval: 4610.00 ft (KB) To 4690.00 ft (KB) (TVD)
Total Depth: 4690.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

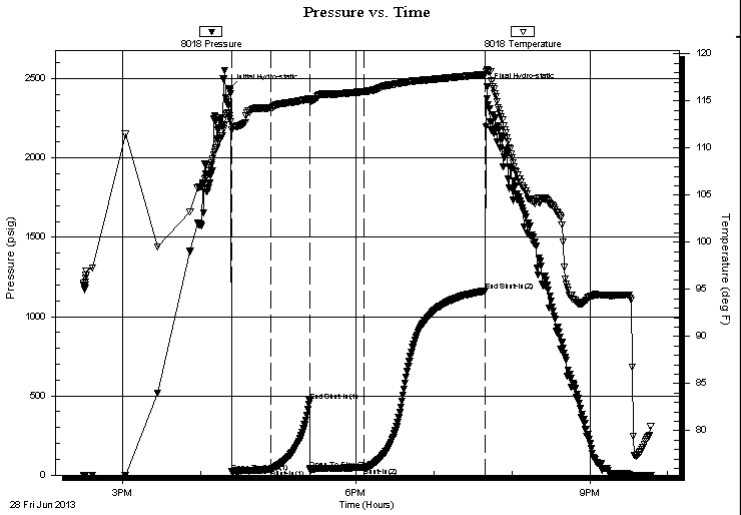
Reference Elevations: 3113.00 ft (KB)
3106.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8018 **Inside**

Press@RunDepth: 48.71 psig @ 4612.00 ft (KB)
Start Date: 2013.06.28 End Date: 2013.06.28
Start Time: 14:30:02 End Time: 21:47:10

Capacity: 8000.00 psig
Last Calib.: 2013.06.28
Time On Btm: 2013.06.28 @ 16:22:20
Time Off Btm: 2013.06.28 @ 19:40:39

TEST COMMENT: 5" Blow .
No return.
B.O.B. @ 44 min.
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2435.84	113.43	Initial Hydro-static
2	21.23	111.91	Open To Flow (1)
32	34.92	114.29	Shut-In(1)
62	468.76	115.25	End Shut-In(1)
63	33.68	115.00	Open To Flow (2)
104	48.71	116.00	Shut-In(2)
198	1163.72	117.82	End Shut-In(2)
199	2447.25	118.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20g 25o 55m	0.30
15.00	GOCM 10g 35o 55m	0.07
0.00	170' Weak GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

202 W. Main St
Salem, IL 62881

ATTN: Steve Davis

S13-16-34 Scott, KS

Unruh 1-13

Job Ticket: 51770 **DST#: 4**

Test Start: 2013.06.28 @ 14:30:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:24:20
Time Test Ended: 21:47:09

Test Type: Conventional Bottom Hole (Reset)
Tester: Chuck Smith
Unit No: 62

Interval: 4610.00 ft (KB) To 4690.00 ft (KB) (TVD)
Total Depth: 4690.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

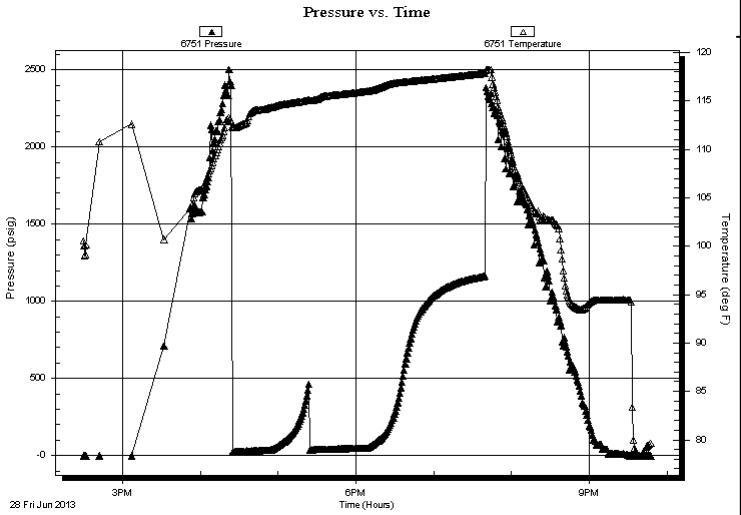
Reference Elevations: 3113.00 ft (KB)
3106.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6751 **Outside**

Press@RunDepth: psig @ 4612.00 ft (KB)
Start Date: 2013.06.28 End Date: 2013.06.28
Start Time: 14:30:05 End Time: 21:47:09

Capacity: 8000.00 psig
Last Calib.: 2013.06.28
Time On Btm:
Time Off Btm:

TEST COMMENT: 5" Blow .
No return.
B.O.B. @ 44 min.
No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 20g 25o 55m	0.30
15.00	GOCM 10g 35o 55m	0.07
0.00	170' Weak GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

202 W. Main St
Salem, IL 62881

ATTN: Steve Davis

S13-16-34 Scott, KS

Unruh 1-13

Job Ticket: 51770 **DST#: 4**

Test Start: 2013.06.28 @ 14:30:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

