



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1094824
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: _____



1094824

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Ottley 1-8
Doc ID	1094824

All Electric Logs Run

Array Induction
Photo Density
Comp Neutron
Microlog
Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Ottley 1-8
Doc ID	1094824

Tops

Name	Top	Datum
Base Anhydrite	2330	+522
Heebner	3812	-960
Lansing	3852	-1000
Muncie Creek	4013	-1161
Stark Shale	4096	-1244
Hushpuckney	4134	-1282
BKC	4188	-1336
Pawnee	4309	-1457
Cherokee Shale	4390	-1538
Johnson	4432	-1580
Mississippian	4508	-1656



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50068

DST#: 1

ATTN: Tim Priest

Test Start: 2012.09.09 @ 06:00:00

GENERAL INFORMATION:

Formation: **LKC 'B'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:13:00

Time Test Ended: 12:25:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Interval: 3880.00 ft (KB) To 3904.00 ft (KB) (TVD)

Reference Elevations: 2842.00 ft (KB)

Total Depth: 3904.00 ft (KB) (TVD)

2832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ RunDepth: 57.90 psig @ 3882.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.09

End Date:

2012.09.09

Last Calib.:

2012.09.09

Start Time: 06:00:01

End Time:

12:25:50

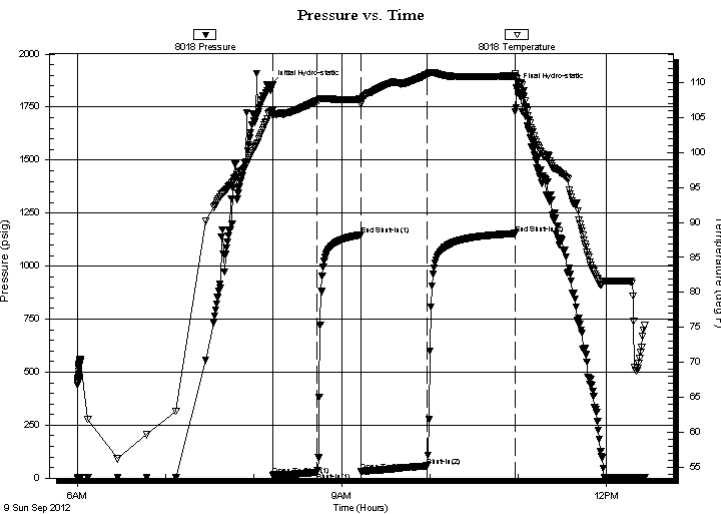
Time On Btm:

2012.09.09 @ 08:11:40

Time Off Btm:

2012.09.09 @ 10:58:39

TEST COMMENT: 1/2" Blow .
No return.
1 1/2" Blow .
No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.34	105.76	Initial Hydro-static
2	14.64	105.29	Open To Flow (1)
32	27.69	107.33	Shut-In(1)
61	1147.97	107.60	End Shut-In(1)
62	29.96	106.85	Open To Flow (2)
107	57.90	111.16	Shut-In(2)
166	1153.69	110.91	End Shut-In(2)
167	1839.77	110.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: .252 @ 80 Degrees F = 24000 PPM	0.00
75.00	OSMW 35m 65w	0.37

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50068

DST#: 1

ATTN: Tim Priest

Test Start: 2012.09.09 @ 06:00:00

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:

24000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW:.252 @ 80 Degrees F = 24000 PPM	0.000
75.00	OSMW 35m 65w	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0

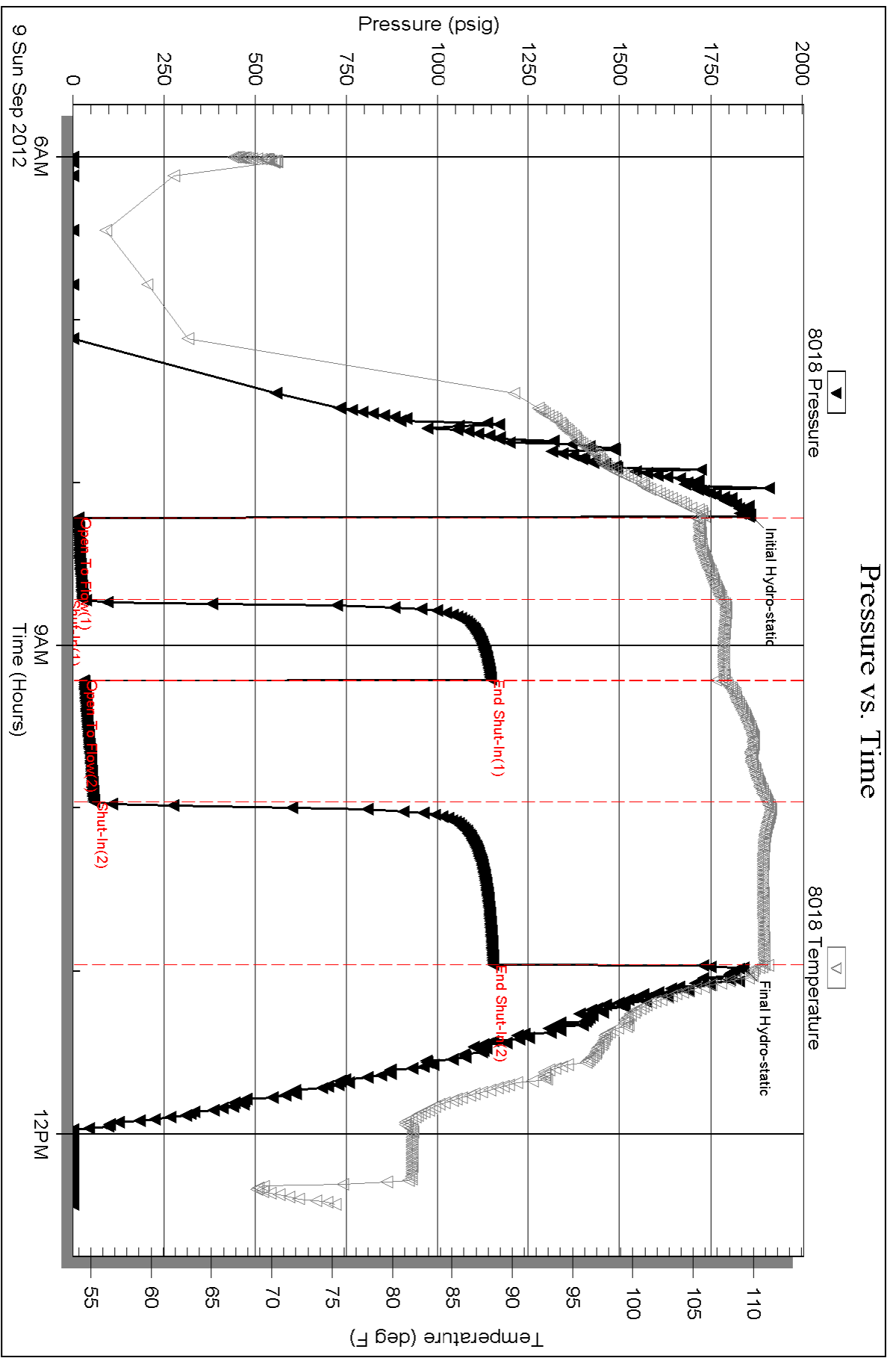
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50069

DST#: 2

ATTN: Tim Priest

Test Start: 2012.09.09 @ 20:45:00

GENERAL INFORMATION:

Formation: **LKC 'C-D'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:17:06
 Time Test Ended: 03:49:00
 Interval: **3899.00 ft (KB) To 3940.00 ft (KB) (TVD)**
 Total Depth: 3940.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Chuck Smith
 Unit No: 62
 Reference Elevations: 2842.00 ft (KB)
 2832.00 ft (CF)
 KB to GR/CF: 10.00 ft

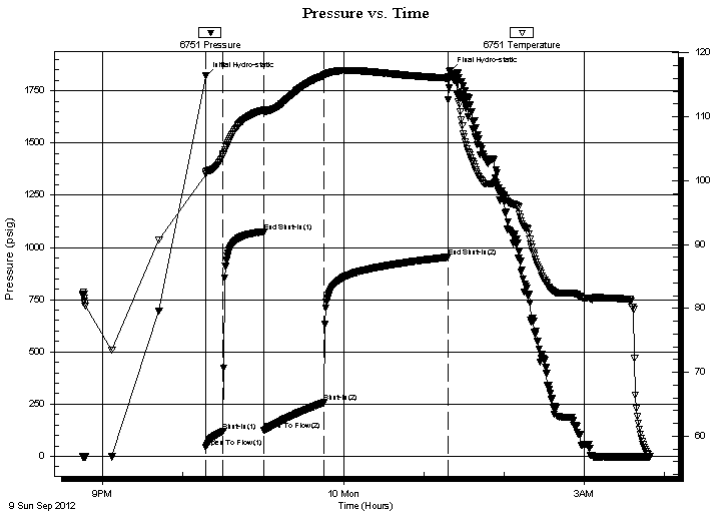
Serial #: 6751

Outside

Press @ Run Depth: 257.25 psig @ 3901.00 ft (KB)
 Start Date: 2012.09.09 End Date: 2012.09.10
 Start Time: 20:45:02 End Time: 03:49:00
 Capacity: 8000.00 psig
 Last Calib.: 2012.09.10
 Time On Btm: 2012.09.09 @ 22:17:00
 Time Off Btm: 2012.09.10 @ 01:19:24

TEST COMMENT: B.O.B. @ 11 min.
 No return.
 B.O.B. @ 15 min.
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.58	101.01	Initial Hydro-static
1	44.44	101.38	Open To Flow (1)
14	121.10	103.99	Shut-In(1)
44	1075.73	111.03	End Shut-In(1)
44	124.00	110.72	Open To Flow (2)
89	257.25	116.48	Shut-In(2)
182	953.85	116.05	End Shut-In(2)
183	1842.91	116.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: 240 @ 54 Degrees F = 50000 PPM	0.00
360.00	MW 5m 95w	3.67
120.00	OSMW 25m 75w	1.68
55.00	OSWM 40w 60m	0.77
5.00	GO 3g 97o	0.07

* 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.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50069

DST#: 2

ATTN: Tim Priest

Test Start: 2012.09.09 @ 20:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	RW:.240 @ 54 Degrees F = 50000 PPM	0.000
360.00	MW 5m 95w	3.665
120.00	OSMW 25m 75w	1.683
55.00	OSWM 40w 60m	0.772
5.00	GO 3g 97o	0.070

