



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1225796
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: _____

1225796

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: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Stoll 1-22
Doc ID	1225796

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Sonic
Microlog

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Stoll 1-22
Doc ID	1225796

Tops

Name	Top	Datum
Base Anhydrite	2468	+672
Heebner	3988	-848
Lansing	4030	-890
Muncie Creek	4212	-1072
Stark Shale	4313	-1173
Hushpuckney	4355	-1215
Pawnee	4531	-1391
L. Cherokee Shale	4608	-1468
Johnson	4651	-1511
Morrow Shale	4722	-1582
Mississippian	4804	-1664



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 145665
Invoice Date: Sep 9, 2014
Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Shak	63717	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	Sep 9, 2014	10/9/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Stoll #1-22		
225.00	CEMENT MATERIALS	Class A Common	17.90	4,027.50
423.00	CEMENT MATERIALS	Gel	0.50	211.50
634.00	CEMENT MATERIALS	Chloride	1.10	697.40
236.28	CEMENT SERVICE	Cubic Feet Charge	2.48	585.97
499.50	CEMENT SERVICE	Ton Mileage Charge	2.75	1,373.63
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	Charles Kinyon		
1.00	OPERATOR ASSISTANT	Brian Lang		
1.00	EQUIPMENT OPERATOR	Daniel Casper		

INT



DW

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

\$ 2,238.19

ONLY IF PAID ON OR BEFORE Oct 9, 2014

Subtotal	8,952.75
Sales Tax	402.32
Total Invoice Amount	9,355.07
Payment/Credit Applied	
TOTAL	9,355.07

10502-5
KJ

ALLIED OIL & GAS SERVICES, LLC 063717

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Great Bend

DATE <u>9-9-14</u>	SEC. <u>22</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>1:00 am</u>	JOB START <u>2:30 am</u>	JOB FINISH <u>3:00 am</u>
LEASE <u>stall</u>	WELL # <u>1-22</u>		LOCATION <u>plence 2E S clark</u>		COUNTY <u>Wichita</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Southwind 70
TYPE OF JOB Repace
HOLE SIZE 12 1/2 T.D. 266
CASING SIZE 8 5/8 244 DEPTH 266
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT H2O 15.98 BBL

OWNER Name
CEMENT
AMOUNT ORDERED 225 cu class A 31' cc
21' gel

EQUIPMENT
PUMP TRUCK CEMENTER Charles King
398 HELPER Brian Lang
BULK TRUCK
609-239 DRIVER Dan Casper
BULK TRUCK
DRIVER

COMMON 225 @ 17.90 4027.50
POZMIX @
GEL 423 @ .50 211.50
CHLORIDE 634 @ 1.10 697.40
ASC.

Materials total 4936.40
Disc 25% 1234.10
Service
HANDLING 236.28 @ 2.48 585.97
MILEAGE 11.10 x 45 x 2.75 1373.63

REMARKS:

Rig ran 266' 8 5/8 casing broke circ
21' Rig mud hook to head pump
5 BBL H2O mix 225 cu class A 31'
cc 21' gel displace 15.98 BBL H2O
that 21' cement did circulate

DEPTH OF JOB 266
PUMP TRUCK CHARGE 1512.25
EXTRA FOOTAGE @
MILEAGE Hum 45 @ 7.70 346.50
MANIFOLD @
Hum 45 @ 4.40 198.00

CHARGE TO: Shakespeare oil co
STREET
CITY STATE ZIP

TOTAL -4016.35
Disc 25% 1004.09

PLUG & FLOAT EQUIPMENT

Thank you!
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.

@
@
@
@
@

0% TOTAL 0

PRINTED NAME K Sja & S TAYLOR

SALES TAX (If Any)
TOTAL CHARGES 8,952.75
DISCOUNT 25% 2,238.19 (25/25/0)
IF PAID IN 30 DAYS

SIGNATURE Dan Casper

6,714.56



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 145812

Invoice Date: Sep 19, 2014

Page: 1

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

Customer ID	Field Ticket #	Payment Terms	
Shak	64235	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Sep 19, 2014	10/19/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Stoll #1-22		
280.00	CEMENT MATERIALS	Light Weight 60/40/4% Gel	18.92	5,297.60
70.00	CEMENT MATERIALS	Flo Seal	2.97	207.90
300.72	CEMENT SERVICE	Cubic Feet Charge	2.48	745.79
565.20	CEMENT SERVICE	Ton Mileage Charge	2.75	1,554.30
1.00	CEMENT SERVICE	Plug to Abandon ✓	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	EQUIPMENT OPERATOR	Paul Beaver		
1.00	OPERATOR ASSISTANT	Brandon Wilkinson		

INT

10502-5
gr

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

\$ 2,708.42

ONLY IF PAID ON OR BEFORE

Oct 19, 2014

Subtotal	10,833.68
Sales Tax	882.94
Total Invoice Amount	11,716.62
Payment/Credit Applied	
TOTAL	11,716.62

DW

ALLIED OIL & GAS SERVICES, LLC 064235

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>9-19-14</u>	SEC. <u>22</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION <u>1:50 a.m.</u>	JOB START <u>7:00 a.m.</u>	JOB FINISH <u>12:00 a.m.</u>
LEASE <u>Stoll</u>	WELL# <u>1-22</u>	LOCATION <u>Pence 1/2 S Girto</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>			
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Southwind 70
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D. 4220'
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 2460'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT Sugar 22.87 mod
 EQUIPMENT _____

OWNER Same
 CEMENT AMOUNT ORDERED 280 sks 60/40/44
gel 1/4" Flo-seal
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
Lite 60/40/4 280 sks @ 18.92 5297.60
Flo-seal 70" @ 2.97 207.90
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 300.72 @ 3 @ 2.48 745.79
 MILEAGE 12.56 hrs @ 45 mi @ 6.975 1589.30
 TOTAL _____

PUMP TRUCK # 431 CEMENTER Paul Beaver
 HELPER Brandon Wilkinson
 BULK TRUCK # 890/241 DRIVER Juan I (JWS)
 BULK TRUCK # _____ DRIVER _____

REMARKS:
mix 50 sks @ 2460' Displace w/ mod
mix 80 sks @ 1560' Displace w/ water
mix 50 sks @ 780'
mix 50 sks @ 300'
mix 30 sks @ 60'
mix 30 sks @ in Rtt.

SERVICE
 DEPTH OF JOB 2460'
 PUMP TRUCK CHARGE 2463.59
 EXTRA FOOTAGE _____ @ _____
 MILEAGE MLV 45 @ 7.70 346.50
 MANIFOLD _____ @ _____
MLV 45 @ 4.40 198.00
 _____ @ _____
 TOTAL 2,308.18

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

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

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

PRINTED NAME Sam Stapp
 SIGNATURE Sam Stapp

SALES TAX (If Any) _____
 TOTAL CHARGES 10,833.68
 DISCOUNT 2,108.90 (25%) IF PAID IN 30 DAYS
8,724.78 Net



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

22-16s-34w Scott

202 W Main St
Salem IL , 62881

Stoll 1-22

Job Ticket: 57463

DST#: 1

ATTN: Steve Davis

Test Start: 2014.09.15 @ 17:00:00

GENERAL INFORMATION:

Formation: **Marmaton A**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 19:02:30

Time Test Ended: 23:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Justin Harris

Unit No: 60

Interval: 4422.00 ft (KB) To 4490.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

3128.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 8373 Inside

Press @ Run Depth: 41.79 psig @ 4423.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.15 End Date: 2014.09.15

Last Calib.: 2014.09.15

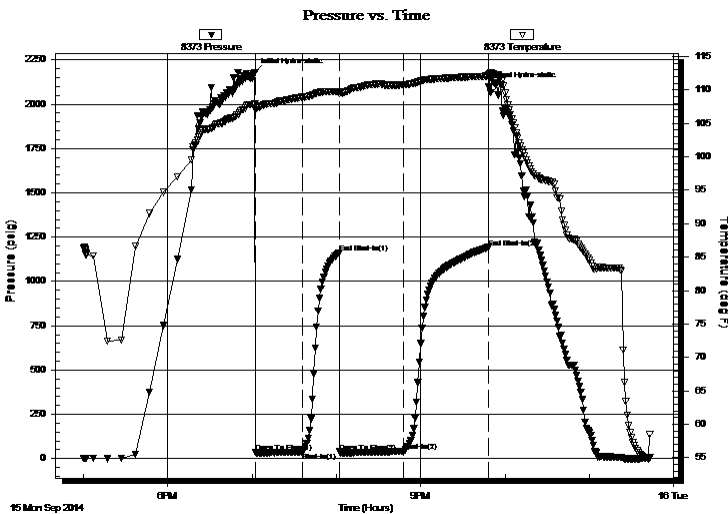
Start Time: 17:00:05 End Time: 23:42:59

Time On Btm: 2014.09.15 @ 19:02:00

Time Off Btm: 2014.09.15 @ 21:48:30

TEST COMMENT: 30: Weak Surface blow build to 1".
30: No Return.
30: Weak surface blow build to 1 1/2"
60: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.03	107.96	Initial Hydro-static
1	35.49	106.98	Open To Flow (1)
34	38.40	108.93	Shut-In(1)
60	1160.19	109.77	End Shut-In(1)
61	38.05	109.45	Open To Flow (2)
106	41.79	110.78	Shut-In(2)
166	1191.78	112.08	End Shut-In(2)
167	2100.24	112.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean oil	0.07
31.00	gmco 40%m 55%o 5%g	0.43
	GIP 63'	

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Company, Inc.