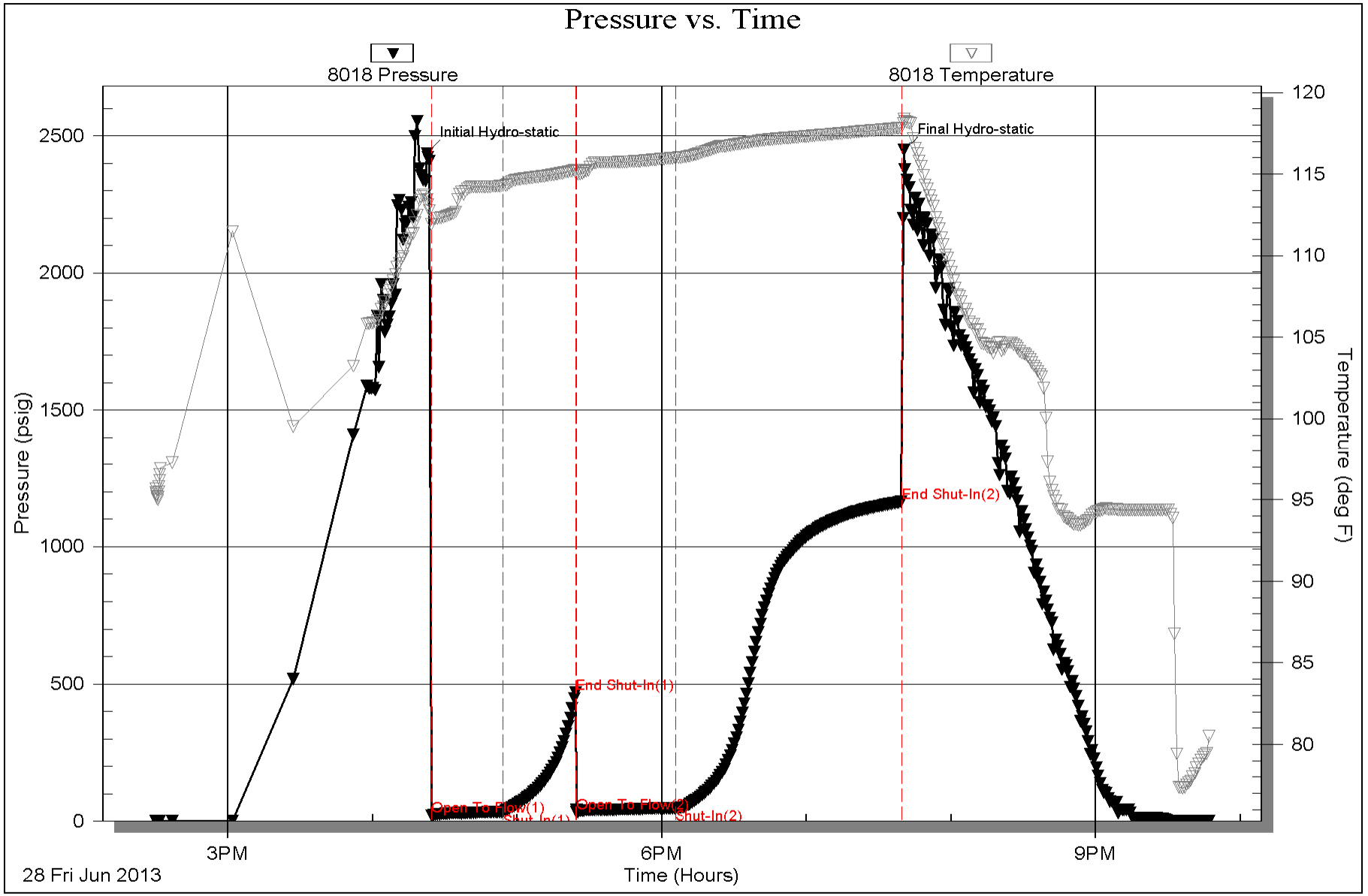
Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM 20g 25o 55m	0.295
15.00	GOCM 10g 35o 55m	0.074
0.00	170' Weak GIP	0.000

Total Length: 75.00 ft Total Volume: 0.369 bbl

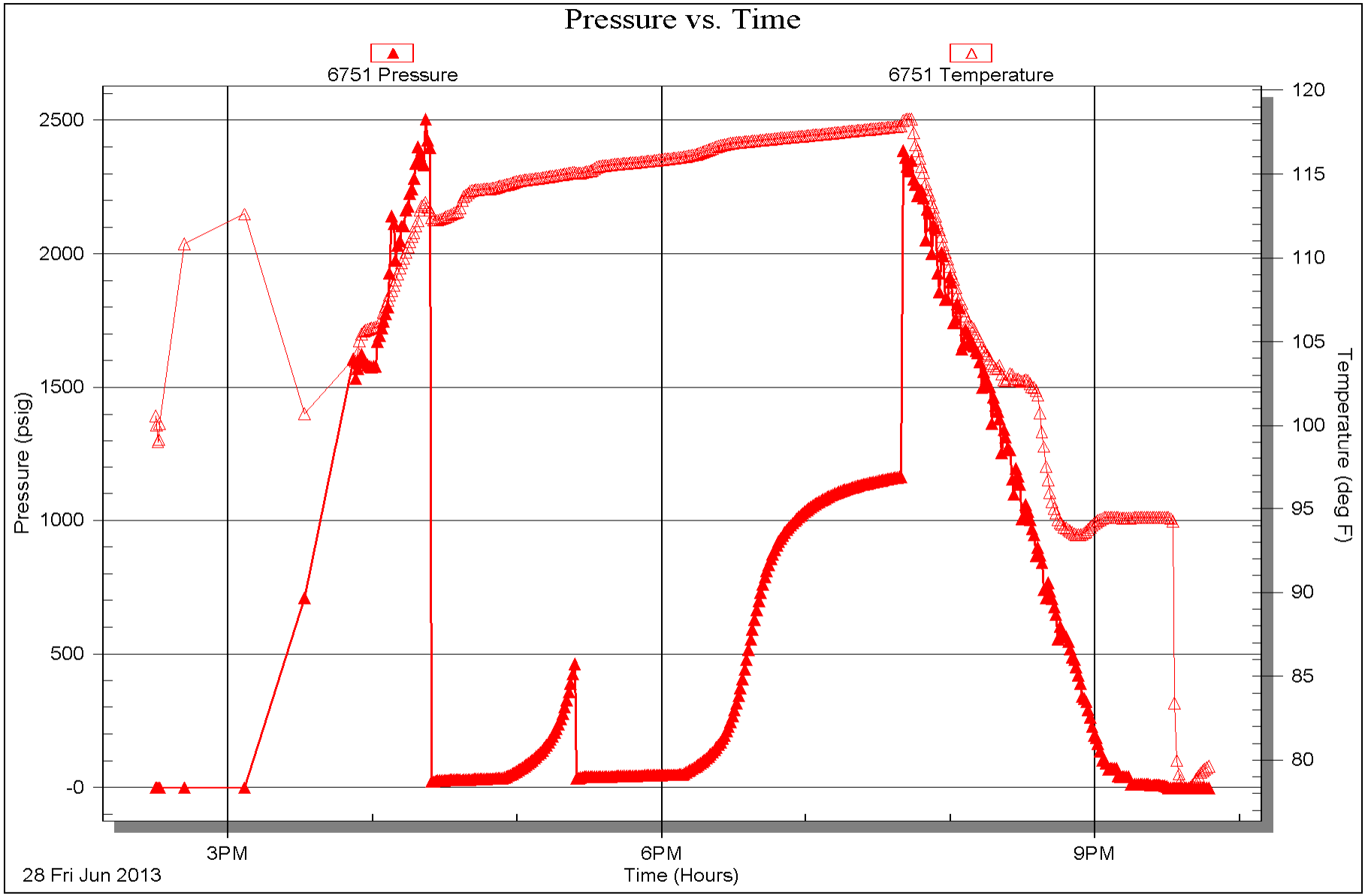
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8018 **Inside** Shakespeare Oil Co., Inc. Unruh 1-13 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 51770 Printed: 2013.06.28 @ 22:42:45

Serial #: 6751 **Outside** Shakespeare Oil Co., Inc. Unruh 1-13 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 51770 Printed: 2013.06.28 @ 22:42:46

SHAKESPEARE OIL COMPANY
UNRUH #1-13
2540' FNL & 520' FWL of Section 13 T16S R34W
SCOTT COUNTY, KANSAS
API# 15-171-20950-00-00

Geologist's Report
WellSight Systems
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	Unruh #1-13		
Location:	2540' FNL & 520'FWL of Section 13 T16S R34W		
License Number:	API#15-171-20950	Region:	Scott County, Kansas
Spud Date:	6/20/2013	Drilling Completed:	6/29/2013
Surface Coordinates:	2540' FNL & 520' FWL		
Bottom Hole Coordinates:	Vertical Test	P & A	
Ground Elevation (ft):	GL 3106	K.B. Elevation (ft):	KB 3113
Logged Interval (ft):	RTD To: 3800	Total Depth (ft):	RTD 4850 LTD 4848
Formation:	Mississippi		
Type of Drilling Fluid:	Chemical (Displace @ 3486)		