Total Length: 540.00 ft Total Volume: 6.190 bbl

Num Fluid Samples: 0

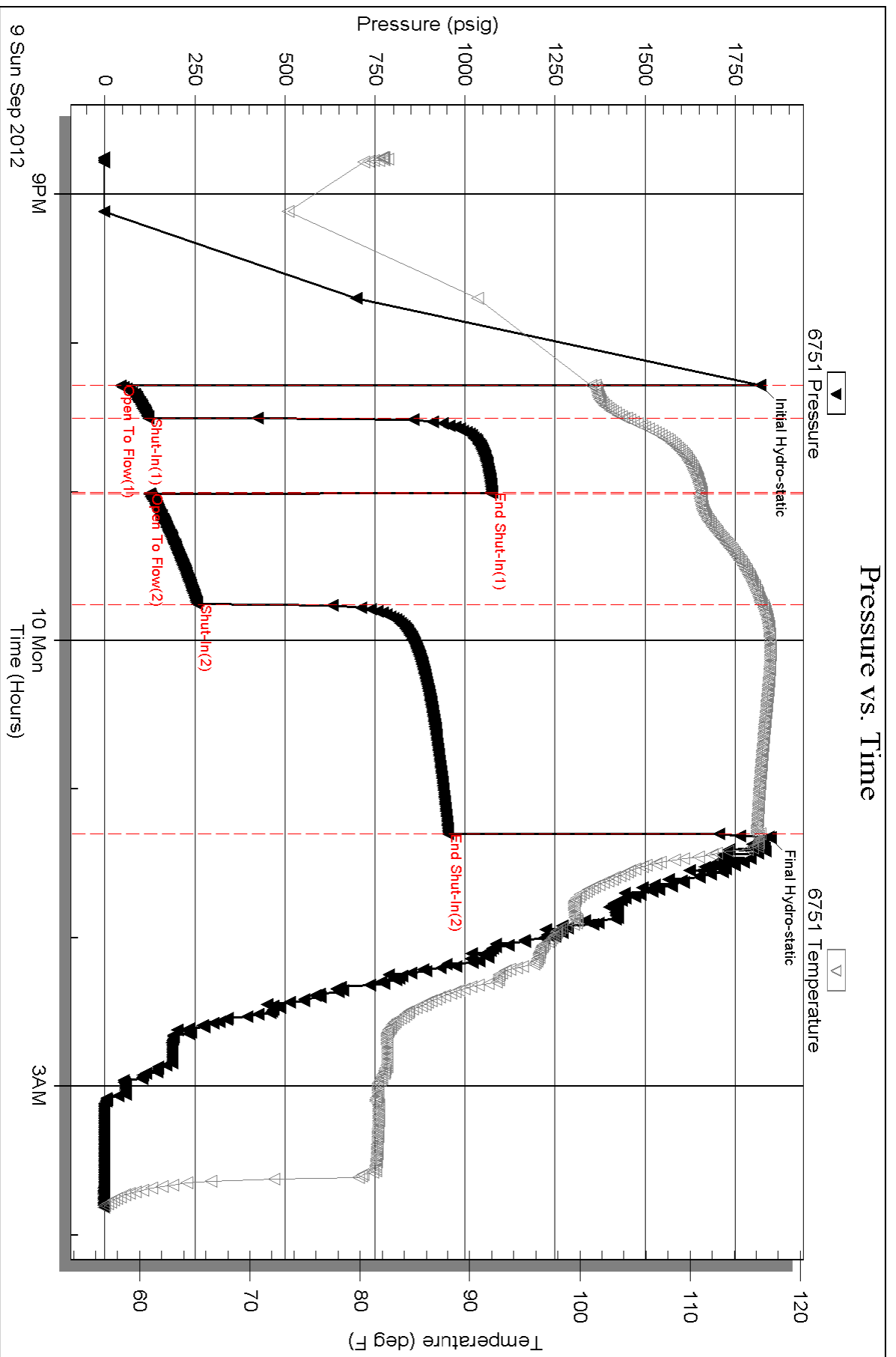
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 26 @ 70 Degrees F = 25.





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50070

DST#: 3

ATTN: Tim Priest

Test Start: 2012.09.10 @ 12:50:00

GENERAL INFORMATION:

Formation: **LKC 'E-F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:12:00

Time Test Ended: 18:21:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 3937.00 ft (KB) To 3963.00 ft (KB) (TVD)

Reference Elevations: 2842.00 ft (KB)

Total Depth: 3963.00 ft (KB) (TVD)

2832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 216.30 psig @ 3939.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.10

End Date: 2012.09.10

Last Calib.: 2012.09.10

Start Time: 12:50:01

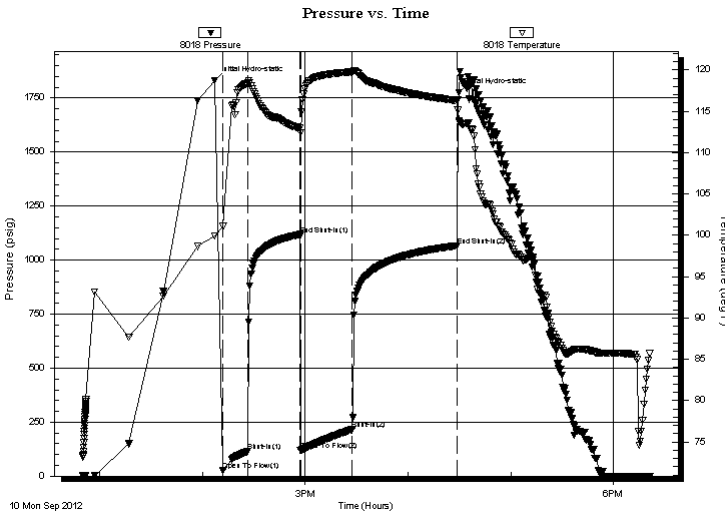
End Time: 18:21:30

Time On Btm: 2012.09.10 @ 14:07:00

Time Off Btm: 2012.09.10 @ 16:29:50

TEST COMMENT: B.O.B. @ 13 min.
No return.
B.O.B. @ 17 min.
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.61	99.90	Initial Hydro-static
5	25.61	101.06	Open To Flow (1)
20	116.22	118.43	Shut-In(1)
50	1118.91	112.96	End Shut-In(1)
51	119.46	112.44	Open To Flow (2)
81	216.30	119.76	Shut-In(2)
142	1066.79	116.30	End Shut-In(2)
143	1774.46	113.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW:.078 @ 85 Degrees F = 80000 PPM	0.00
360.00	MW 3m 97w	3.67
90.00	OSMW 45m 65w	1.26

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50070

DST#: 3

ATTN: Tim Priest

Test Start: 2012.09.10 @ 12:50:00

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:

80000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW:.078 @ 85 Degrees F = 80000 PPM	0.000
360.00	MW 3m 97w	3.665
90.00	OSMW 45m 65w	1.262

Total Length: 450.00 ft Total Volume: 4.927 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8018

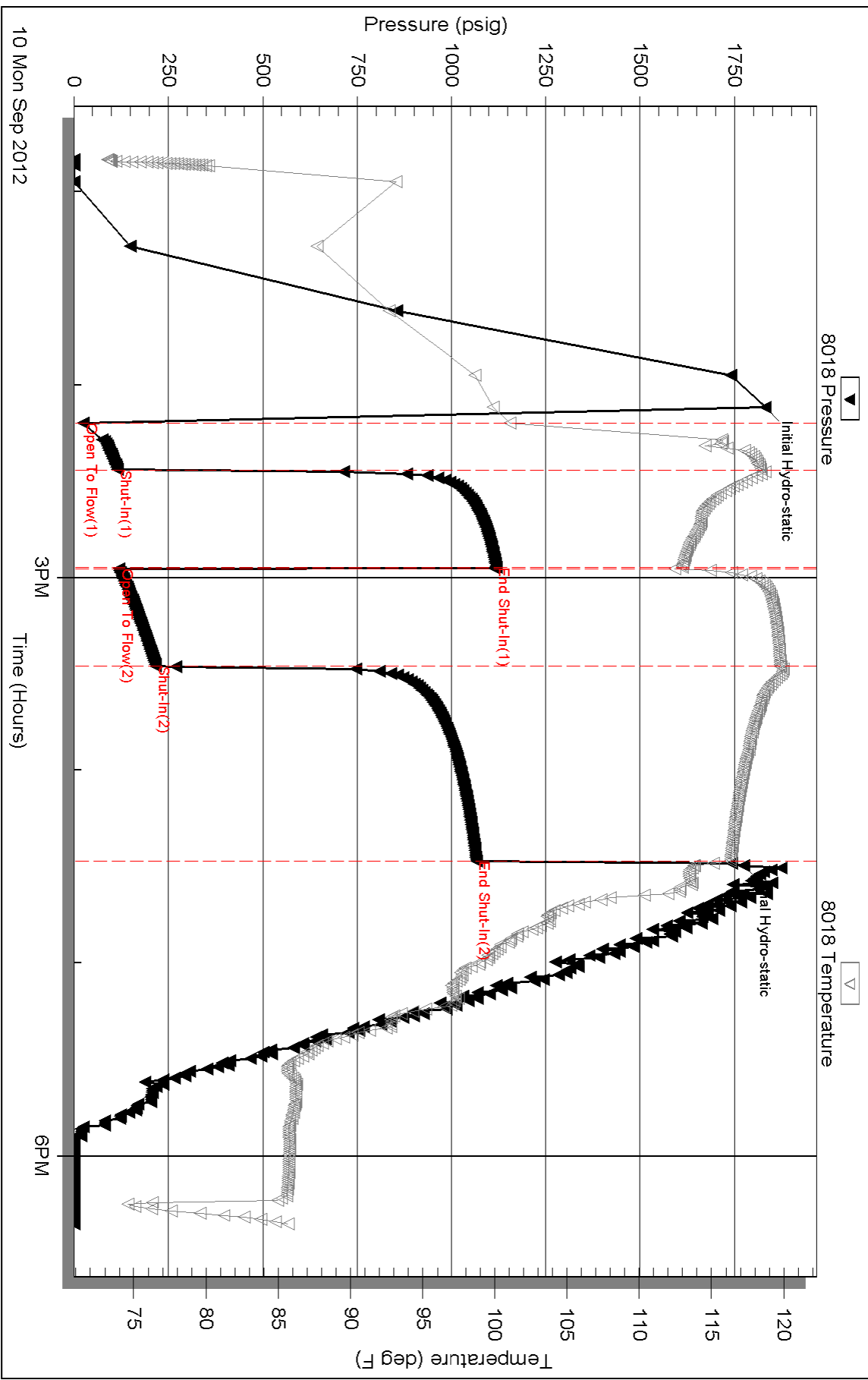
Inside

Shakespeare Oil Co., Inc.

Oilley #1-8

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50070

Printed: 2012.09.11 @ 00:23:01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S8-14s-32wLogan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50071

DST#: 4

ATTN: Tim Priest

Test Start: 2012.09.11 @ 07:22:00

GENERAL INFORMATION:

Formation: **LKC 'H-I'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:56:00

Time Test Ended: 13:21:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4012.00 ft (KB) To 4072.00 ft (KB) (TVD)

Reference Elevations: 2842.00 ft (KB)

Total Depth: 4072.00 ft (KB) (TVD)

2832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 49.24 psig @ 4015.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.11

End Date: 2012.09.11

Last Calib.: 2012.09.11

Start Time: 07:22:01

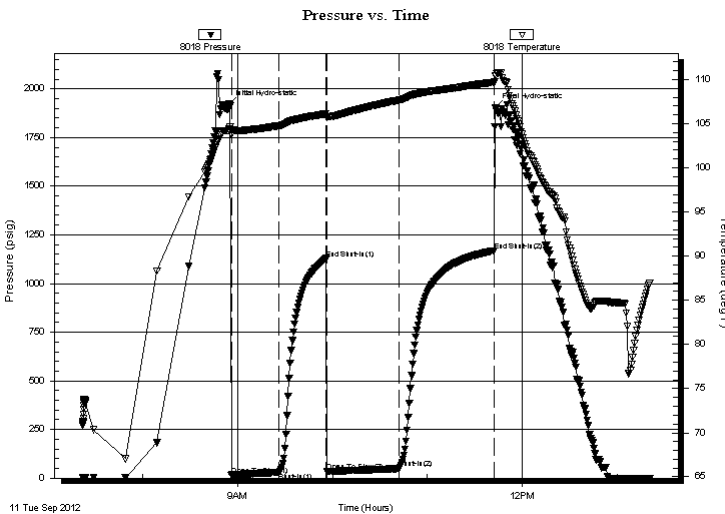
End Time: 13:21:10

Time On Btm: 2012.09.11 @ 08:54:30

Time Off Btm: 2012.09.11 @ 11:43:09

TEST COMMENT: 1" Blow .
No return.
1" Blow .
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1920.88	104.35	Initial Hydro-static
2	15.89	103.73	Open To Flow (1)
32	29.22	104.77	Shut-In(1)
62	1128.48	106.14	End Shut-In(1)
62	33.07	105.66	Open To Flow (2)
108	49.24	107.66	Shut-In(2)
168	1168.22	109.70	End Shut-In(2)
169	1902.77	110.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	SOCM 1 to 99m	0.37
1.00	O 100o	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.