22-16s-34w Scott

202 W Main St
Salem IL , 62881

Stoll 1-22

Job Ticket: 57463

DST#: 1

ATTN: Steve Davis

Test Start: 2014.09.15 @ 17:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Clean oil	0.070
31.00	gmco 40%m 55%o 5%g	0.435
	GIP 63'	

Total Length: -999963.00 ft

Total Volume: 0.505 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8373

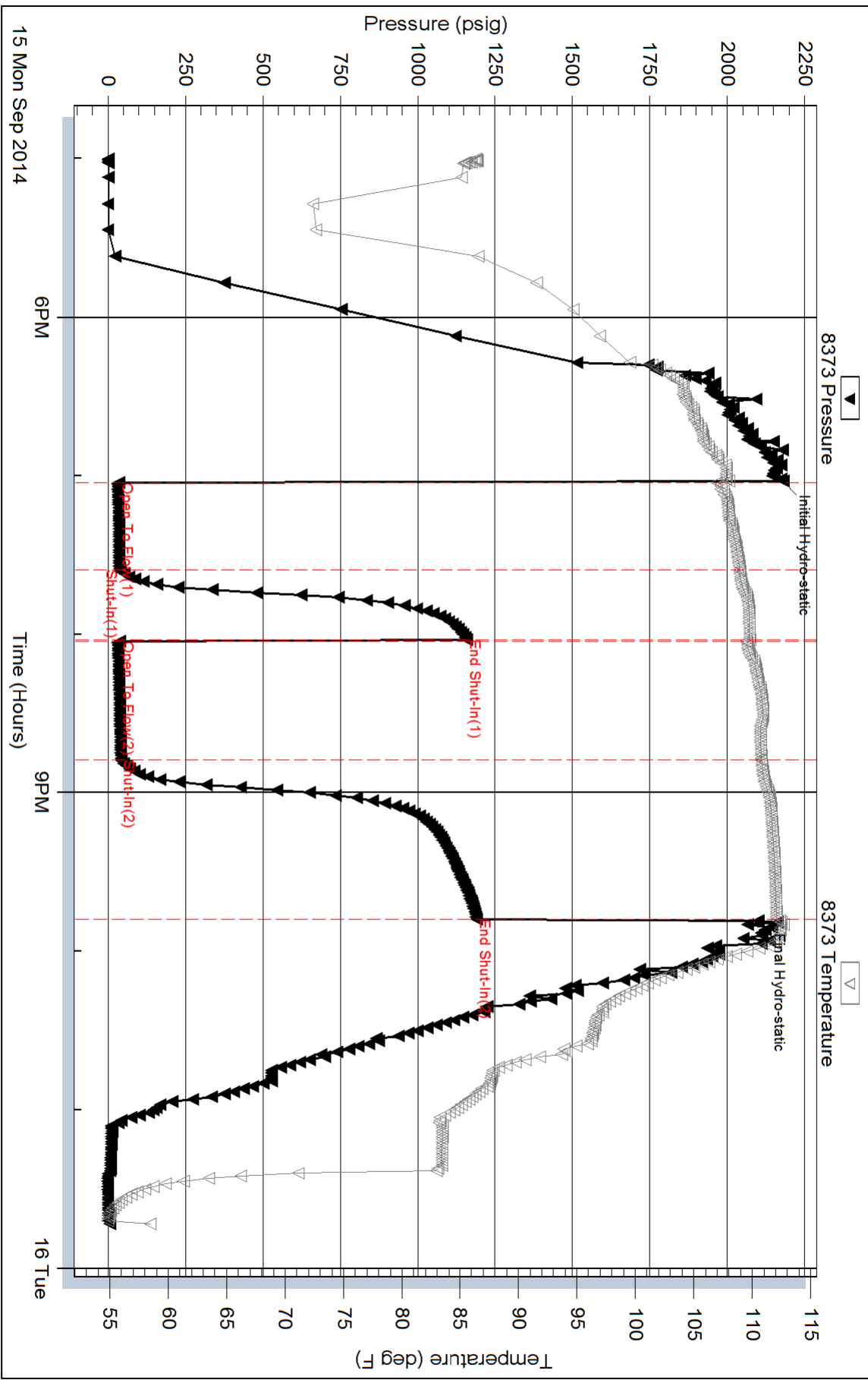
Inside

Shakespeare Oil Company, Inc.

Stoll 1-22

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

22-16s-34w Scott

202 W Main St
Salem IL , 62881

Stoll 1-22

Job Ticket: 57464

DST#: 2

ATTN: Steve Davis

Test Start: 2014.09.16 @ 10:15:00

GENERAL INFORMATION:

Formation: **Marmaton B&C**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 12:16:30

Time Test Ended: 16:02:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 60

Interval: 4484.00 ft (KB) To 4535.00 ft (KB) (TVD)

Reference Elevations: 3140.00 ft (KB)

Total Depth: 4535.00 ft (KB) (TVD)

3128.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

Serial #: 8373

Inside

Press@RunDepth: 26.80 psig @ 4485.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.16

End Date:

2014.09.16

Last Calib.:

2014.09.16

Start Time: 10:15:05

End Time:

16:01:59

Time On Btm:

2014.09.16 @ 12:16:00

Time Off Btm:

2014.09.16 @ 14:17:30

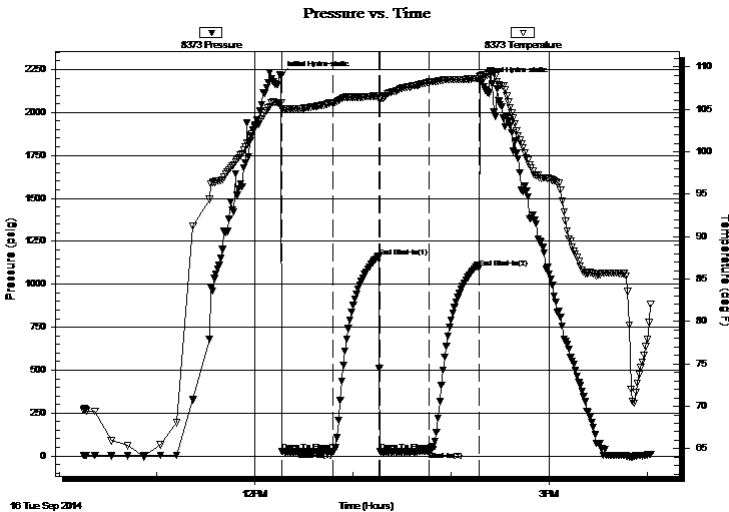
TEST COMMENT: 30: Weak surface blow died in 10 min.

30: No Return

30: No Blow .

60: No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.12	105.83	Initial Hydro-static
1	27.95	105.11	Open To Flow (1)
32	26.94	105.80	Shut-In(1)
60	1161.44	106.60	End Shut-In(1)
61	25.50	106.20	Open To Flow (2)
91	26.80	108.22	Shut-In(2)
121	1094.35	108.63	End Shut-In(2)
122	2180.87	108.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w ith oil spots	0.21

* 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 Company, Inc.