Operator

Company: Shakespeare Oil Company, Inc. KLN# 7311
Address: 202 W Main
Salem, IL 62881

Geologist

Name: Richard S.(Steve) Davis Jr.
Company: Consulting Geologist
Address: 221 N. Market, Suite 268
Wichita, Kansas 67202

KB 3113	E-Log Top	Sample Top	Datum
Anhydrite	2444	NA	+669
B/Anhydrite	2463	NA	+650
Heebner	3983	3986	-870
Toronto	4003	4003	-890
Lansing	4025	4027	-912
Muncie Creek	4205	4207	-1092
Stark	4303	4303	-1190
Hushpuckney	4345	4347	-1232
BKC	4387	4392	-1274
Marmaton	4435	4440	-1322
Pawnee	4515	4517	-1402
Fort Scott	4567	4567	-1454
Cherokee SH	4595	4592	-1482
Johnson Zone	4652	4652	-1539
Mississippi	4748	4753	-1635
Total Depth	4848	4850	-1735

DAILY PENETRATION: 7:00 AM

Date	Depth	Activity
06/20/13		spud
06/21	453	drlg
06/22	1990	drlg
06/23	3079	drlg
06/24	3740	drlg
06/25	4225	drlg
06/26	4300	drlg
06/27	4515	CTCH/DST 2
06/28	4635	drlg
06/29	4770	drlg
06/30	4850	P & A

CONTRACTOR:

HD Drilling Rig #3

Toolpusher: Lew Tresner

MUD:

Mud Co (displacement complete @ 3486)

Tony Maestas

CASING RECORD:

Surface: 8 5/8"@ 252'

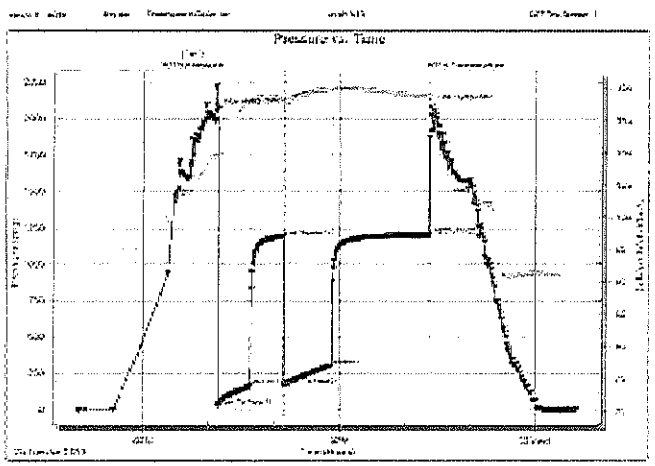
Production: None

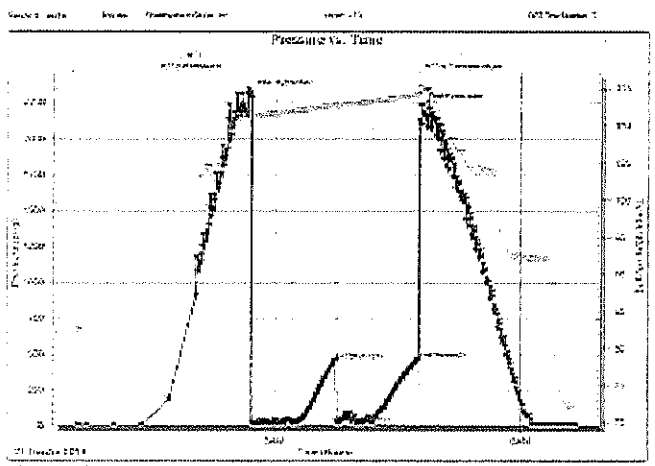
ELECTRIC LOG: Weatherford

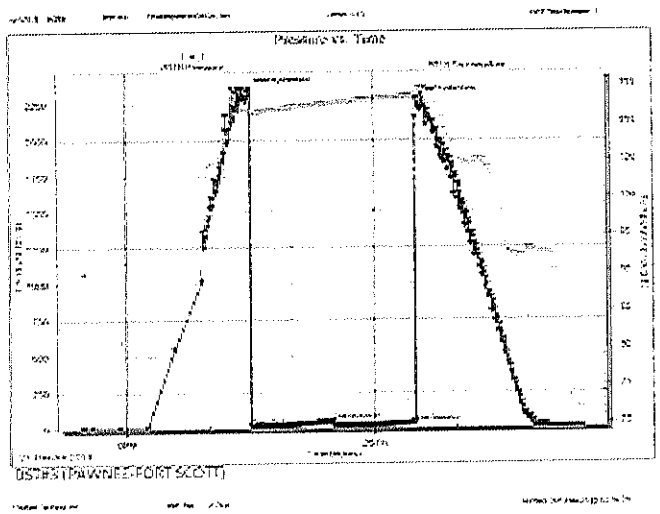
(DIL, CDL/CNL, PE, MEL & Sonic)

BIT RECORD:

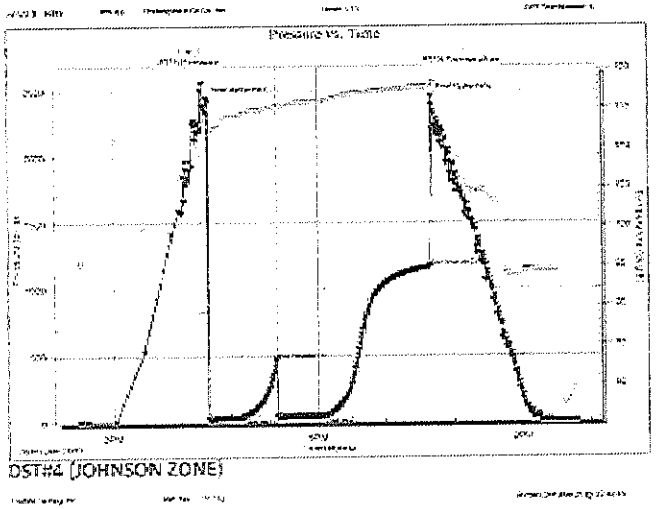
Bit No./Size	Make/Type	Out	Ftg	Hrs
#1/ 12 1/4"	JZ/RT	265	265	1 1/2
#2/ 7 7/8"	JZ/ENP0123	4850	4585	120 1/4







DST#3 (PAWNEE-FORT SCOTT)