S8-14s-32wLogan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50071

DST#: 4

ATTN: Tim Priest

Test Start: 2012.09.11 @ 07:22:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 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 bbbl
75.00	SOCM 1o 99m	0.369
1.00	O 100o	0.005

Total Length: 76.00 ft Total Volume: 0.374 bbl

Num Fluid Samples: 0

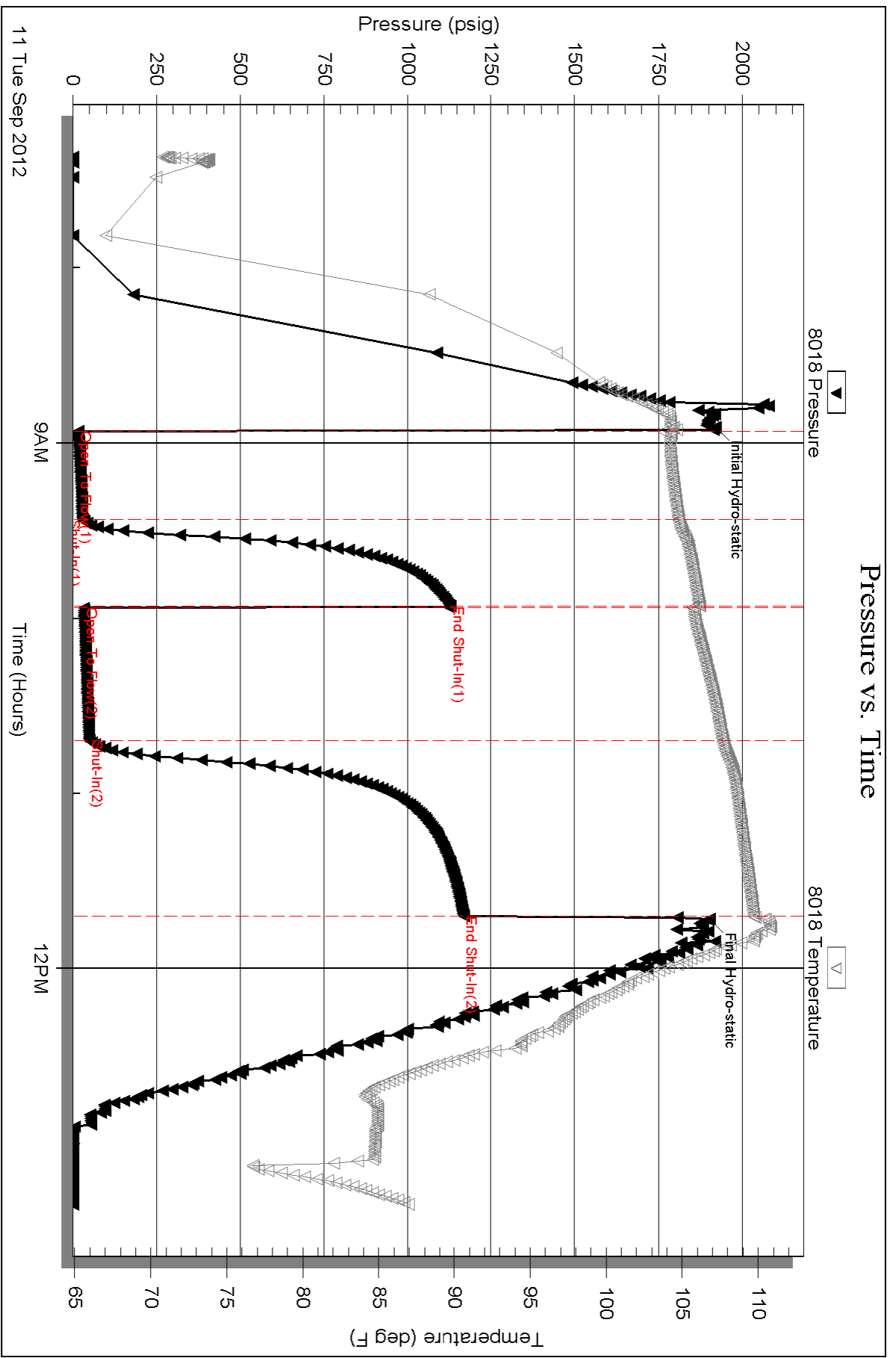
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50072

DST#: 5

ATTN: Tim Priest

Test Start: 2012.09.11 @ 23:43:00

GENERAL INFORMATION:

Formation: **LKC 'K'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 01:31:30
 Tester: Chuck Smith
 Time Test Ended: 06:35:20
 Unit No: 62
 Interval: **4096.00 ft (KB) To 4135.00 ft (KB) (TVD)**
 Reference Elevations: 2842.00 ft (KB)
 Total Depth: 4135.00 ft (KB) (TVD)
 2832.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 10.00 ft

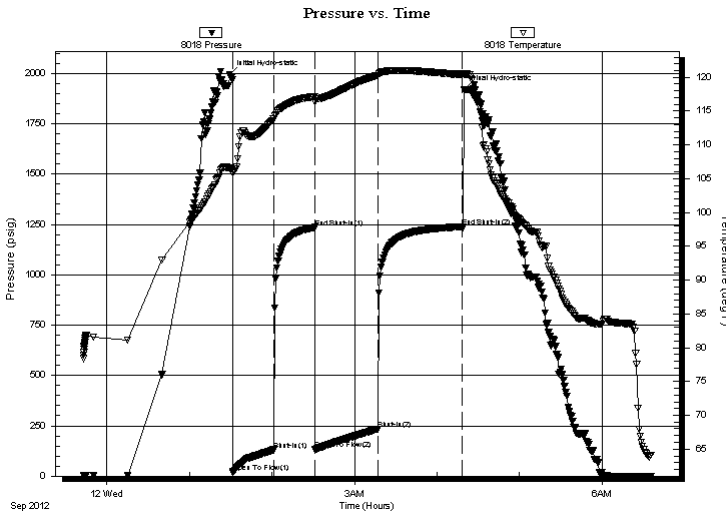
Serial #: 8018

Inside

Press @ Run Depth: 234.16 psig @ 4098.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.11 End Date: 2012.09.12 Last Calib.: 2012.09.12
 Start Time: 23:43:01 End Time: 06:35:20 Time On Btm: 2012.09.12 @ 01:29:20
 Time Off Btm: 2012.09.12 @ 04:19:30

TEST COMMENT: B.O.B. @ 22 min.
 No return.
 B.O.B. @ 25 min.
 No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1992.87	106.53	Initial Hydro-static
3	19.94	105.84	Open To Flow (1)
32	130.54	113.84	Shut-In(1)
62	1235.34	117.14	End Shut-In(1)
62	132.13	116.43	Open To Flow (2)
108	234.16	120.26	Shut-In(2)
169	1239.17	120.38	End Shut-In(2)
171	1919.39	120.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
365.00	MW 5m 95w	3.74
60.00	MW 20m 80w	0.84
55.00	MW 50m 50w	0.77

* 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.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50072

DST#: 5

ATTN: Tim Priest

Test Start: 2012.09.11 @ 23:43:00

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:

78000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
365.00	MW 5m 95w	3.735
60.00	MW 20m 80w	0.842
55.00	MW 50m 50w	0.772

Total Length: 480.00 ft Total Volume: 5.349 bbl

Num Fluid Samples: 0

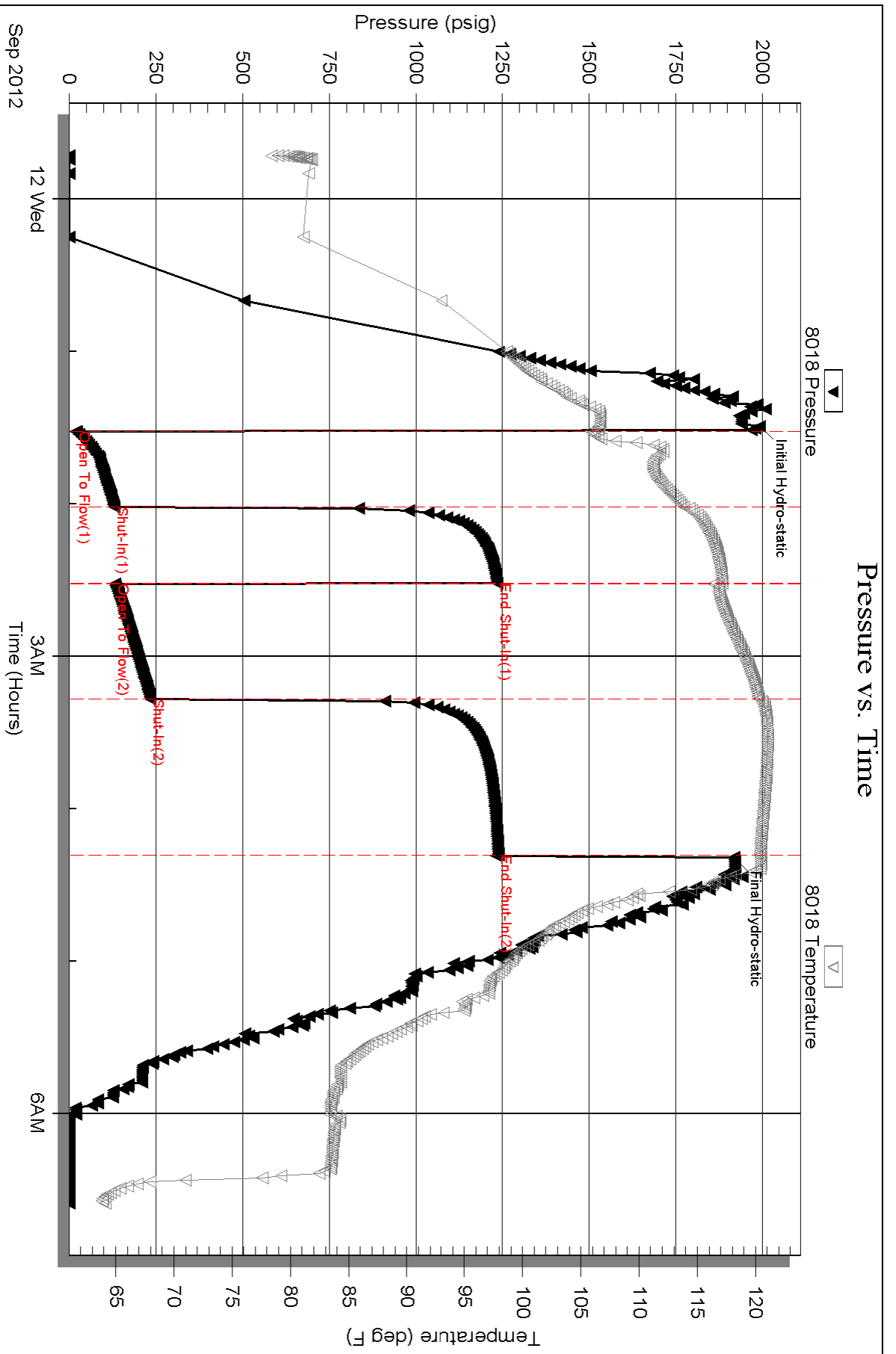
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW:.110 @ 64 Degrees F = 78000 PPM





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50073

DST#: 6

ATTN: Tim Priest

Test Start: 2012.09.12 @ 13:16:00

GENERAL INFORMATION:

Formation: **LKC 'L'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:51:40

Time Test Ended: 20:17:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4134.00 ft (KB) To 4160.00 ft (KB) (TVD)

Reference Elevations: 2842.00 ft (KB)

Total Depth: 4160.00 ft (KB) (TVD)

2832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 1044.54 psig @ 4136.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.12

End Date:

2012.09.12

Last Calib.:

2012.09.12

Start Time: 13:16:01

End Time:

20:17:40

Time On Btm:

2012.09.12 @ 14:49:10

Time Off Btm:

2012.09.12 @ 17:36:39

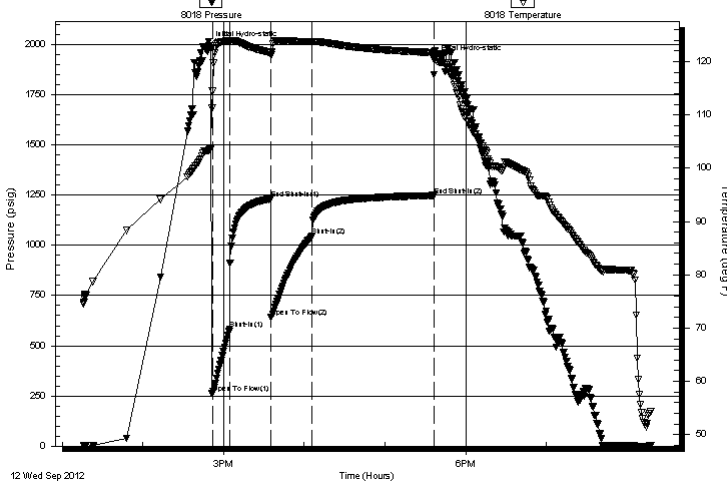
TEST COMMENT: B.O.B. @ 1 min.