22-16s-34w Scott

202 W Main St
Salem IL , 62881

Stoll 1-22

Job Ticket: 57464

DST#: 2

ATTN: Steve Davis

Test Start: 2014.09.16 @ 10:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 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
15.00	Mud with oil spots	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

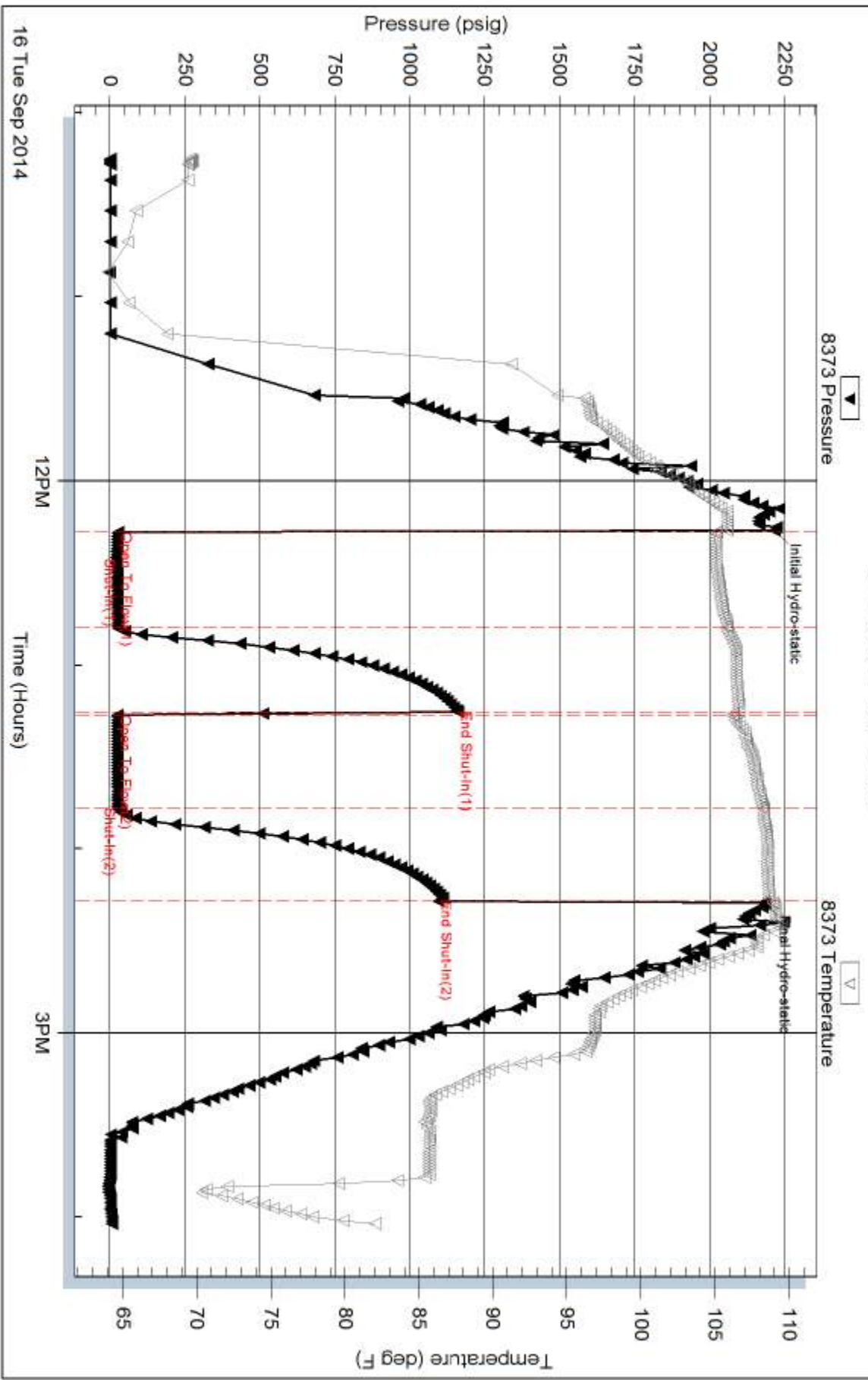
Serial #:

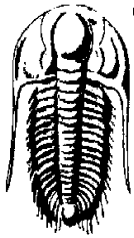
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

22-16s-34w Scott

202 W Main St
Salem IL , 62881

Stoll 1-22

Job Ticket: 57465

DST#: 3

ATTN: Steve Davis

Test Start: 2014.09.17 @ 12:10:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 14:06:30

Time Test Ended: 19:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 60

Interval: 4662.00 ft (KB) To 4720.00 ft (KB) (TVD)

Total Depth: 4720.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 3140.00 ft (KB)

3128.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8373

Press @ Run Depth: 33.53 psig @ ft (KB)

Start Date: 2014.09.17

End Date: 2014.09.17

Start Time: 12:10:05

End Time: 19:39:29

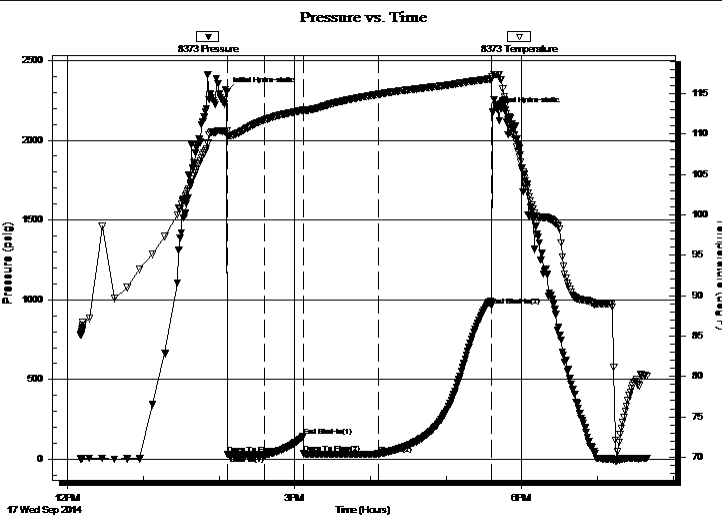
Capacity: 8000.00 psig

Last Calib.: 2014.09.17

Time On Btm: 2014.09.17 @ 14:06:00

Time Off Btm: 2014.09.17 @ 17:36:30

TEST COMMENT: 30: Weak surface blow build to 2".
30: No Return.
60: Weak surface blow build to 2 1/2".
90: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2307.28	110.42	Initial Hydro-static
1	31.88	109.78	Open To Flow (1)
30	27.91	111.75	Shut-In(1)
61	143.55	112.94	End Shut-In(1)
61	35.95	112.89	Open To Flow (2)
121	33.53	114.93	Shut-In(2)
210	963.45	116.81	End Shut-In(2)
211	2180.61	117.09	Final Hydro-static

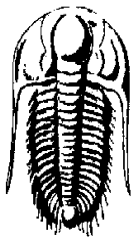
Recovery

Length (ft)	Description	Volume (bbl)
45.00	gocm 1%g 30%o 69% m	0.63

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shakespeare Oil Company, Inc.

22-16s-34w Scott

202 W Main St
Salem IL, 62881

Stoll 1-22

ATTN: Steve Davis

Job Ticket: 57465

DST#: 3

Test Start: 2014.09.17 @ 12:10:00

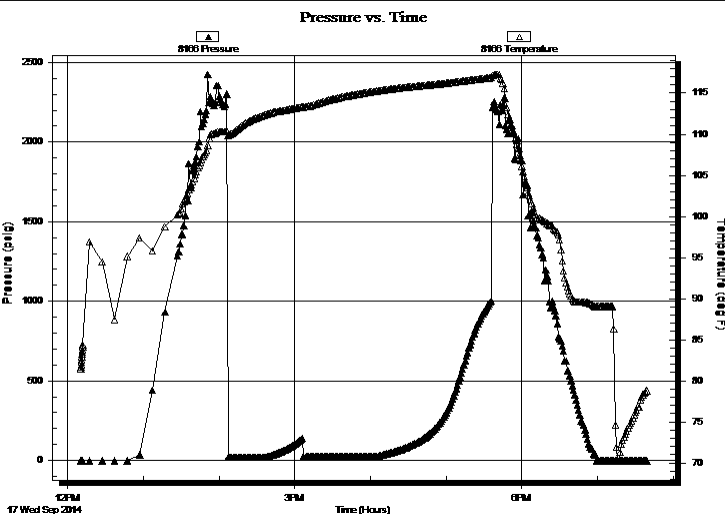
GENERAL INFORMATION:

Formation: Johnson			
Deviated: No Whipstock:	0.00 ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 14:06:30		Tester: Justin Harris	
Time Test Ended: 19:39:30		Unit No: 60	
Interval: 4662.00 ft (KB) To 4720.00 ft (KB) (TVD)		Reference Elevations:	3140.00 ft (KB)
Total Depth: 4720.00 ft (KB) (TVD)			3128.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Poor	KB to GR/CF:	12.00 ft

Serial #: 8166

Press @ Run Depth:	psig @	ft (KB)	Capacity:	8000.00 psig
Start Date:	2014.09.17	End Date:	2014.09.17	Last Calib.: 2014.09.17
Start Time:	12:10:05	End Time:	19:39:29	Time On Btm:
				Time Off Btm:

TEST COMMENT: 30: Weak surface blow build to 2".
30: No Return.
60: Weak surface blow build to 2 1/2".
90: No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	gocm 1%g 30%o 69% m	0.63

* 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 Company, Inc.