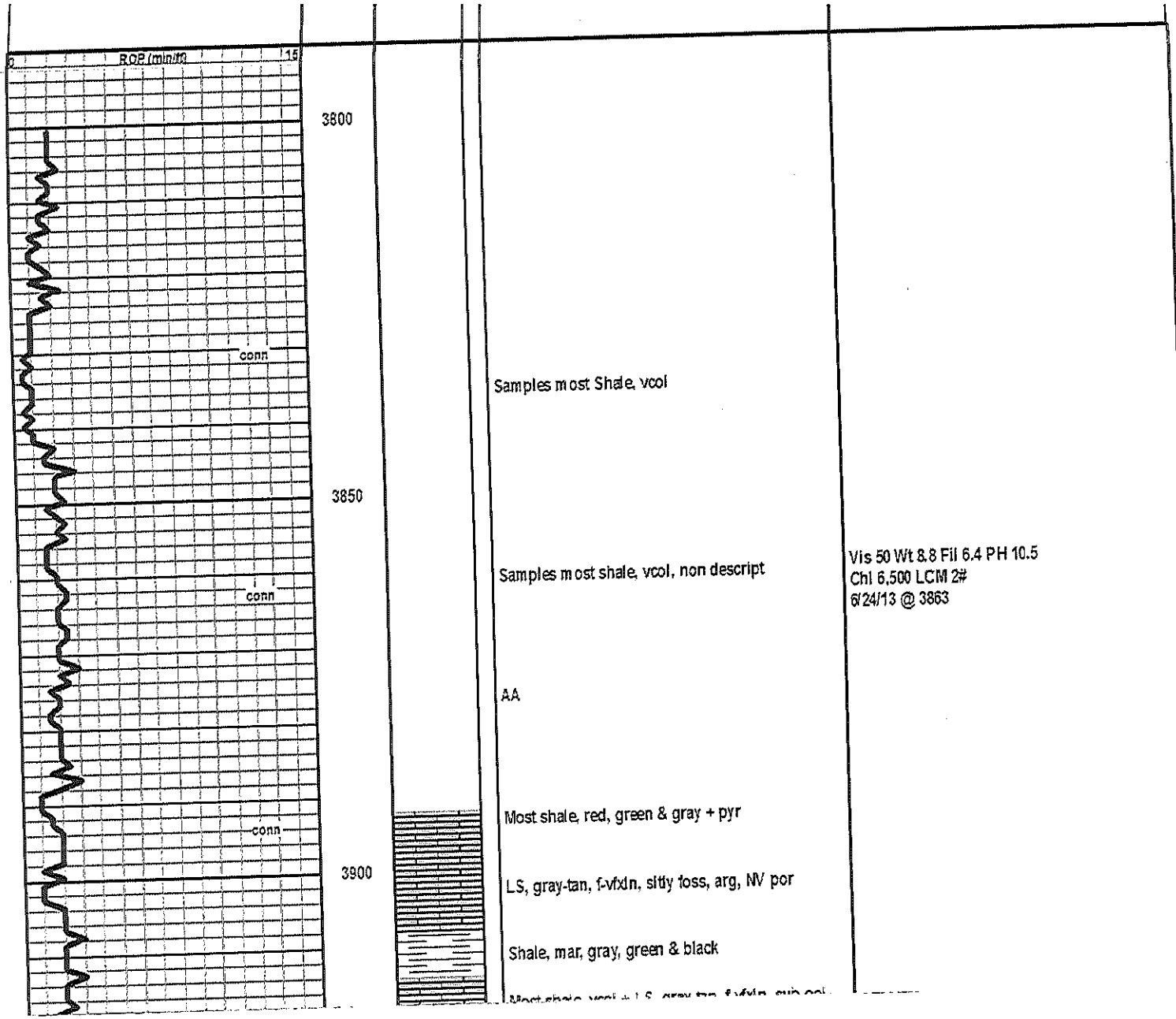


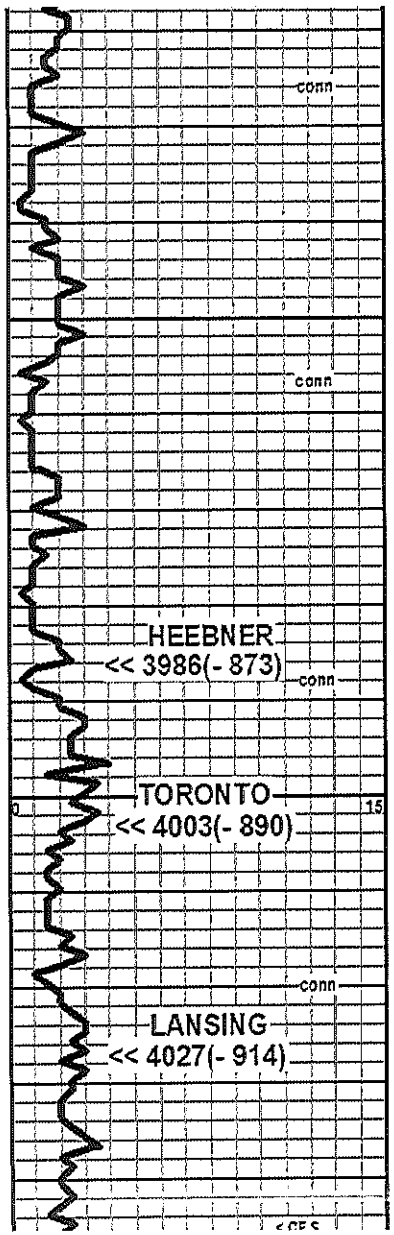
DST#4 (JOHNSON ZONE)

Rock Types

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

ROP (min/ft)	Depth	Lithology	Shows	Geological Descriptions	Remarks
ROP (min/ft) 0 — 15					


ROP (min/ft)
0
15
3800
conn
3850
conn
conn
3900
Samples most Shale, vcol
Samples most shale, vcol, non descript
AA
Most shale, red, green & gray + pyr
LS, gray-tan, f-vfxln, silty foss, arg, NV por
Shale, mar, gray, green & black
Vis 50 Wt 8.8 Fil 6.4 PH 10.5
Chl 6,500 LCM 2#
6/24/13 @ 3863



3950

4000

foss, P pp por, NS

LS, gray-crm, fxln, chky IP, ool & foss, rr P oom por, NS, Most shale vcol

Shale, gray-green & Sltst gray
LS, tan-gray, fxln, arg, silty foss, NV por + Shale, vcol

(Samples poor, most shale vcol)

Vis 53 Wt 8.7

LS, tan-gray, f-vfxln, chky IP, silty foss & ool, P mold por, NS + Shale, vcol

LS, brown-gray, vfxln, sub ool-foss, NV por, dense + LS, gray-tan, fxln, silty foss, arg, NV por