Weak surface return died @ 20 min.

B.O.B. @ 1 1/4 min.

No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1993.95	103.36	Initial Hydro-static
3	264.59	114.49	Open To Flow (1)
16	582.41	123.85	Shut-In(1)
46	1230.98	121.67	End Shut-In(1)
47	642.48	121.24	Open To Flow (2)
77	1044.54	123.70	Shut-In(2)
167	1248.09	121.71	End Shut-In(2)
168	1922.95	121.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2040.00	GW 5g 95w	27.23
120.00	MW 50m 50w	1.68
60.00	OSWM 25w 75m	0.84

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50073

DST#: 6

ATTN: Tim Priest

Test Start: 2012.09.12 @ 13:16:00

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: 100000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2040.00	GW 5g 95w	27.231
120.00	MW 50m 50w	1.683
60.00	OSWM 25w 75m	0.842

Total Length: 2220.00 ft Total Volume: 29.756 bbl

Num Fluid Samples: 0

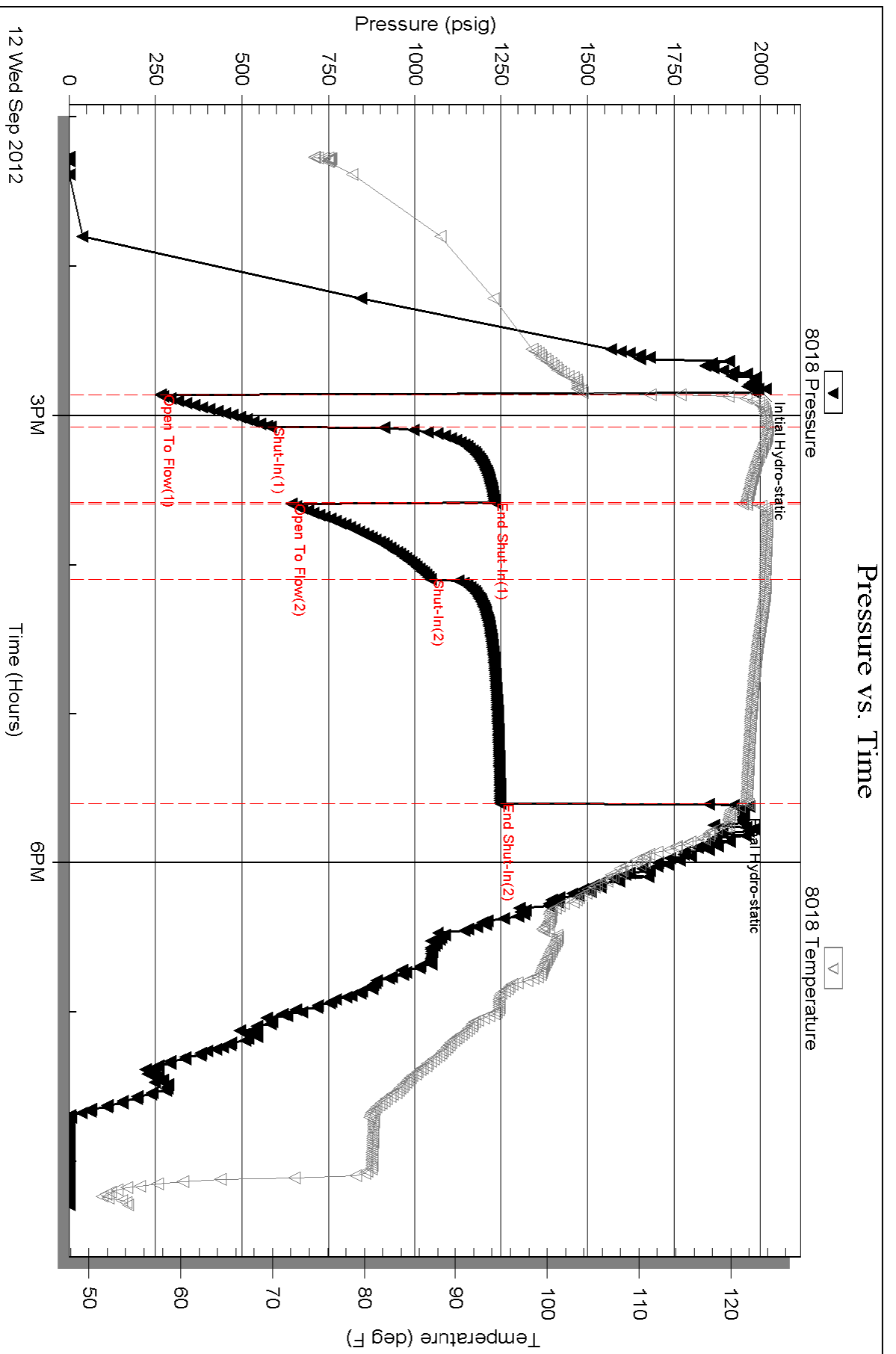
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW:.105 @ 53 Degrees F = 100000 PPM





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S8-14s-32wLogan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50074

DST#: 7

ATTN: Tim Priest

Test Start: 2012.09.14 @ 07:53:00

GENERAL INFORMATION:

Formation: **Myric Station - John**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:58:20

Time Test Ended: 15:21:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4338.00 ft (KB) To 4465.00 ft (KB) (TVD)

Reference Elevations: 2842.00 ft (KB)

Total Depth: 4465.00 ft (KB) (TVD)

2832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 53.45 psig @ 4342.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.14

End Date:

2012.09.14

Last Calib.:

2012.09.14

Start Time: 07:53:01

End Time:

15:21:40

Time On Btm:

2012.09.14 @ 09:55:50

Time Off Btm:

2012.09.14 @ 13:30:09

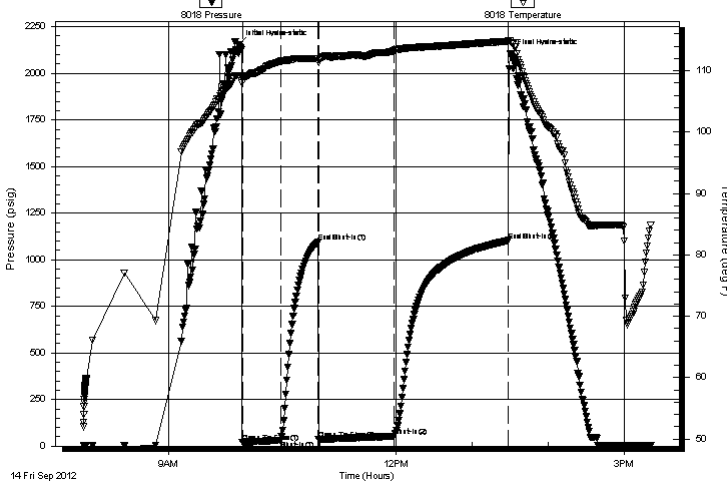
TEST COMMENT: 1 1/2" Blow .

No return.

Surface blow through out.

No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2152.74	109.21	Initial Hydro-static
3	18.72	108.11	Open To Flow (1)
33	31.44	111.55	Shut-In(1)
63	1094.71	111.98	End Shut-In(1)
63	34.97	111.30	Open To Flow (2)
123	53.45	113.30	Shut-In(2)
213	1103.30	114.83	End Shut-In(2)
215	2107.33	114.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	OCM 2o 98m	0.44

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shakespeare Oil Co., Inc.

S8-14s-32wLogan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50074

DST#: 7

ATTN: Tim Priest

Test Start: 2012.09.14 @ 07:53:00

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: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	OCM 2o 98m	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

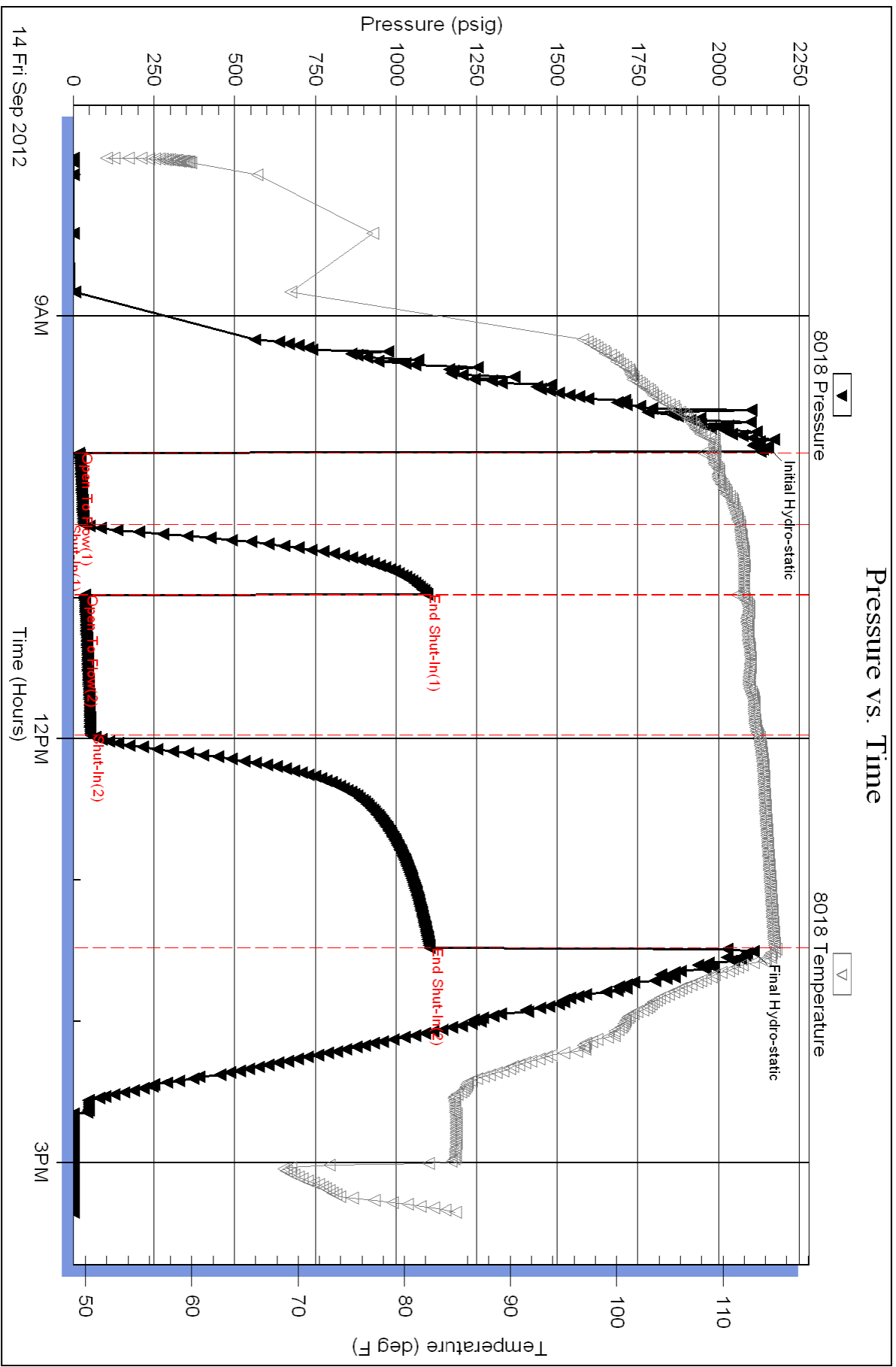
Serial #: 8018

Inside

Shakespeare Oil Co., Inc.