22-16s-34w Scott

202 W Main St
Salem IL , 62881

Stoll 1-22

Job Ticket: 57465

DST#: 3

ATTN: Steve Davis

Test Start: 2014.09.17 @ 12:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	gocm 1%g 30%o 69% m	0.631

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

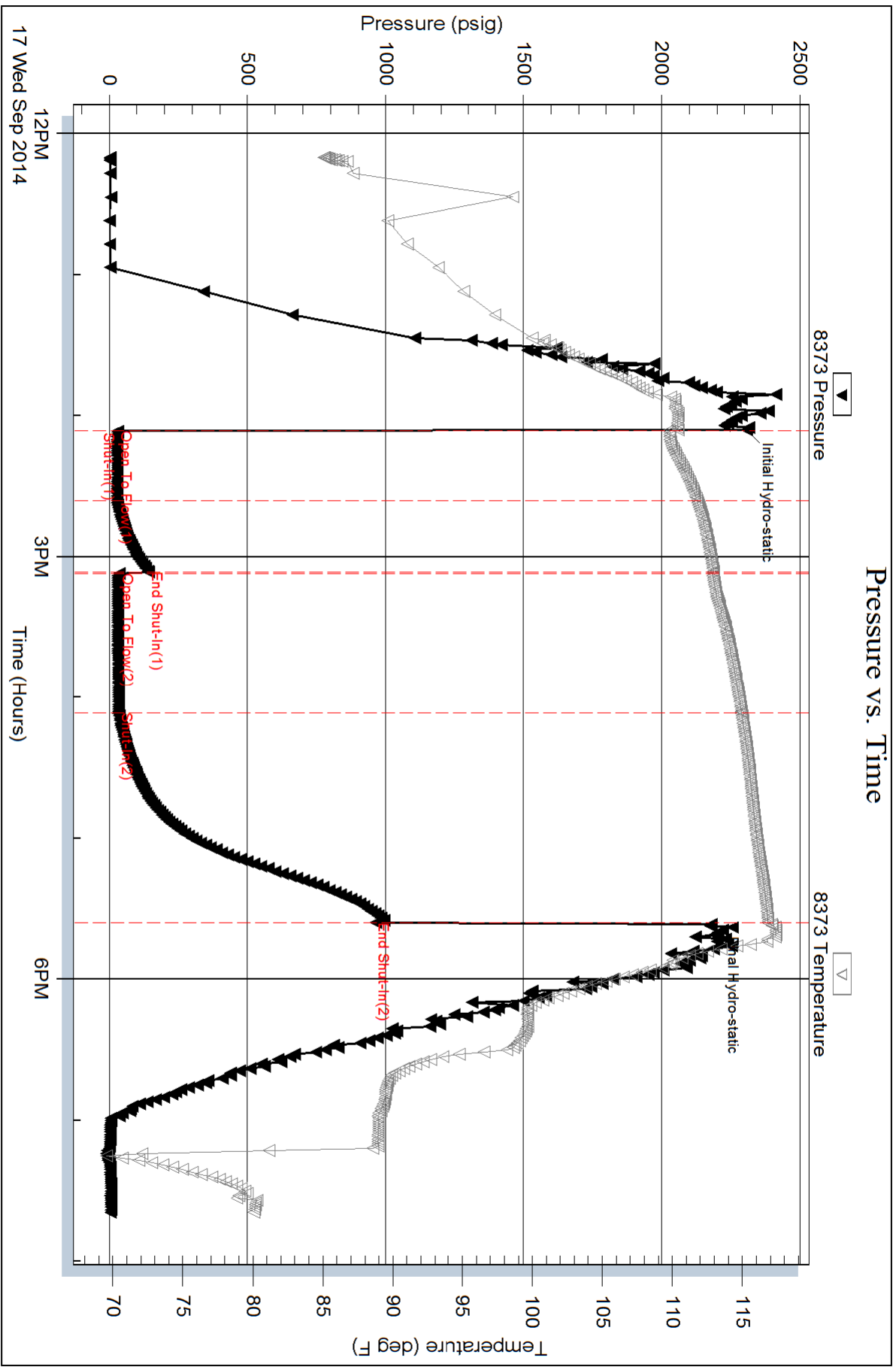
Num Gas Bombs: 0

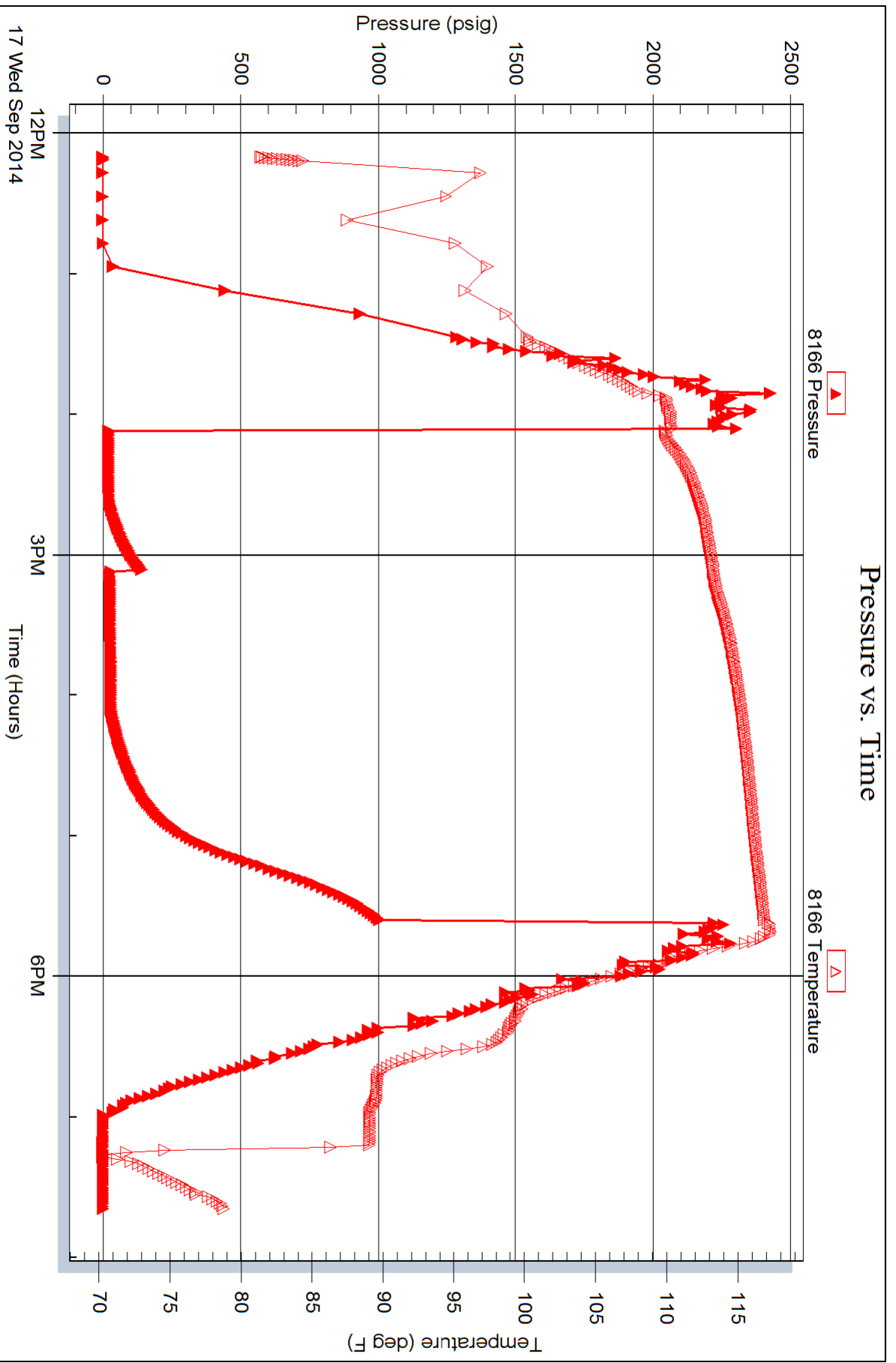
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