LS, gray-tan, vfxln, ool & foss, NV por

Shale, black carb + pyr

LS, brown-dk gray, vfxln, few foss frag, NV por, dense, Most shale, vcol

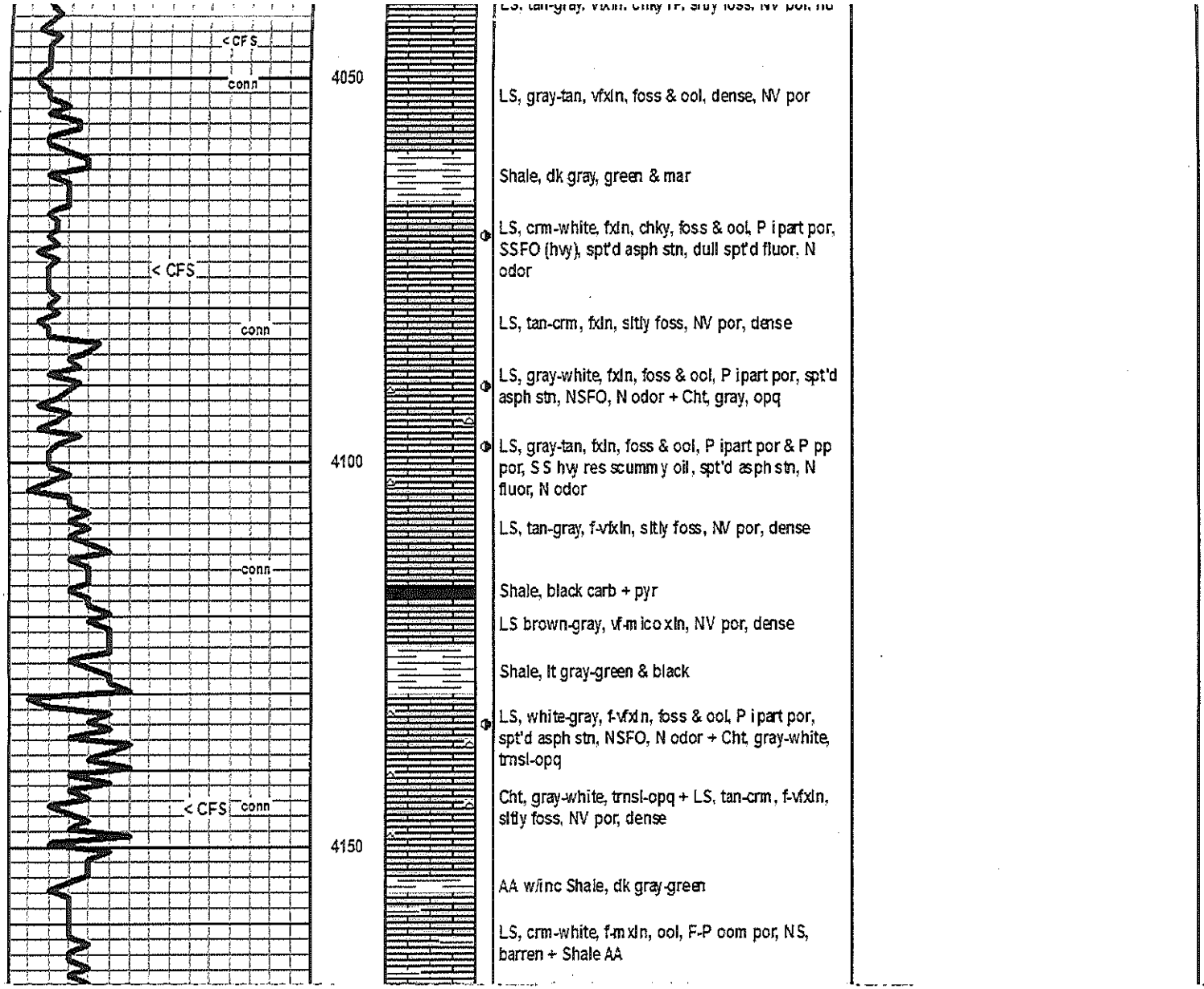
LS, crm-white, fxln, chky IP, sub ool, P oom por, NS + Cht, white, silty foss, Abnt shale, vcol

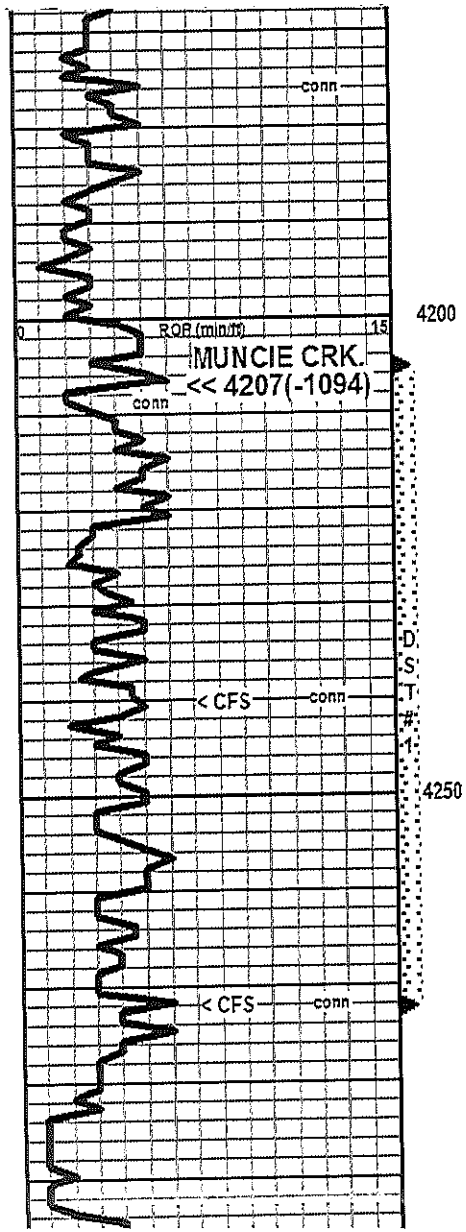
Most shale, red, green gray, black

Shale, dk gray, black, green & mar

LS, tan-gray, f-vfln, foss & ool, chky, P ixln por, NS, hd, abnt shale vcol

LS, tan-gray, vfxln, chky IP, silty foss, NV por, hd


< CFS
conn
4050
< CFS
conn
4100
conn
< CFS
conn
4150
LS, tan-gray, vfxln, chky FP, slty foss, NV por, no
LS, gray-tan, vfxln, foss & ool, dense, NV por
Shale, dk gray, green & mar
LS, crm-white, fxln, chky, foss & ool, P ipart por, SSFO (hvy), spt'd asph stn, dull spt'd fluor, N odor
LS, tan-crm, fxln, sltly foss, NV por, dense
LS, gray-white, fxln, foss & ool, P ipart por, spt'd asph stn, NSFO, N odor + Cht, gray, opq
LS, gray-tan, fxln, foss & ool, P ipart por & P pp por, S S hvy res scummy oil, spt'd asph stn, N fluor, N odor
LS, tan-gray, f-vfxln, sltly foss, NV por, dense
Shale, black carb + pyr
LS brown-gray, vf-micoxln, NV por, dense
Shale, lt gray-green & black
LS, white-gray, f-vfxln, foss & ool, P ipart por, spt'd asph stn, NSFO, N odor + Cht, gray-white, trnsl-opq
Cht, gray-white, trnsl-opq + LS, tan-crm, f-vfxln, sltly foss, NV por, dense
AA w/inc Shale, dk gray-green
LS, crm-white, f-mxln, ool, F-P oom por, NS, barren + Shale AA