Oilley #1-8

DST Test Number: 7





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Shakespeare Oil Co., Inc.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50075

DST#: 8

ATTN: Tim Priest

Test Start: 2012.09.14 @ 23:01:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:07:40

Time Test Ended: 07:07:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4465.00 ft (KB) To 4510.00 ft (KB) (TVD)

Reference Elevations: 2842.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

2832.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8018

Inside

Press @ Run Depth: 261.16 psig @ 4468.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.14

End Date:

2012.09.15

Last Calib.: 2012.09.15

Start Time: 23:01:01

End Time:

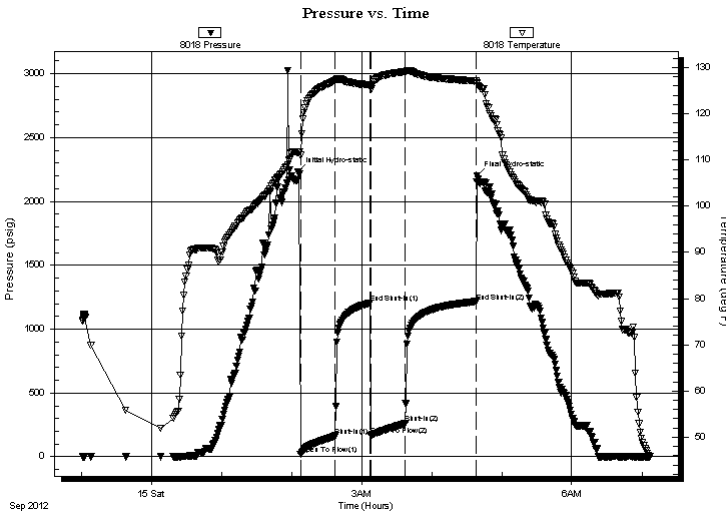
07:07:30

Time On Btm: 2012.09.15 @ 02:05:40

Time Off Btm: 2012.09.15 @ 04:39:00

TEST COMMENT: B.O.B. @ 13 min.
No return.
B.O.B. @ 17 min.
No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2233.34	111.67	Initial Hydro-static
2	22.22	111.00	Open To Flow (1)
32	163.40	127.20	Shut-In(1)
62	1204.52	126.21	End Shut-In(1)
62	168.08	125.67	Open To Flow (2)
92	261.16	129.10	Shut-In(2)
153	1215.96	127.09	End Shut-In(2)
154	2198.49	126.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
480.00	MW 5m 95w	5.35
50.00	MW 30m 70w	0.70
0.00	RW .133 @ 40 Degrees F = 102000 PPM	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.

S8-14s-32w Logan, KS

202 W Main St.
Salem, IL 62881

Ottley #1-8

Job Ticket: 50075

DST#: 8

ATTN: Tim Priest

Test Start: 2012.09.14 @ 23:01:00

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:

102000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
480.00	MW 5m 95w	5.348
50.00	MW 30m 70w	0.701
0.00	RW .133 @ 40 Degrees F = 102000 PPM	0.000

Total Length: 530.00 ft

Total Volume: 6.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

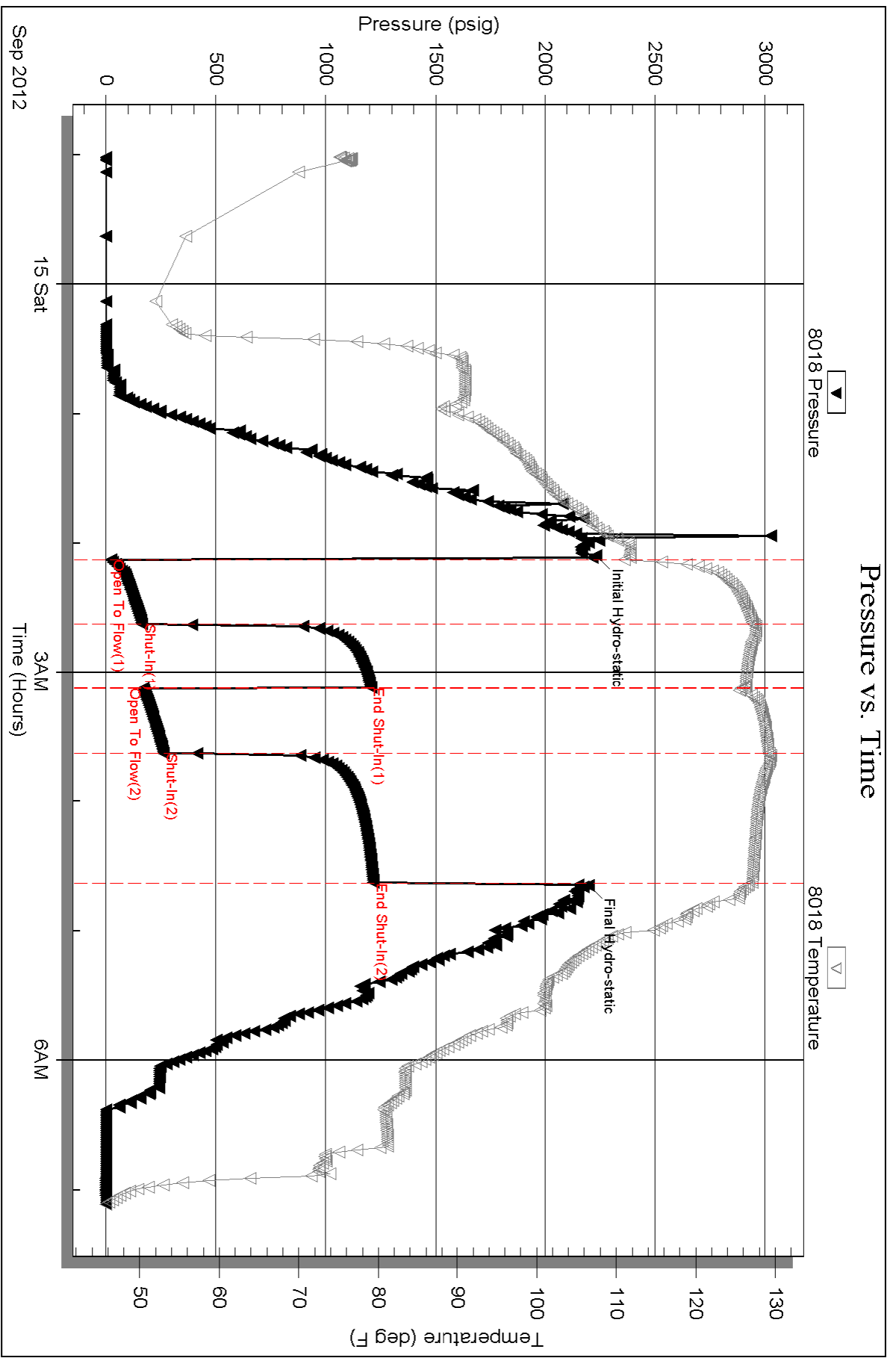
Serial #: 8018

Inside

Shakespeare Oil Co., Inc.

Oilley #1-8

DST Test Number: 8

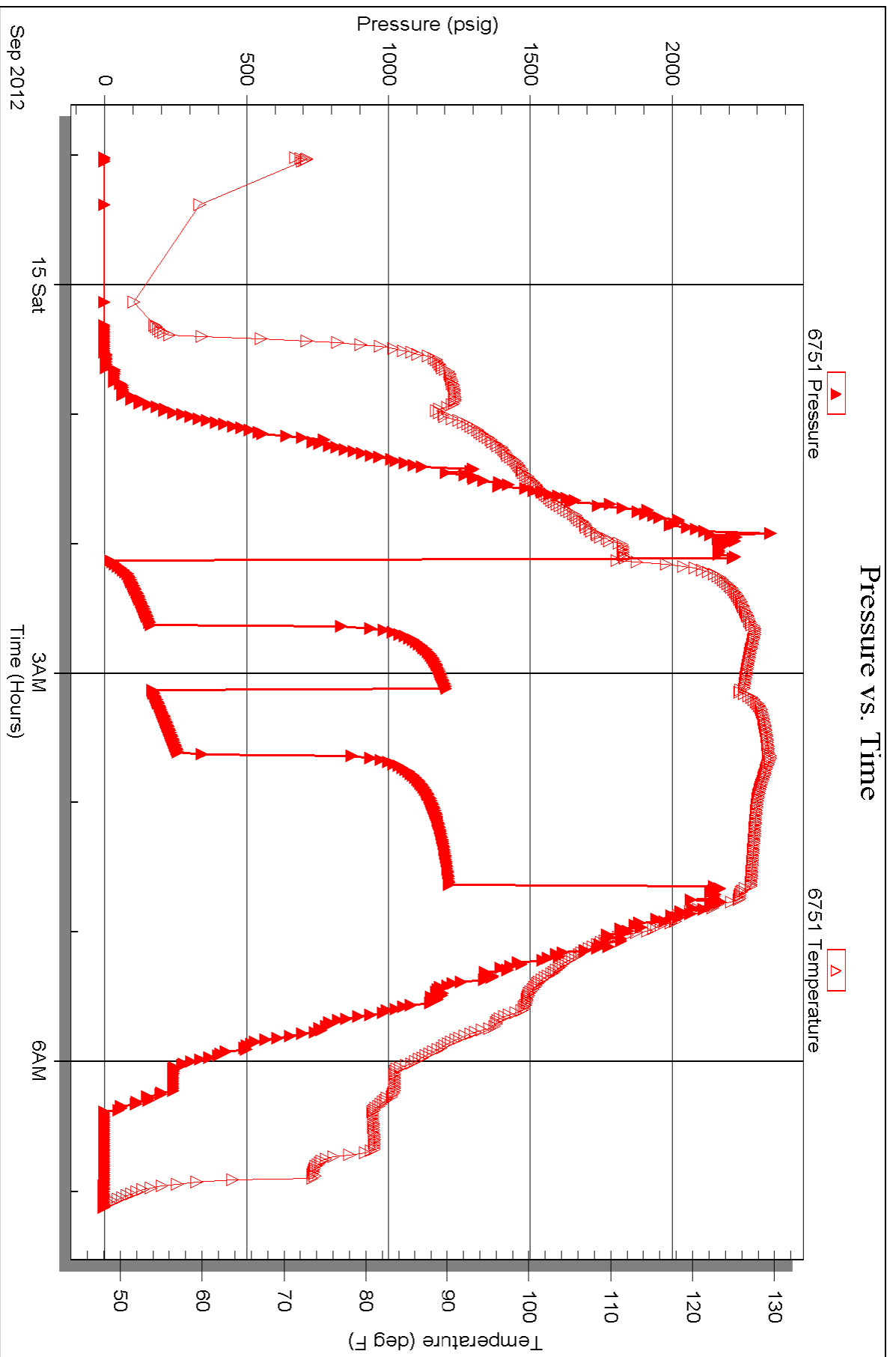


Serial #: 6751

Outside Shakespeare Oil Co., Inc.