SHAKESPEARE OIL COMPANY, INC. STOLL #-22

2440' FSL & 1740' FWL of Section 22-T16S-R34W
SCOTT COUNTY, KANSAS
API#15-171-21087-00-00

Geologist's Report WellSight Systems

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

Well Name: Stoll #1-22
API: 15-171-21087-00-00
Location: 2440' FSL & 1740' FWL of Section 22-T16S-R34W
License Number: KLN #7311
Spud Date: 9/08/2014
Surface Coordinates: 2440' FSL & 1740' FWL of Section 22-T16S-R34W
Region: Scott County, Kansas
Drilling Completed: 9/18/2014

Bottom Hole Vertical Test D&A
Coordinates:
Ground Elevation (ft): 3128 K.B. Elevation (ft): 3140
Logged Interval (ft): RTD To: 3750 Total Depth (ft): RTD 4916 LTD 4914
Formation: Mississippi
Type of Drilling Fluid: Chemical (Displacement complete @ 3507)

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

Operator

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

Geologist

Name: Richard S.(Steve) Davis Jr.
Company: Petroleum Geologist
Address: 212 N. Market, Suite 268
Wichita, Kansas 67202

FORMATION TOPS

Formation	Sample	E-Log	KB	3140	Formation	Sample	E-Log	Datum
			Datum	Formation				
Anhydrite	2450	2448	+692	Hushpuckney	4359	4354	-1214	
B/Anhydrite	2470	2467	+673	Lansing L	4361	4357	-1217	
Topeka	3821	3819	-679	BKC	4415	4411	-1271	
Heebner	3991	3988	-848	Marmaton	4460	4456	-1316	
Toronto	4006	4002	-862	Pawnee	4543	4540	-1400	
Lansing	4032	4030	-890	Fort Scott	4583	4581	-1441	
Lansing D	4146	4149	-1009	Cherokee Sh	4611	4609	-1469	
Muncie Creek	4216	4212	-1072	Johnson	4653	4651	-1511	
Lansing H	4229	4234	-1094	Mississippi	4808	4804	-1664	
Lansing I	4265	4262	-1122	Total Depth	4916	4914	-1774	
Lansing J	4294	4289	-1149					
Stark	4318	4313	-1173					
Lansing K	4328	4323	-1183					

DAILY PENETRATION: 7:00 AM

Date	Depth	Activity
09/08/14	0	MIRU & Spud
09/09	265	WOC
09/10	1500	Drlg
09/11	2080	Drlg
09/12	2913	Drlg
09/13	3507	Drlg
09/14	4024	Drlg
09/15	4449	Drlg
09/16	4525	Drlg
09/17	4682	Drlg
09/18	4834	Drlg
09/20	4916	P&A

CONTRACTOR:

Southwind Drilling, Rig #70

Toolpusher: Sam Staggs

MUD:

Mud Co (displacement complete @ 3507)

Reid Atkins

DRILL STEM TESTING: Trilobite Testing Inc.

Justin Harris

ELECTRIC LOG: Weatherford

Derek Carter

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

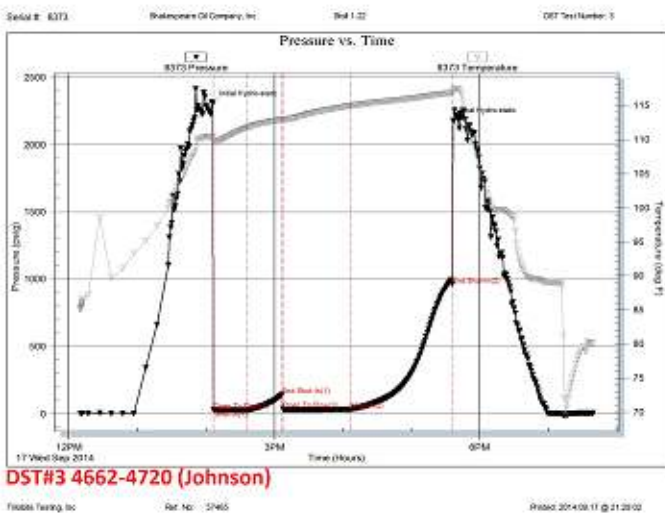
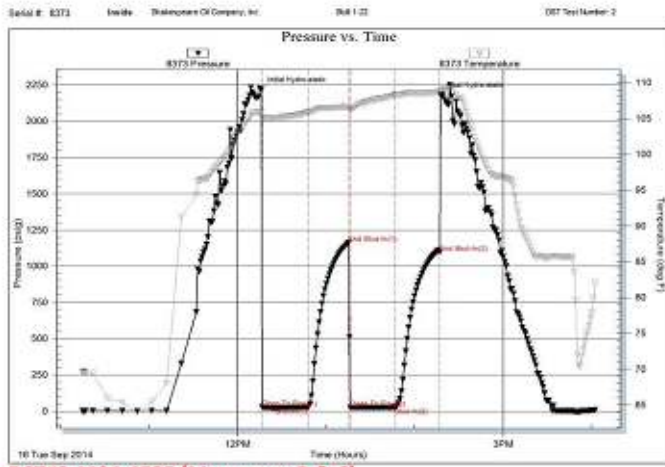
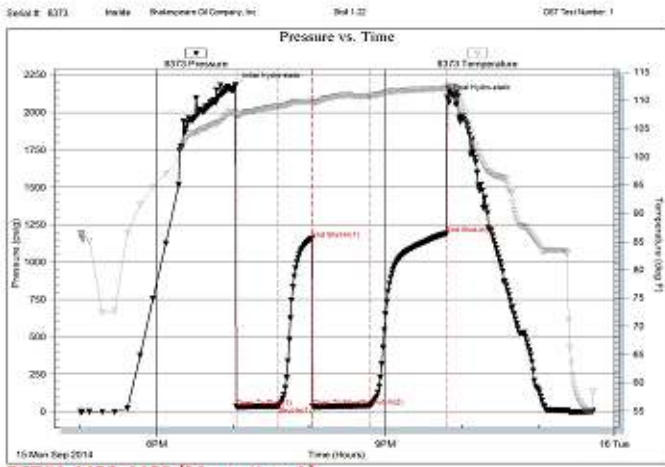
CASING RECORD:

Surface: 8 5/8" @ 265' w/ 225 sx

Production: None

BIT RECORD:

Bit No./Size	Make/Type	Out	Ftg	Hrs
#1/ 12 1/4"	RTC/RT	265	265	2 1/4
#2/ 7 7/8"	RTC/S52P	4916	4651	138



Rock Types

LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst

- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst

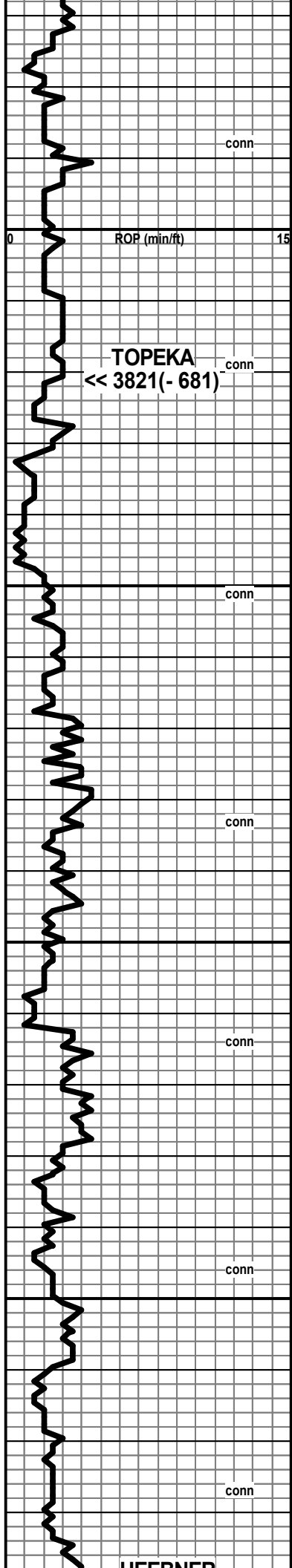
- Meta
- Mrlst
- Salt
- Shale
- Shcol
- Shgy