LS, crm-white, fxln, sub ool, NV por + Cht, white, opq

LS A A + Dolo, tan, f-vfxln, P ixln por, NS, hd

LS, dolo, tan-crm, f-vfxln, sub ool, NV por

LS, brown-gray, vfxln, foss & ool, NV por, dense

Shale, black, carb

LS, brown-gray, vfxln, NV por, dense

Shale, black, gray, m ar

LS, crm-white, fxln, sub ool, chky, V P oom & iool por, NSFO, ? spt'd stn + LS, dolo, tan-brown, f-mxln, P ixln por, VSSFO, spt'd lt stn, dull spt'd fluor, N odor + Cht, white-gray, opq

Shale, black carb-sub carb

LS, gray-brown, f-mxln, sltly foss, NV por, dense

Shale, black-dk gray & green

LS, gray-brown, f-mxln, few pc's F-P ixln por, FSFO, spt'd stn, dull fluor, V fnt odor + LS, brown-gray, sltly mot, f-vfxln, chky IP, sltly foss, NV por, hd

Shale, gray, green & black

LS, gray-tan, fxln, ool, chky IP, G oom & F-G ooc por, 2 pc's black asph stn (dry spl), NSFO, N fluor, N odor

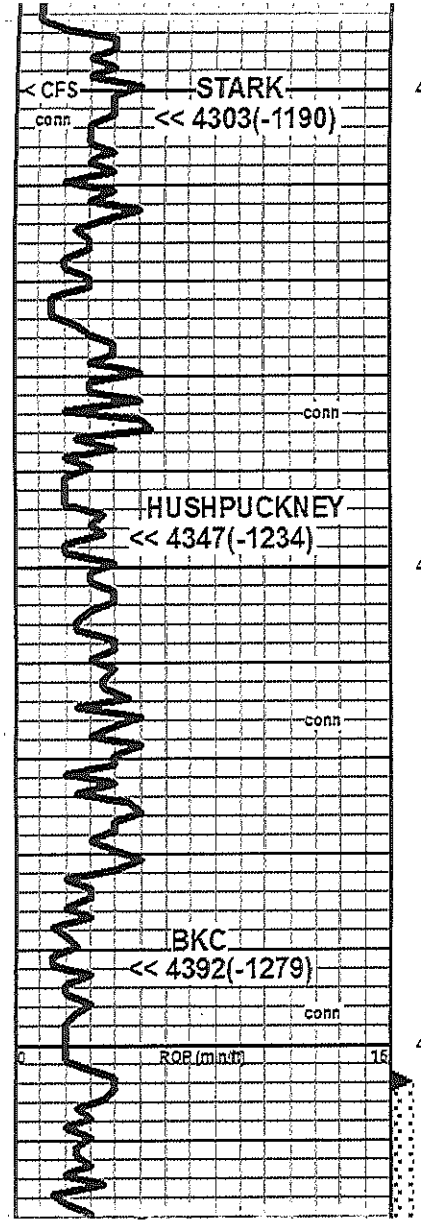
LS, tan-brown, vfxln, sub ool, NV por, dense

Pipe Strap @ 4272. .11 strap long
Survey 1

DST#1 4205 - 4272
(Lansing H & I)
30 30 45 90
BLOW:
IF BOB 16 min
FF BOB 18 min
(No return ISI or FSI)
RECOVERY:
156' WM (20% w 80% m)
492' W (100% w)
648' TOTAL FLUID
(Chl 52,000, oil spots in tool)
IHP 2051
IFP 26 - 164
ISIP 1193
FFP 168 - 307
FSIP 1205
FHP 2082 BHT 119 F

Vis 48 Wt 9.2 Fil 8.8 PH 11
Chl 6,000 LCM 2#
6/25/13 @ 4240

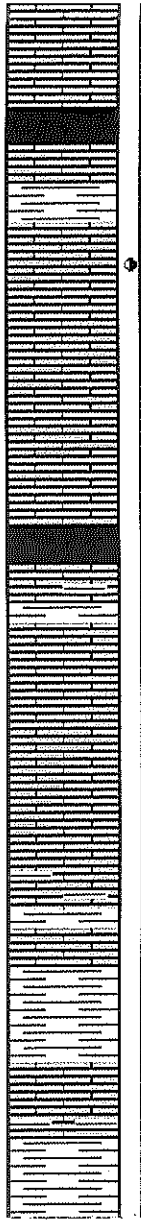
Vis 54 Wt 9.1 Fil 8.8 PH 11
Chl 7,000 LCM 3#



4300

4350

4400



LS, tan-brown, vfxln, sub ool, NV por, dense

Shale, black carb

LS, tan-brown, f-vfxln, NV por, dense

Shale, gray, mar & black

LS, tan-gray, f-vfxln, F-P oom-vgy por, SS scummy res oil, rare spt'd asph stn, N fluor, N odor

LS, crm-gray, f-vfxln, chky, sub ool, P oom por, most NV por, NS

LS, tan-crm, f-mxln, sub ool, P oom por, NS, most NV por, dense

Shale, black carb

Abnt Shale, black, green, mar & gray

LS, brown-gray, f-mxln, silty foss, NV por, dense (Abnt shale vcol)

LS, brown-gray, vfxln, silty foss & ool, P oom por-pp por, NS (Abnt shale vcol)

Most shale, black, gray, green & mar +LS, brown-gray, f-vfxln, silty foss, NV por

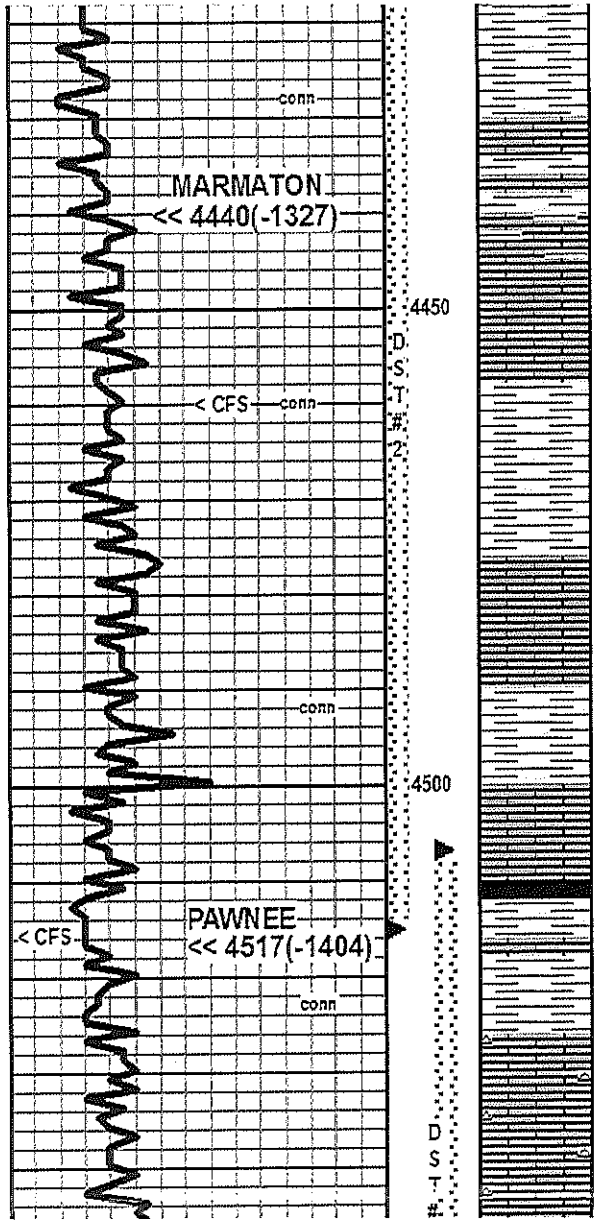
Shale, black, gray, green & mar

LS, crm-tan-dk brown, vfxln, ool & foss, few pc's por vgy por, dense + Shale vcol