Oilley #1-8

DST Test Number: 8





PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 132800
Invoice Date: Sep 16, 2012
Page: 1



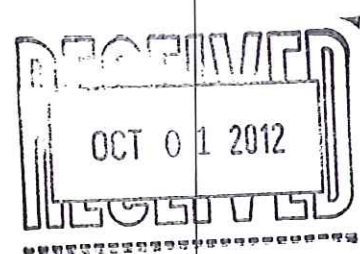
Bill To:
Shakespeare Oil Co., Inc. 202 West Main St. Salem, IL 62881

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Ottley #1-8	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Sep 16, 2012	10/16/12

Quantity	Item	Description	Unit Price	Amount
123.00	MAT	Class A Common	17.90	2,201.70
82.00	MAT	Pozmix	9.35	766.70
7.00	MAT	Gel	23.40	163.80
51.00	MAT	Flo Seal	2.97	151.47
220.15	SER	Cubic Feet	2.48	545.97
211.36	SER	Ton Mileage	2.60	549.54
1.00	SER	Plug to Abandon	2,483.59	2,483.59
23.00	SER	Pump Truck Mileage	7.70	177.10
23.00	SER	Light Vehicle Mileage	4.40	101.20
1.00	EQP	8.5/8 Top Wooden Plug	107.84	107.84
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Chris Helpingstine		

INT

10502-17



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

\$ 2319.65

ONLY IF PAID ON OR BEFORE Oct 11, 2012

Subtotal	7,248.91
Sales Tax	565.41
Total Invoice Amount	7,814.32
Payment/Credit Applied	
TOTAL	7,814.32

DW

ALLIED OIL & GAS SERVICES, LLC 056691

Federal Tax I.D.# 20-5976804

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67065

SERVICE POINT:

Oakley

DATE <u>9-16-12</u>	SEC. <u>8</u>	TWP. <u>14</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00 AM</u>	JOB FINISH <u>11:00 AM</u>
LEASE <u>Offley</u>	WELL # <u>1-8</u>	LOCATION <u>Oakley 175-3W-25-1/2E</u>			COUNTY <u>Lyon</u>	STATE <u>Ks.</u>	
OLD OR <u>(NEW)</u> (Circle one)				Ninto		1-23 1/8	

CONTRACTOR HD #2 OWNER Same

TYPE OF JOB PTA

HOLE SIZE 7 7/8 TD. 4600' CEMENT

CASING SIZE DEPTH AMOUNT ORDERED 205 SKS 60/40 4% Gal

TUBING SIZE DEPTH 1/4" Fl Seal

DRILL PIPE 4 1/2 DEPTH 2325'

TOOL DEPTH

PRES. MAX MINIMUM COMMON 123 SKS @ \$17.90 = \$2201.70

MEAS. LINE SHOE JOINT POZMIX 82 SKS @ \$9.33 = \$766.70

CEMENT LEFT IN CSG. ORL .7 SKS @ \$23.90 = \$16.73

PERFS. CHLORIDE

DISPLACEMENT 20.5 ASC

EQUIPMENT Fl Seal 51" @ \$297 = \$151.17

PUMP TRUCK CEMENTER Darren Racette

423-281 HELPER Tyler Flipse

BULK TRUCK

317 DRIVER Chris Helpmystine

BULK TRUCK DRIVER

HANDLING 230.15 CF X @ \$2.42 = \$545.97

MILEAGE 9.19 X 23 X @ \$2.20 = \$409.56

TOTAL 4457.29

REMARKS:

11x 25 SKS Cement 2325'
11x 20 SKS Cement 1325'
11x 40 SKS Cement 225'
11x 10 SKS Cement 40'

Plug Bathole 30 SKS Cement

Thank You.

CHARGE TO: Shakespeare

STREET:

CITY STATE ZIP

SERVICE

DEPTH OF JOB 2325' 2493.58

PUMP TRUCK CHARGE 412.50 2771.08

EXTRA FOOTAGE @

MILEAGE 23 @ 7.70 177.10

MANIFOLD @

Lumslange @ 4.40 101.20

TOTAL 2761.88

PLUG & FLOAT EQUIPMENT

1 Top Wooden Plug \$107.84

@

@

@

@

TOTAL 107.84

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

SALES TAX (If Any) 731.01

TOTAL CHARGES 7,448.93

DISCOUNT 2,353.65 IF PAID IN 30 DAYS

32%



INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 132619
Invoice Date: Sep 4, 2012
Page: 1

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



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

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Shak	Ottley #1-8	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Sep 4, 2012	10/4/12

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	17.90	2,953.50
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
177.28	SER	Cubic Feet	2.48	439.65
187.21	SER	Ton Mileage	2.60	486.77
1.00	SER	Surface	1,512.25	1,512.25
23.00	SER	Pump Truck Mileage	7.70	177.10
1.00	SER	Manifold Rental	275.00	275.00
23.00	SER	Light Vehicle Mileage	4.40	101.20
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	D J Gray		

INT

Surface
10502-S

RECEIVED
SEP 17 2012

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

\$ 1599.91

ONLY IF PAID ON OR BEFORE
Sep 29, 2012

Subtotal	6,399.67
Sales Tax	265.80
Total Invoice Amount	6,665.47
Payment/Credit Applied	
TOTAL	6,665.47

DW

ALLIED OIL & GAS SERVICES, LLC 056679

Federal Tax I.D.# 20-5976804

MAIL TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Oakley

9-4-12	SEC. 8	TWP. 14	RANGE 32	CALLED OUT	ON LOCATION	JOB START 1:00 PM	JOB FINISH 1:30 PM
Attley	WELL # 1-8	LOCATION Oakley 17 S-31 W-25-1/2 E		Logan	STATE KS.	7.8	
D OR (NEW) (Circle one)				Ninto		1.01	

TRACTOR HD #2

PE OF JOB Surface

LB SIZE 12 1/4 TD. 226

SING SIZE 8 3/8 DEPTH 225

BING SIZE DEPTH

ILL PIPB DEPTH

OL DEPTH

ES. MAX MINIMUM

AS. LINE SHOB JOINT

MENT LEFT IN CSG. 15'

RES.

PLACEMENT 13.44

EQUIPMENT

OWNER Same

CEMENT

AMOUNT ORDERED 165 SKS Com 3% CC

2% Gel

COMMON	<u>165 SKS.</u>	@ <u>\$17.92</u>	<u>\$2953.50</u>
POZMIX		@	
OBL	<u>3 SKS.</u>	@ <u>\$23.40</u>	<u>\$70.20</u>
CHLORIDE	<u>6 SKS.</u>	@ <u>\$67.20</u>	<u>\$403.20</u>
ASC		@	

MP TRUCK CEMENTER Darren Racetta 1

23-281 HELPER Tyler Flipse 2

LK TRUCK

347 DRIVER DJ Gray 3

LK TRUCK DRIVER

HANDLING 177.28 X @ \$2.48 \$439.65

MILBAGB 8.14 X 23X @ \$2.60 \$211.64

187.21 TOTAL \$4334.12

REMARKS:

fix 165 SKS Cement

is place with water

ement did circulate

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE \$1512.35

BXTRA FOOTAGE @

MILBAGB 23 @ \$7.70 \$177.10

MANIFOLD @ \$275.00

Lumileage @ \$44.40 \$101.20

ARGO TO: Shake space

REBT

TY. STATE ZIP

TOTAL \$2065.55

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

I, 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 Good Job!

SIGNATURE Doug Roberts

TOTAL

SALBS TAX (if Any) 265.80

TOTAL CHARGES 6,399.67

DISCOUNT 1549.91 IF PAID IN 30 DAYS

25%

TIM PRIEST
Petroleum Geologist
(316)-213-6115

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY SHAKESPEARE OIL CO.
LEASE Ottley 1-8
FIELD Wildcat
LOCATION 2301' FSL, 2270' FEL
SEC 8 TWSP 14S RGE 32W
COUNTY Logan STATE Kansas

ELEVATIONS

KB 2852'
DF _____
GL 2842'

Measurements Are Al
From KB

CONTRACTOR HD DrillingRig #2
SPUD 9-4-12 COMP _____
RTD 4600' LTD 4599'
MUD UP 3500' TYPE MUD Chemical

CASING

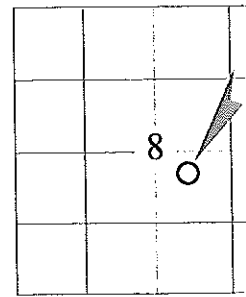
CONDUCTOR N/A
SURFACE 8-5/8" @ 22'
PRODUCTION None

SAMPLES SAVED FROM 3650' to RTD
DRILLING TIME KEPT FROM 3650' to RTD
SAMPLES EXAMINED FROM 3650' to RTD
GEOLOGICAL SUPERVISION FROM 3800' to RTD
GEOLOGIST ON WELL Tim Priest

**ELECTRICAL
SURVEYS**
CND;D/SP;P.E.

Micro
By: Weatherford

FORMATION TOPS	ELECTRIC LOG	SAMPLE
Anhydrite	2308 (+540)	2310 (+542)
Heebner Shale	3813 (-961)	3814 (-962)
Lansing	3854 (-1000)	3854 (-1002)
Stark	4096 (-1244)	4098 (-1246)
BKC	4177 (-1325)	4177 (-1325)
Fort Scott	4364 (-1512)	4365 (-1513)
Cherokee Shale	4390 (-1538)	4391 (-1539)
Mississippian	4509 (-1657)	4509 (-1657)











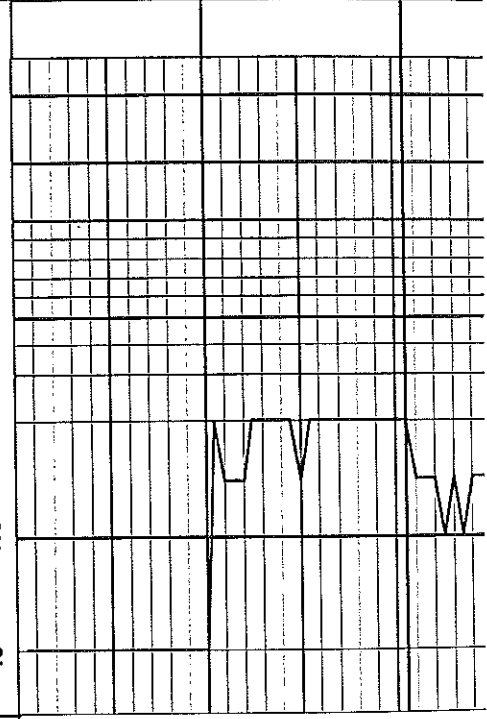
REMARKS Due to the negative results of drill stem tests, it was decided to plug and abandon the well.