- Slst
- Ss
- Till

- Spotted
- Ques
- Dead

- OIL SHOW**
- Even

ROP (min/ft)	Depth	Lithology	Geological Descriptions	Remarks
ROP (min/ft) ——— 0 ——— 15 conn	3750			



3800

3850

3900

3950

Start 10' Wet & Dry @ 3800

LS, brn-gray, f-vfxln, chky IP, foss & ool, P ipart por, NS, mhd

LS, tan-gray, f-mxln, arg, sub ool-foss, NV por, mhd-sft

Shale, black, gray & mar, some silty

LS, gray-tan, vf-micxln, chty, sharp, NV por, dense

Shale, black, dk gray

Shale, black, gray, grn & mar, silty + Slst, gray-gn

LS, white-tan, f-vfxln, chky IP, sltly foss, P pp-vgy por, SSFO, spt'd asph stn, dull fluor, N odor + Cht, tan, sltly foss, opq

LS, brn-gray, vf-micxln, sltly foss, NV por, dense

Shale, dk gray & mar

LS, gray-tan, vfxln, sltly foss, NV por, dense

Shale, black carb

LS, crm-off white, f-vfxln, chky, foss, P ixln por, NS, sft

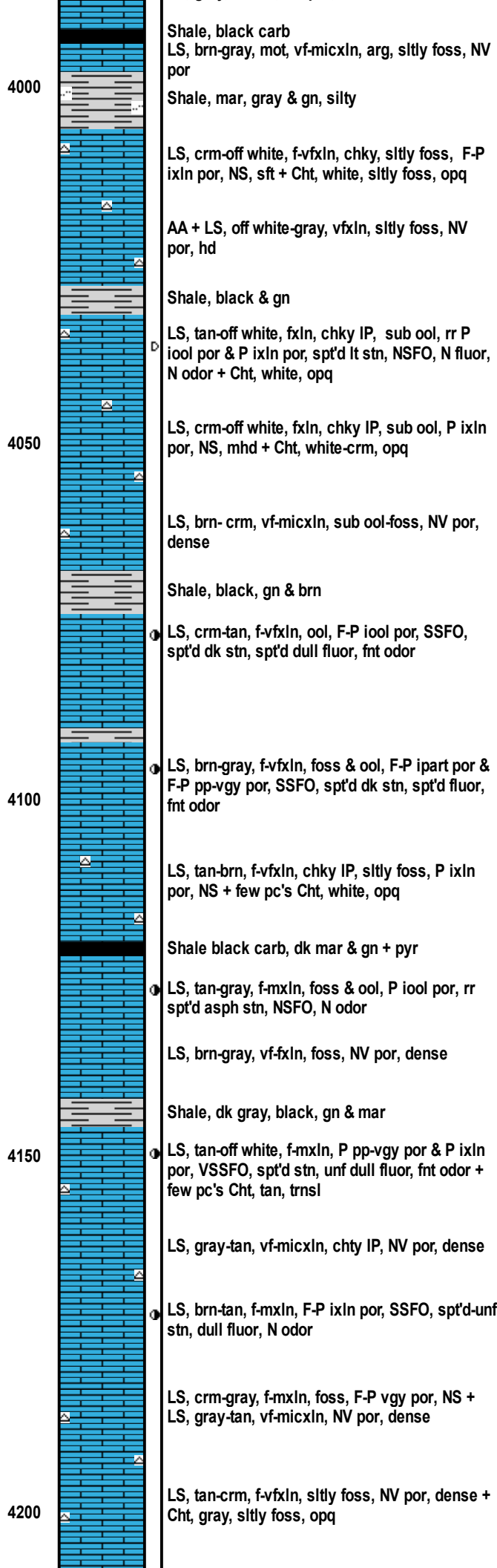
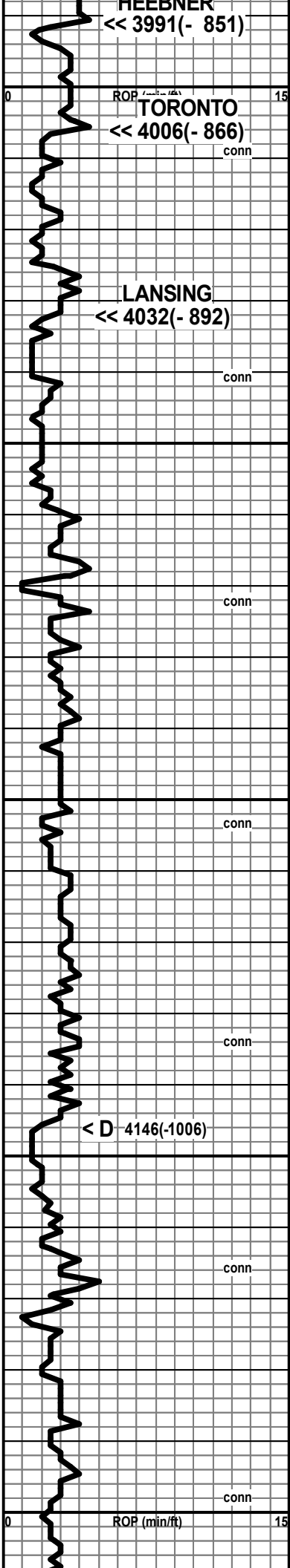
LS, crm-tan, f-vfxln, foss & ool, F ipart por, SSFO(hvy), spt'd asph stn, dull spt'd fluor, N odor

LS, tan-gray, f-vfxln, sltly foss, NV por, hd

LS, dolo, tan-crm, fxln, P ixln por, rr spt'd stn, NSFO, N odor

LS, brn-gray, f-vfxln, chky IP, sltly foss, NV por + Cht, white-tan, opq

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



Shale, black carb
 LS, brn-gray, mot, vf-micxn, arg, sltly foss, NV por

Shale, mar, gray & gn, silty

LS, crm-off white, f-vfxln, chky, sltly foss, F-P ixln por, NS, sft + Cht, white, sltly foss, opq

AA + LS, off white-gray, vfxln, sltly foss, NV por, hd

Shale, black & gn

LS, tan-off white, fxl, chky IP, sub ool, rr P iool por & P ixln por, spt'd lt stn, NSFO, N fluor, N odor + Cht, white, opq

LS, crm-off white, fxl, chky IP, sub ool, P ixln por, NS, mhd + Cht, white-crm, opq

LS, brn- crm, vf-micxn, sub ool-foss, NV por, dense

Shale, black, gn & brn

LS, crm-tan, f-vfxln, ool, F-P iool por, SSFO, spt'd dk stn, spt'd dull fluor, fnt odor

LS, brn-gray, f-vfxln, foss & ool, F-P ipart por & F-P pp-vgy por, SSFO, spt'd dk stn, spt'd fluor, fnt odor

LS, tan-brn, f-vfxln, chky IP, sltly foss, P ixln por, NS + few pc's Cht, white, opq

Shale black carb, dk mar & gn + pyr

LS, tan-gray, f-mxn, foss & ool, P iool por, rr spt'd asph stn, NSFO, N odor

LS, brn-gray, vf-fxl, foss, NV por, dense

Shale, dk gray, black, gn & mar

LS, tan-off white, f-mxn, P pp-vgy por & P ixln por, VSSFO, spt'd stn, unfl dull fluor, fnt odor + few pc's Cht, tan, trnsl

LS, gray-tan, vf-micxn, chty IP, NV por, dense

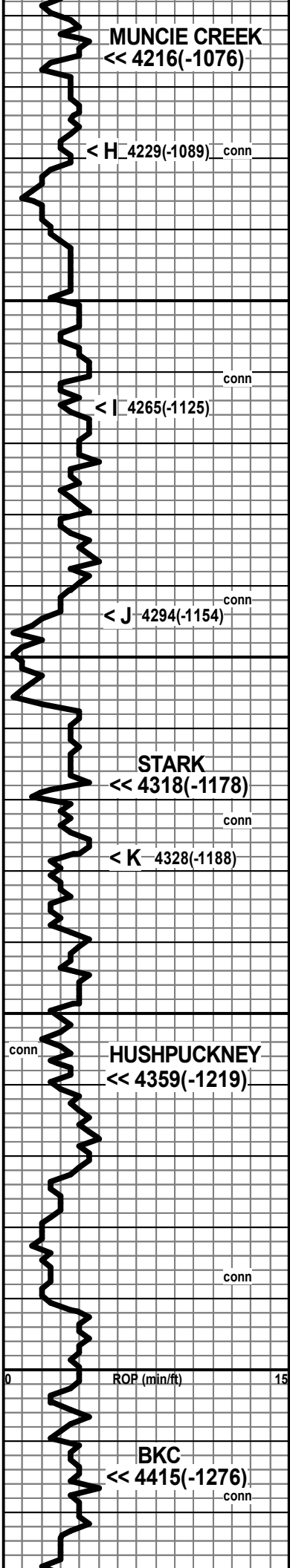
LS, brn-tan, f-mxn, F-P ixln por, SSFO, spt'd-unfl stn, dull fluor, N odor