Shale, mar, black gray & green some silty + pyr

Vis 54 Wt 9.1 Fil 8.8 PH 11
Chl 7,000 LCM 3#
6/26/13 @ 4298

Vis 54 Wt 9.1



LS, tan-brown, vfxln, sltly ool & foss, rare vgy por, ? spt'd stn, NSFO, N fluor, N odor

Most shale, vcol + LS, gray-green, fxln, arg, NV por

LS, crm-white, vfxln, foss & ool, F-P oom-vgy por, hd, rare spt'd gils stn, NSFO, N fluor, N odor

cfs spls, Inc shale, black, gray, brown & mar + LS, brown-gray, vfxln, NV por, dense

Most shale, gray, black, mar & dk green

LS, brown-tan & gray, mot, vfxln, foss & ool, NV por

LS, dk brown-gray, vf-micro xln, NV por, dense

Shale, mar, black, gray & green

LS, brown-gray, f-vfxln, foss & sub ool, few pc's P vgy por, NS, dense + Shale vcol

Shale, black carb, dk gray, mar & green + pyr + LS, brow-tan, vfxln, sltly foss, NV por, dense

Shale, gray, green & mar

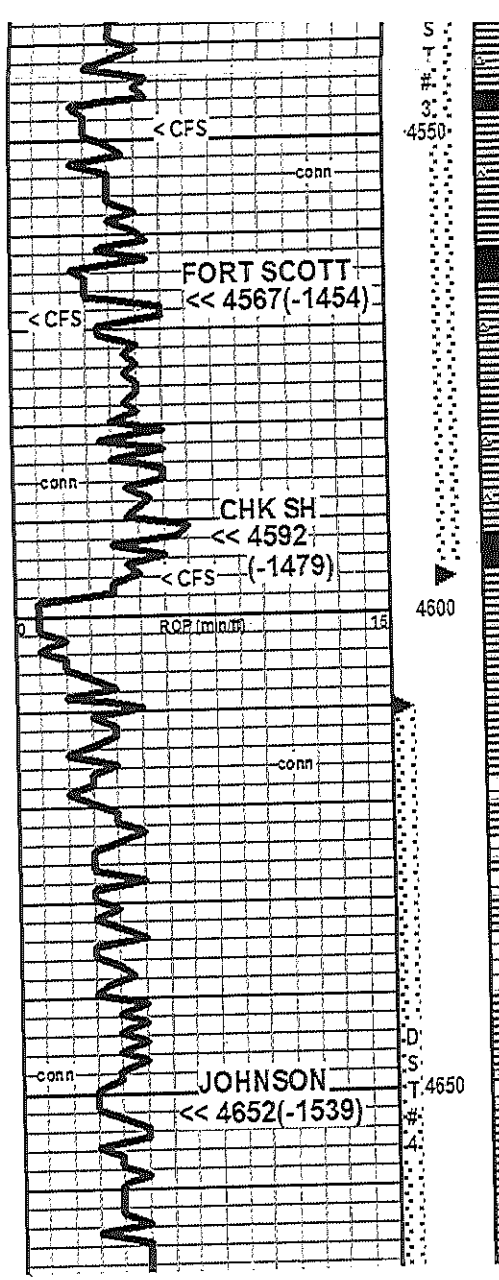
LS, crm-tan, f-mxln, sub ool, P ixln & P vgy-pp por, SSFO, spt'd-unf lt stn, dull fluor, V fnt odor + Cht, tan-gray, trnsl

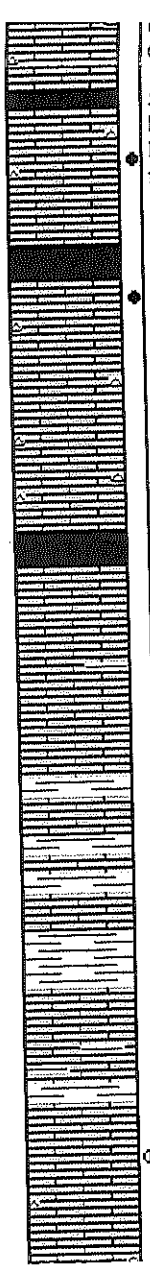
LS, tan-gray, mot, f-mxln, sltly foss, NV por, dense

DST#2 4404 - 4515
(Marmaton A, B & C)
30 30 30 30
BLOW:
IF Surface blow died 25 min
FF No blow
RECOVERY:
10'M (100% m)
IHP 2320
IFP 22 - 24
ISIP 457
FFP 25 - 30
FSIP 470
FHP 2231 BHT 114 F

Vis 48 Wt 9.2 Fil 9.6 PH 10
Chl 7,000 LCM 3#
6/27/13 @ 4515

DST#3 4507 - 4596
(Pawnee-Fort Scott)
30 30 30 30
BLOW:
IF Surface died 20 min
FF No blow
RECOVERY:





dense

Shale, black carb

LS, crm-tan, f-mxln(few crs), sub ool, P ixln por, FSFO on brk w/ gas bub, unf stn, dull spt'd fluor, F odor + Cht dk brown-gray, trnsl-opq

Shale, black carb

LS, brown-tan, f-mxln, foss & ool, P ixln por & P vgy-pp por, FSFO on brk w/ gas bub, unf stn, dull unf fluor, F odor + Cht, brown-gray, foss, trnsl-opq

LS, dk gray-brown, f-vfxln, foss & ool, NV por, dense + Cht, brown-gray, slty foss, opq

Shale, black, carb

LS, gray-brown, foss & ool, P pp por, spt'd stn, NSFO + LS, white-gray, fxln, sub ool, chky, NV por

Shale, gray, green & mar + LS, gray-brown, vfxln, slty foss & ool, NV por, hd

Shale, black, mar, green & gray + LS crm-tan, fxln, chky IP, ool & foss, P vgy por, NS