Respectfully Submitted,

Tim Priest

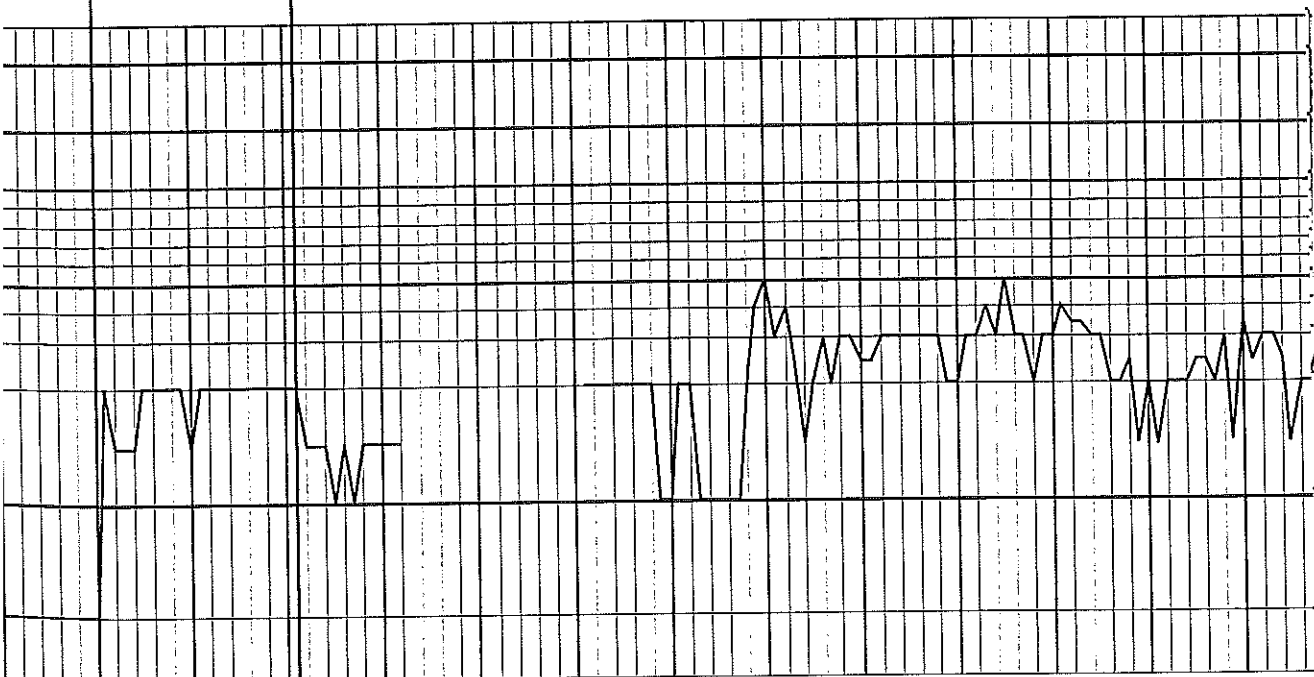
Petroleum Geologist

API #15-109-21098-00-00

LITHOLOGY	DEPTH	DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decreases	SAMPLE DESCRIPTION	REMARKS
 Anhydrite  Sandstone  Limestone  Shale  Carb Sh  Cherty LS  Chert  Dolomite	2300			Anhydrite 2310(+542) Base/ Anhydrite 2231(+521)

Anhydrite
2310(+542)

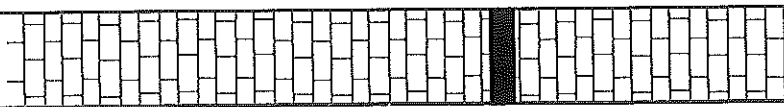
Base/ Anhydrite
2231(+521)

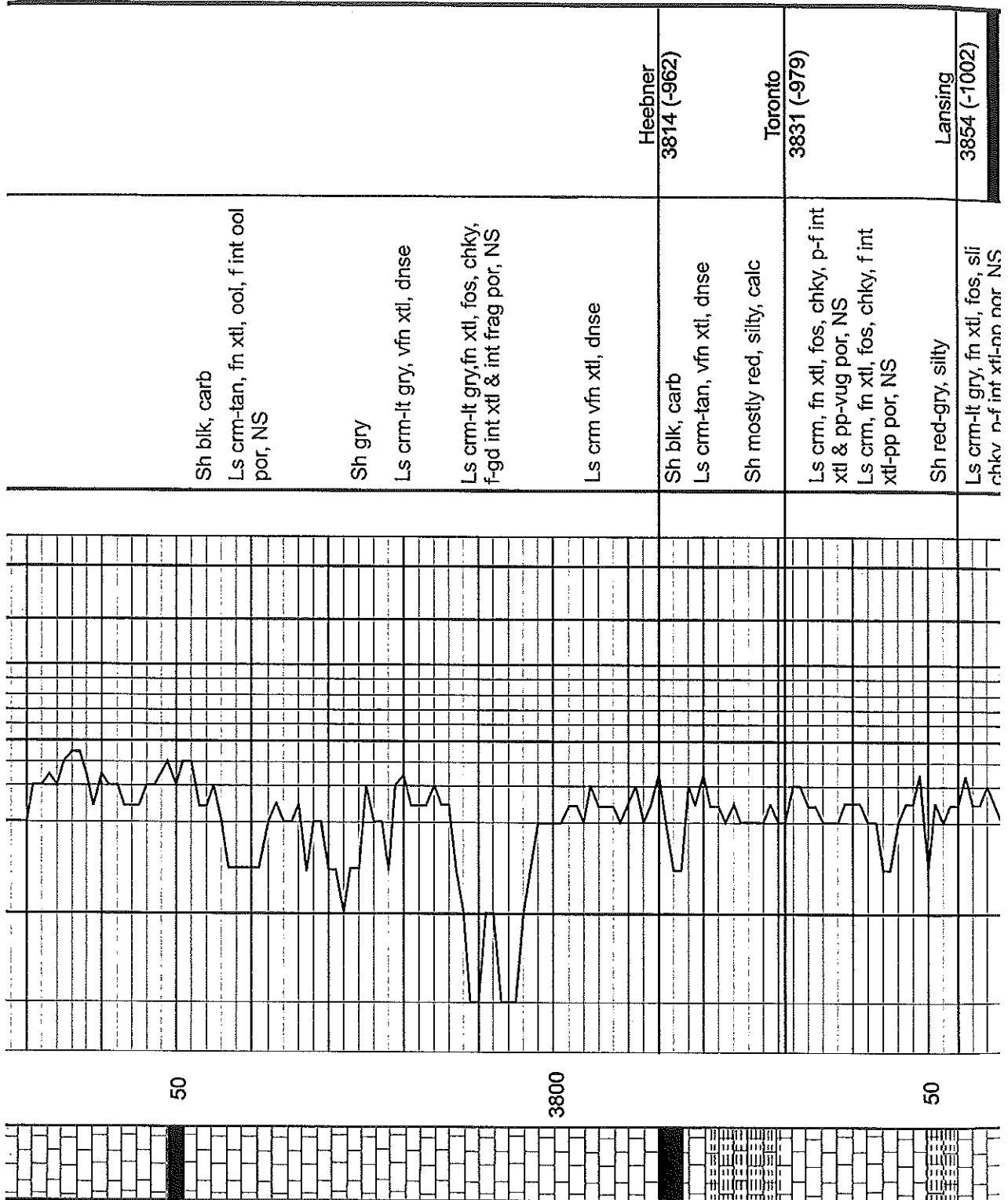


2300

50

3700





Lansing
3854 (-1002)

DST #1
(3880-3904)
 30'-30"-45'-60"
 IF: Built to 1/2 in., no return
 FF: Built to 1 1/2 in., no return
 Rec: 75' OSWM(65%W, 35%M)

Fps: 15-28#/20-58#
 SIPs: 1148#/1154#
 HSPs: 1857#/1840#
 BHT: 111 deg F
 Chlor: 24,000ppm

Pipe strap @ 3904' was 1.99 short to board

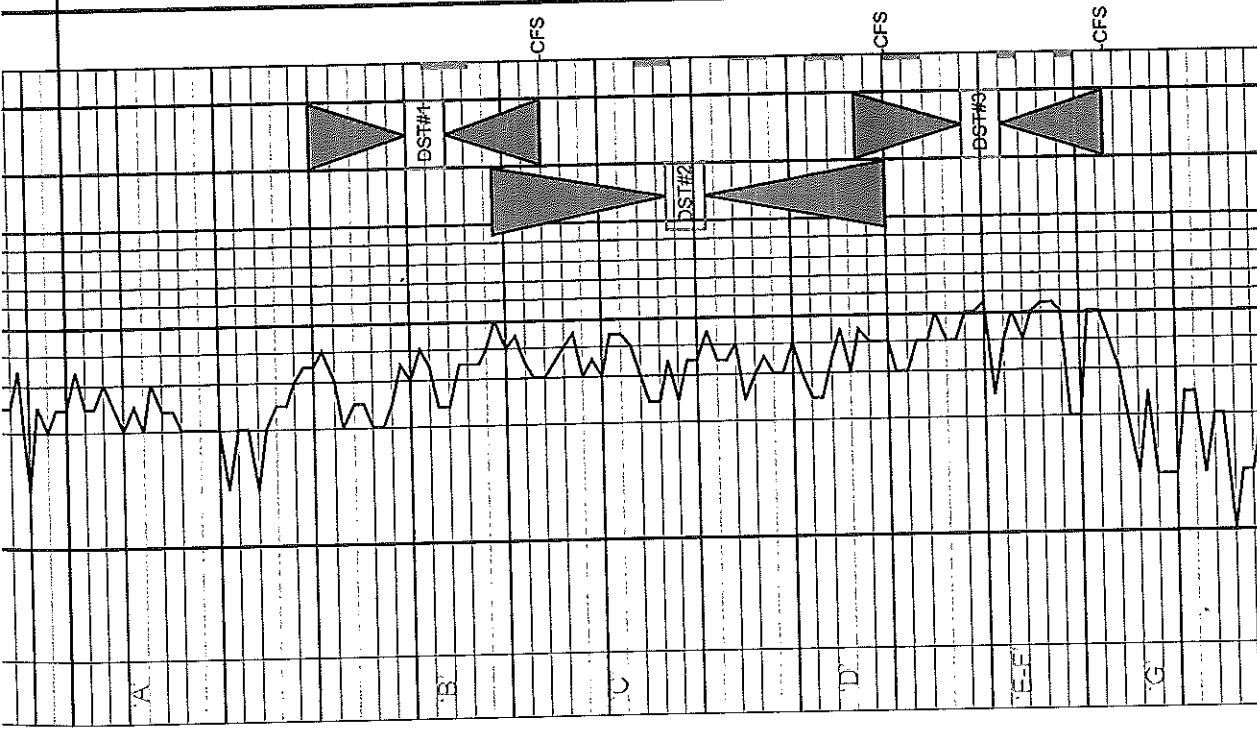
DST #2
(3899-3940)
 15'-30"-45'-90"
 IF: BOB in 11', no return
 FF: BOB in 15', no return
 Rec: 5' GCC(3%G,97%O)
 55' OSWM(40%W,60%M)
 120' OSWM(75%W,25%M)
 360' MW(95%W,5%M)
 540' Total fluid

Fps: 44-121#/124-257#
 SIPs: 1076#/954#
 HSPs: 1820#/1843#
 BHT: 116 deg F
 Chlor: 50,000ppm