LS, crm-gray, f-mxn, foss, F-P vgy por, NS + LS, gray-tan, vf-micxn, NV por, dense

LS, tan-crm, f-vfxln, sltly foss, NV por, dense + Cht, gray, sltly foss, opq

Vis 50 Wt 9.1 Fil 9.6 PH 10
 Chl 4,000 LCM 1#
 9/14/14 @ 4042

Vis 46 Wt 9.1



MUNCIE CREEK
 << 4216(-1076)

< H_4229(-1089) conn

< I_4265(-1125) conn

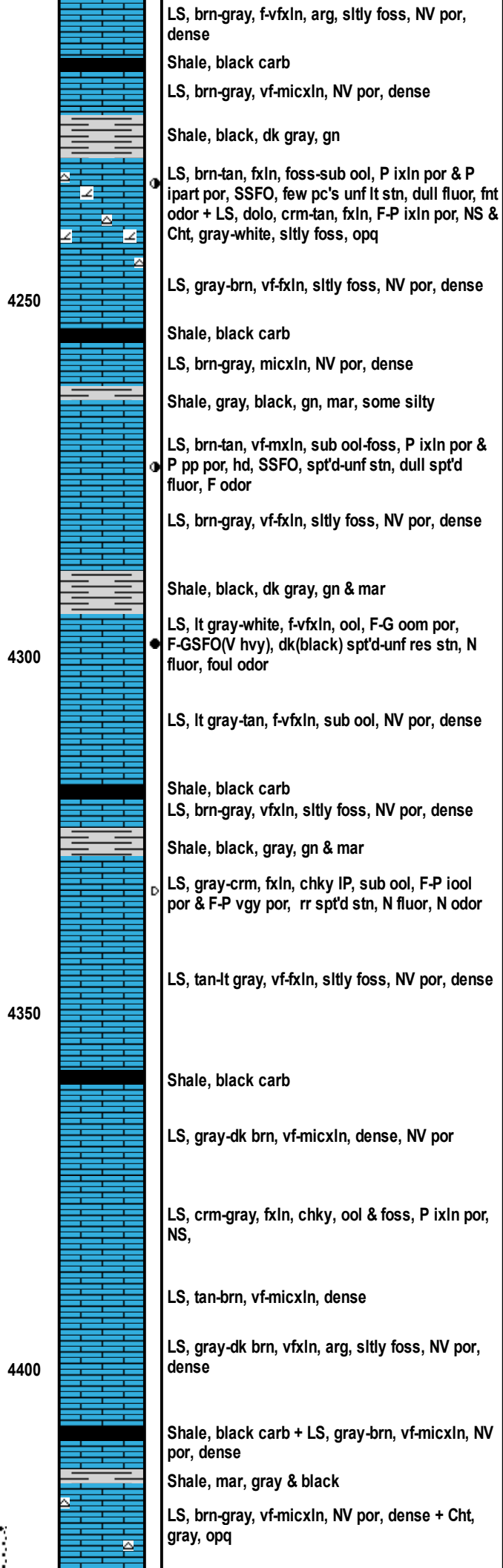
< J_4294(-1154) conn

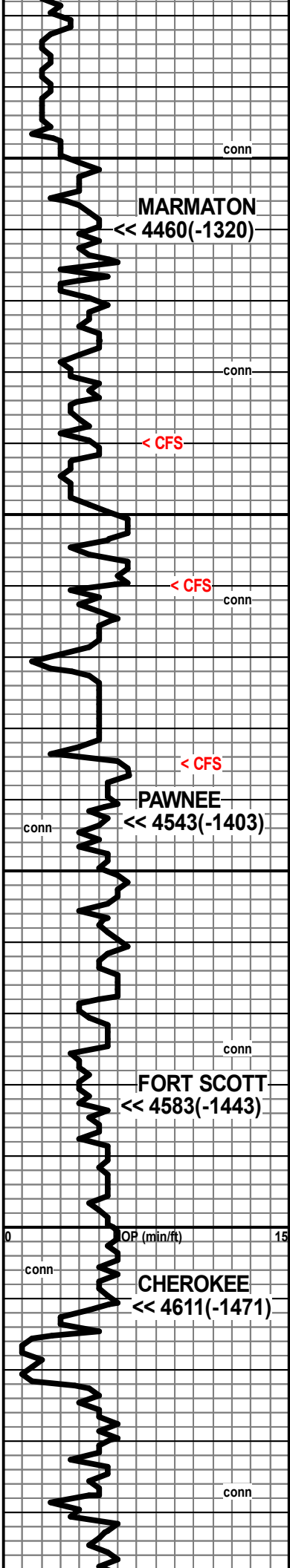
STARK
 << 4318(-1178)

< K_4328(-1188) conn

HUSHPUCKNEY
 << 4359(-1219)

BKC
 << 4415(-1276) conn





D.S.T.#: 1
 4450
 D.S.T.#: 2
 4500
 4550
 4600

Shale, gray, mar, black & gn + Sltst, gray-gn

Sltst, gray-gn + Shale, black, gray, mar & gn

LS, tan-brn, vf-micIn, sltly foss, P vgy por, spt'd stn, NSFO, N odor

Shale, black, gray & mar

LS, gray-brn, f-mxIn, sub ool-foss, F-P ixIn por & F-P vgy-pp por, S-FSFO, unfl stn, dull unfl fluor, fnt odor

LS, tan-gray, f-crs xIn, sub ool, F ixIn por & F-P vgy por, FSFO, unfl stn, dull unfl fluor, fnt odor + Cht, tan-gray, sltly foss, trnsI

LS, crm-off white, vf-micIn, ool & foss, NV por, hd + Shale, black, gray & gn

LS, lt gray-tan, f-vfxIn, sub ool-foss, P ixIn por & P vgy por, SSFO, spt'd-unfl stn, spt'd fluor, fnt odor + LS, crm-off white, f-vfxIn, sltly foss, NV por, chky-dense & Inc Shale, black, gray-gn & mar

LS, gray-tan, vfxIn, sub ool-foss, NV por, dense

LS, crm-tan, f-vfxIn, chky IP, ool, P iool por, rr spt'd stn, NSFO, N odor

LS, brn-gray, vf-micIn, NV por, dense

Shale, black carb

Shale, black, gray, gn & mar(silty)

LS, tan-lt gray, vfxIn, chky IP, sltly foss, NV por, hd + Cht, tan-gray, sltly foss, trnsI-opq

LS, gray-crm, vf-fxIn, sub ool-foss, NV por dense + Cht, dk brn-gray, trnsI-opq

Shale, black carb

LS, brn-gray, f-vfxIn, foss & ool, chky IP, NV por, hd + Shale, black carb, gn, gray & mar

Shale, black carb

LS, crm-gray, f-vfxIn, ool & foss, rr P pp por, spt'd stn, N fluor, NSFO, N odor, hd + Cht, dk gray-brn, opq

LS, brn-gray, micIn, sltly foss, NV por, dense

Shale, black carb

LS, white-lt gray, f-vfxIn, chky, sub ool-foss, NV por, sft

LS, gray-brn, vf-fxIn, sltly foss, NV por, dense + Cht, gray, sltly foss, opq + Shale, black carb

LS, gray-tan, f-vfxIn, sltly foss, NV por, chky-dense

Shale, black carb

PIPE STRAP & SURVEY @ 4490
 Strap 3.48' short to board
 Survey 2 1/2 deg

DST #1 4422 - 4490
 (Marmaton A)
 30 30 45 60
 BLOW:
 IF Surface built to 1"
 FF Surface built to 1 1/2"
 RECOVERY: 31' GIP
 5' SGCO (1%g 99%o)
 31' G&MCO (5%g 55%o 40%o)
 36' TOTAL FLUID (Gr 27 deg)
 IHP 2180
 IFP 35 - 38
 ISIP 1160
 FFP 38 - 42
 FSIP 1192
 FHP 2100 BHT 112 deg F