Abnt Shale vcol + LS, brown-gray, f-vfxln, foss & sub ool, NV por, dense

Shale, black, gray green & mar

LS, tan-gray, f- vfxln, foss & ool, NV por + Shale vcol

Shale, dk gray-black & mar

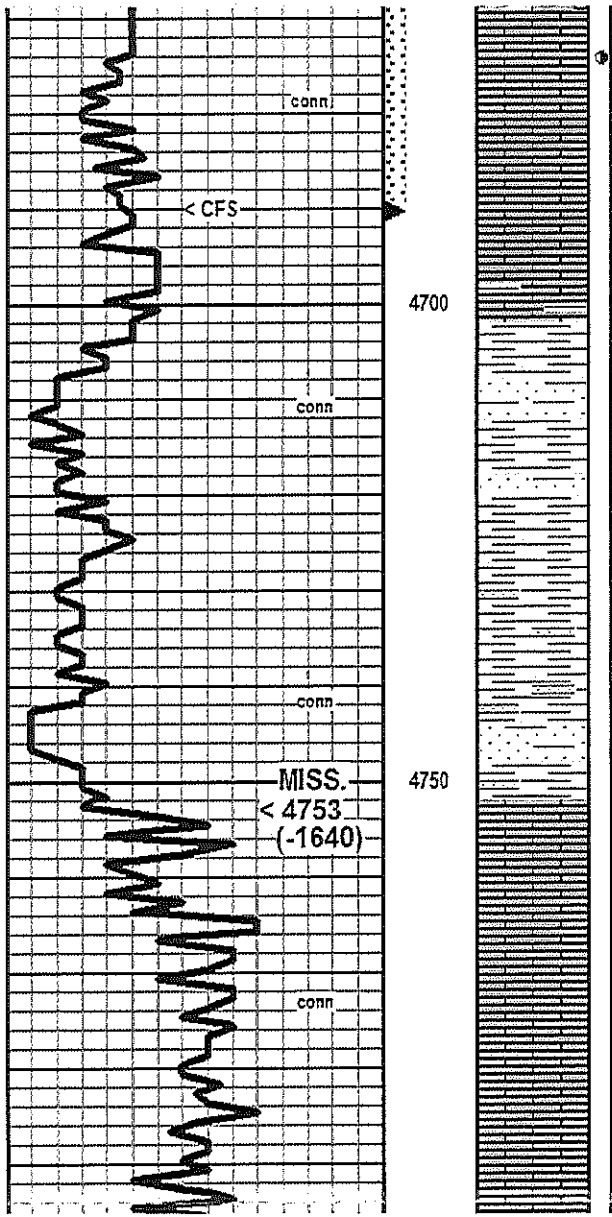
LS, brown-gray, f- vf xln, slty foss, rare P vgy-pp por, S SFO, spt'd dk stn, spt'd dull fluor, V fnt odor (abnt shale, vcol)

LS, brown-gray, f-vfxln, slty foss, dense, NV por + Cht, brown-tan, trnsl-opq, slty foss (abnt shale,

IF Surface died 20 limit
FF No blow
RECOVERY:
5' M
IHP 2348
IFP 20 - 22
ISIP 53
FFP 21 - 23
FSIP 39
FHP 2284 BHT 114 F

Vis 55 Wt 9.4 Fil 9.6 PH 10.5
Chl 8,000 LCM 2#
6/28/13 @ 4658

DST #4 4610 - 4690
(Johnson Zone)
30 30 45 90



vcol)

LS, brown-gray, f-vfxln, foss & ool, few pc's P vgy-pp por, S SFO, spt'd lt st, N fluor, fnt odor (abnt shale, vcol), V fnt odor

LS, gray-white, f-vfxln, P pp por, S SFO(hvy), spt'd dk stn, N fluor + LS, tan-gray, fxln, chky IP, NV por, dense

LS A A w/inc Shale, mar, gray, green & black

Abnt shale, vcol + SS, green, white-clr qtz, f-vfgrn, sub rd, mod sort, fri-comp, F-G ig por, NS

Few clus SS, gray-green, vfgrn, rd, well sort, comp, F ig por, NS + Shale, gray, black, mar & green

Most Shale, gray, green, mar, black + few SS clus, gray-green, vfgrn, well sort, rd, comp, F-P ig por, NS

SS, clr qtz-gray & green, f-vfgrn, rd-sub rd, sltly glauc, comp-fri, G ig por, NS + Shale, vcol

Ls, white-tan, fxln, chky IP, sdy, f-vf grn, NV por (Spl 95% shale slough)

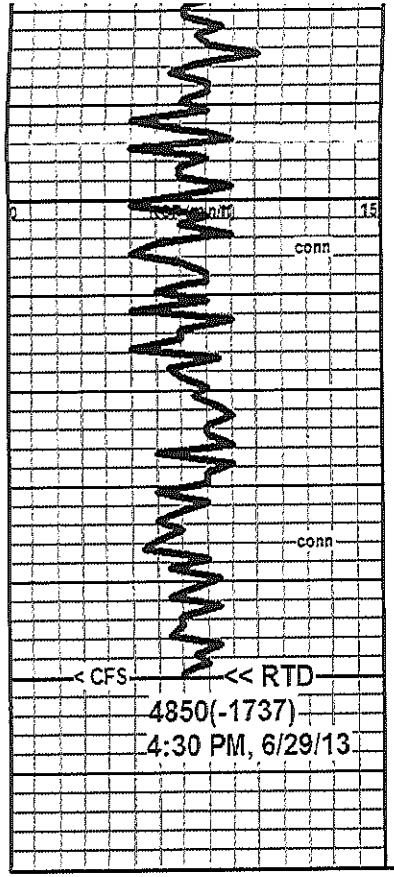
LS, white-crm, fxln, chky, sdy, f-vfgrn, NV por, hd (most shale vcol)

LS, white-crm, chky, sdy, fgrn, NV por

LS, white-crm, chky IP, sdy, f-vfgn, sub ool, NV por (Spl most shale slough)

BLOW:
IF Weak built to 5"
FF BOB 44 min
(No return ISI or FSI)
RECOVERY: 170' GIP
15' GOCM (10%g 35%o 55%m)
60' GOCM (20%g 25%o 55%m)
75' TOTAL FLUID
IHP 2436
IFP 21 - 35
ISIP 469
FFP 34 - 49
FSIP 1164
FHP 2447 BHT 119 F

Vis 53 Wt 9.3 Fil 8.8 PH 10
Chl 7,400 LCM 2#
6/29/13 @ 4785



4800

4850

LS, white-crm, chky IP, sdy, f-vfgn, sub ool, NV por (Spl most shale slough)

LS, white-lt gray, fxln, slty sdy & ool, chkly, NV por, V fine (Spl 95% shale slough)

(Shale vcol, slough)

LS, white, f-vfxln, chky, sub ool, NV por, hd

LS, white-crm, fxln, chky IP, sub ool, NV por, hd

95% Shale, gray, black, green, mar & red + LS, tan-white, f-vfxln, chky IP, sub ool

Vis 53 Wt 9.3 Fil 8.8 PH 10
Chl 7,400 LCM 2#
6/29/13 @ 4785

Vis 54 Wt 9.5

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

July 18, 2013

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

Re: ACO1
API 15-171-20950-00-00
Unruh 1-13
NW/4 Sec.13-16S-34W
Scott County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Don Williams