Vis 57 Wt 9.2 Fil 8.0 PH 10.5
 Chl 5,000 LCM 2#
 9/15/14 @ 4490

DST #2 4484 - 4535
 (Marmaton B & C)
 30 30 30 30
 BLOW:
 IF Surface blow died 10 min
 FF No blow
 RECOVERY:
 15' M w/ oil spots
 IHP 2216
 IFP 28 - 27
 ISIP 1161
 FFP 25 - 27
 FSIP 1094
 IHP 2181 BHT 109 deg F

Vis 55 Wt 9.3 Fil 9.6 PH 11.5
 Chl 6,000 LCM 2#
 9/16/14 @ 4535

MARMATON
 << 4460(-1320)

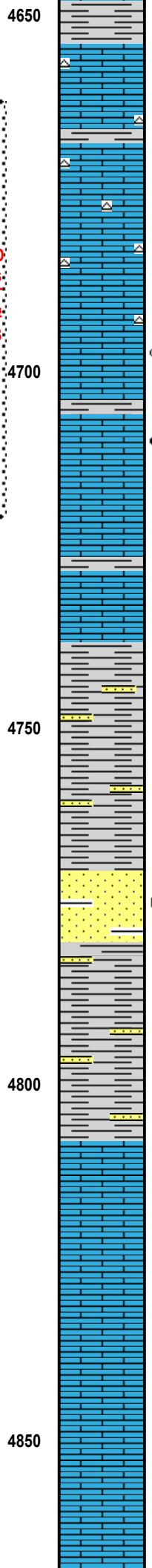
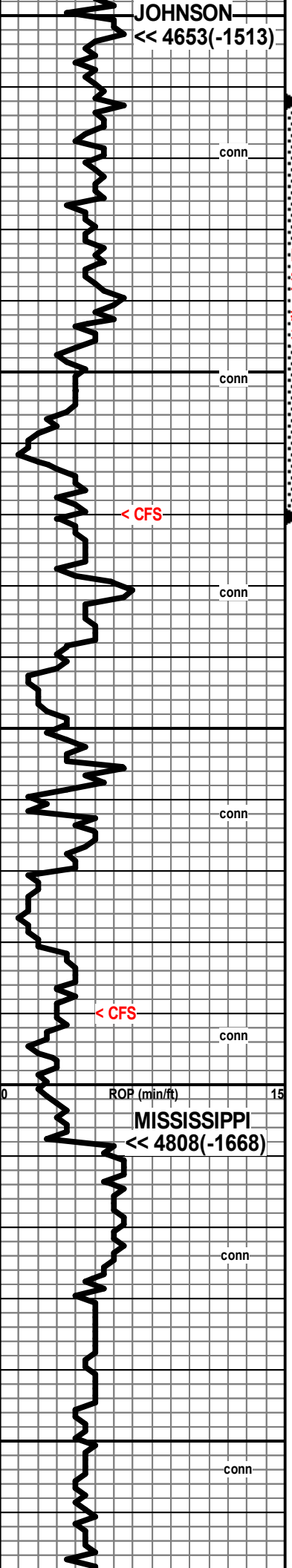
PAWNEE
 << 4543(-1403)

FORT SCOTT
 << 4583(-1443)

CHEROKEE
 << 4611(-1471)

OP (min/ft)

JOHNSON
 << 4653(-1513)



Shale, black, gray, gn & mar

LS, tan-gray, vf-micxln, sub ool-foss, rr P pp por, spt'd stn, NSFO, N fluor, N odor + Cht, brn, trnsl-opq

LS, tan-lt gray, vf-micxln, sub ool, NV por, dense + Cht, tan-gray, trnsl

LS, tan-lt gray-crm, v-micxln, sub ool-foss, chky-dense, NV por + Cht, gray-tan, sltly foss, trnsl

LS, brn-gray, vf-micxln, NV por, dense + Cht, dk brn-gray, trnsl

LS, tan-gray, vf-mxln, sltly foss, P ixln por & P vgy-pp por, SSFO, spt'd-unf lt stn, dull fluor, fnt odor

LS, brn-gray, vf-fxln, foss(bry), F vgy por & F ixln por, GSFO w/gas bubb (bleeding), unf-spt'd dark stn, dull fluor, G odor

LS, tan-lt gray, fxln, chky IP, sltly foss, NV por, hd

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

Most Shale, black, gray, gn, mar, red, yel + pyr w/ few clus SS, white, vfgrn, rd, well sort, comp, P ig por, NS

Shale vcol + few clus SS, white-gray, sltly glauc, vfgrn, rd, well sort, comp-fri, F-P ig por, NS

SS, white-clr qtz, sltly glauc, f-vfgrn, rd, mod sort, comp-fri, F-P ig por, rr spt'd gils stn, NSFO, N fluor, N odor + Shale, vcol

Shale, gn, gray(sdy), black, mar & yel + pyr

Shale, mar, gray, black, gn + pyr & SS, white-gray, sltly glauc, some w/ black shale incl, rd, mod sort, comp-fri, F-P ig por, NS

LS, tan-lt gray, vfxln, sdy, vfgrn, NV por, hd

LS, white-gray, fxln, vfgrn, chky IP, NV por, hd

LS, gray-white, fxln, chky IP, sdy & ool, vf-fgrn, NV por, hd

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

LS AA + LS, white-tan, vf-micxln, sub ool, NV por, dense

LS, crm-gray, fxln, chky IP, sub ool, NV por, dense

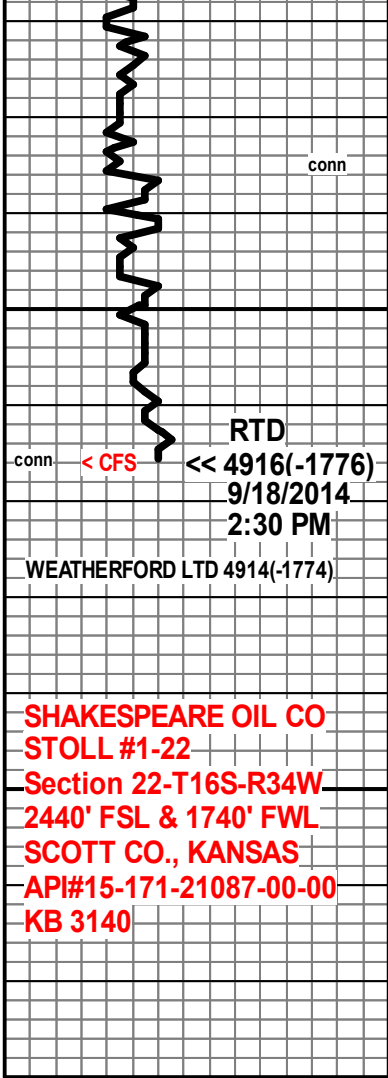
LS AA + LS, tan-gray, micxln, chky IP, NV por

DST#3 4662 - 4720
 (Johnson Zone)
 30 30 60 90
BLOW:
 IF Surface blow built to 2"
 FF Surface blow built to 2 1/2"
RECOVERY:
 45' G&OCM (1%g 30%o 69%m)
 IHP 2307
 IFP 32 - 28
 ISIP 144
 FFP 36 - 33
 FSIP 963
 FHP 2181 BHT 118 deg F

Vis 67 Wt 9.3 Fil 10.4 PH 10
 Chl 7,700 LCM 2#
 9/17/14 @ 4718

Vis 49 Wt 9.2 Fil 7.4 PH 11
 Chl 4,500 LCM 2#
 9/18/14 @ 4850

ROP (min/ft) 0 15
MISSISSIPPI
 << 4808(-1668)



4900

4950

LS AA + LS, tan-gray, micxln, chky IP, NV por, dense
LS AA + LS, crm-gray, vf-fxln, sub ool-foss, NV por, dense
LS, crm-gray, vf-fxln, chky IP, sub ool-foss, NV por, dense
LS, brn-gray, micxln, NV por, mhd

Survey @ 4916, 2 1/2 deg

SHAKESPEARE OIL CO
STOLL #1-22
Section 22-T16S-R34W
2440' FSL & 1740' FWL
SCOTT CO., KANSAS
API#15-171-21087-00-00
KB 3140