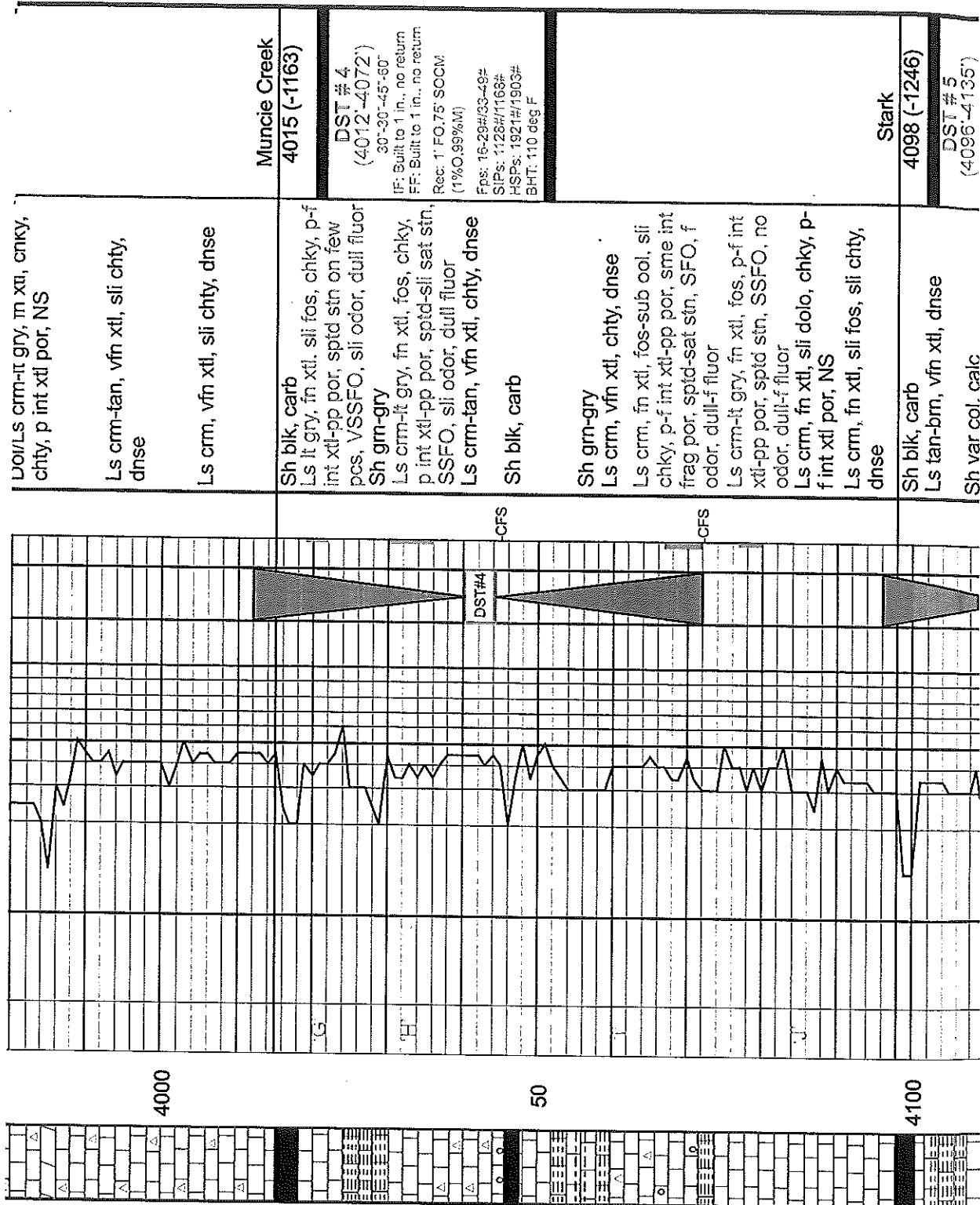
DST #3
(3937-3963)
 15'-30"-45'-90"
 IF: BOB in 13', no return
 FF: BOB in 17', no return
 Rec: 90' OSWM(65%W, 45%M), 360' MW(97%W, 3%M), Total: 450'

Fps: 26-116#/120-216#
 SIPs: 1119#/1067#
 HSPs: 1832#/1774#
 BHT: 116 deg F
 Chlor: 80,000ppm

Sh red-gry, silty
 Ls crm-lt gry, fn xtl, fos, sli chky, p-f int xtl-pp por, NS
 Ls crm, fn xtl, fos, chky, f int xtl-pp por, NS
 Ls crm-lt gry, vfn xtl, dnse
 Sh gm-gry
 Ls crm, fn xtl, fos-sub ool, sli chky, p-f int xtl & int frag por, spid-sli sat dk stn, SFO, sli odor, dull fluor
 Sh gm-gry
 Ls crm-lt gry, fn xtl, fos-ool, sli chky, p-f int xtl-pp por w/scar vugs, spid-sli sat stn, SFO, sli odor, dull-f fluor
 Sh gm-gry
 Ls crm-lt gry, fn xtl, fos-sli ool, sli chky, p-f int xtl-pp por w/few vugs, spid-sli sat stn, SSFO, v sli odor, dull fluor
 Sh gry
 Ls crm, fn xtl, fos, chky, p-f int xtl-pp por w/few vugs, spid-sat stn, SFO, sli odor, dull-f fluor
 Dol crm, fn-med xtl, chky, f int xtl por, NS



50
 3900
 50



**Muncie Creek
4015 (-1163)**

**DST # 4
(4012-4072')**

30"-30"-45"-50"
 IF: Built to 1 in., no return
 FF: Built to 1 in., no return
 Rec: 1' FO: 75' SOCM
 (1%O, 99%M)
 Fps: 16-29#/33-49#
 SIPs: 1128#/1168#
 HSPs: 1921#/1903#
 BHT: 110 deg F

**Stark
4098 (-1246)**

**DST # 5
(4096-4135')**

Uo/Ls crm-it gry, m xtl, crnky,
 chty, p int xtl por, NS

Ls crm-tan, vfn xtl, sli chty,
 dnse

Ls crm, vfn xtl, sli chty, dnse

Sh blk, carb
 Ls lt gry, fn xtl, sli fos, chky, p-f
 int xtl-pp por, sptd stn on few
 pcs, VSSFO, sli odor, dull fluor
 Sh grn-gry

Ls crm-it gry, fn xtl, fos, chky,
 p int xtl-pp por, sptd-sli sat stn,
 SSFO, sli odor, dull fluor
 Ls crm-tan, vfn xtl, chty, dnse

Sh blk, carb

Sh grn-gry

Ls crm, vfn xtl, chty, dnse

Ls crm, fn xtl, fos-sub ool, sli
 chky, p-f int xtl-pp por, sme int
 frag por, sptd-sat stn, SFO, f
 odor, dull-f fluor

Ls crm-it gry, fn xtl, fos, p-f int
 xtl-pp por, sptd stn, SSFO, no
 odor, dull-f fluor

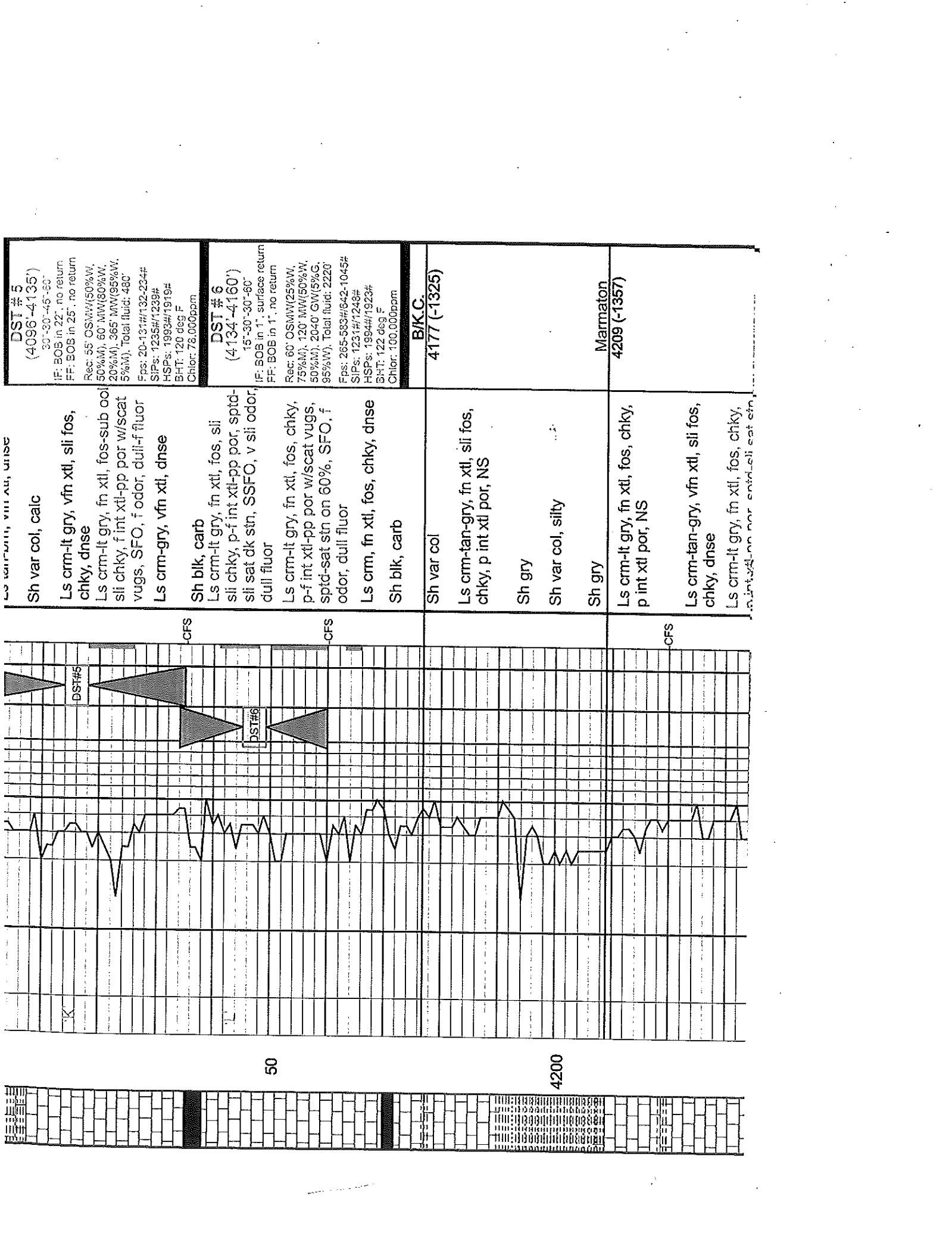
Ls crm, fn xtl, sli dolo, chky, p-
 f int xtl por, NS

Ls crm, fn xtl, sli fos, sli chty,
 dnse

Sh blk, carb

Ls tan-brn, vfn xtl, dnse

Sh var col. calc



DST # 5
 (4096-4135')
 30°-30'-45"-60"
 IF: BOB in 22', no return
 FF: BOB in 25', no return
 Rec: 55' OSMW(50%W,
 50%M), 60' MW(80%W,
 20%M), 365' MW(95%W,
 5%W). Total fluid: 480'
 Fps: 20-131#/132-234#
 SIPs: 1235#/1239#
 HSPs: 1993#/1919#
 BHT: 120 deg F
 Chlor: 78,000ppm

DST # 6
 (4134'-4160')
 15°-30'-30"-60"
 IF: BOB in 1', surface return
 FF: BOB in 1', no return
 Rec: 60' OSMW(25%W,
 75%M), 120' MW(50%W,
 50%M), 2040' GW(5%G,
 95%W). Total fluid: 2220'
 Fps: 265-583#/642-1045#
 SIPs: 1231#/1248#
 HSPs: 1994#/1923#
 BHT: 122 deg F
 Chlor: 100,000ppm

B/K.C.
 4177 (-1325)

Marmaton
 4209 (-1357)

Sh var col, calc
 Ls crm-lt gry, vfn xtl, sli fos,
 chky, dnse
 Ls crm-lt gry, fn xtl, fos-sub ool
 sli chky, f int xtl-pp por w/iscat
 vugs, SFO, f odor, dull-f fluor
 Ls crm-gry, vfn xtl, dnse

Sh blk, carb
 Ls crm-lt gry, fn xtl, fos, sli
 sli chky, p-f int xtl-pp por, sptd-
 sli sat dk str, SSFO, v sli odor,
 dull fluor
 Ls crm-lt gry, fn xtl, fos, chky,
 p-f int xtl-pp por w/iscat vugs,
 sptd-sat str on 60%, SFO, f
 odor, dull fluor
 Ls crm, fn xtl, fos, chky, dnse
 Sh blk, carb

Sh var col
 Ls crm-tan-gry, fn xtl, sli fos,
 chky, p int xtl por, NS
 Sh gry
 Sh var col, silty
 Sh gry

Ls crm-lt gry, fn xtl, fos, chky,
 p int xtl por, NS
 Ls crm-tan-gry, vfn xtl, sli fos,
 chky, dnse
 Ls crm-lt gry, fn xtl, fos, chky,
 p int xtl por, NS

CFS
 DST#5

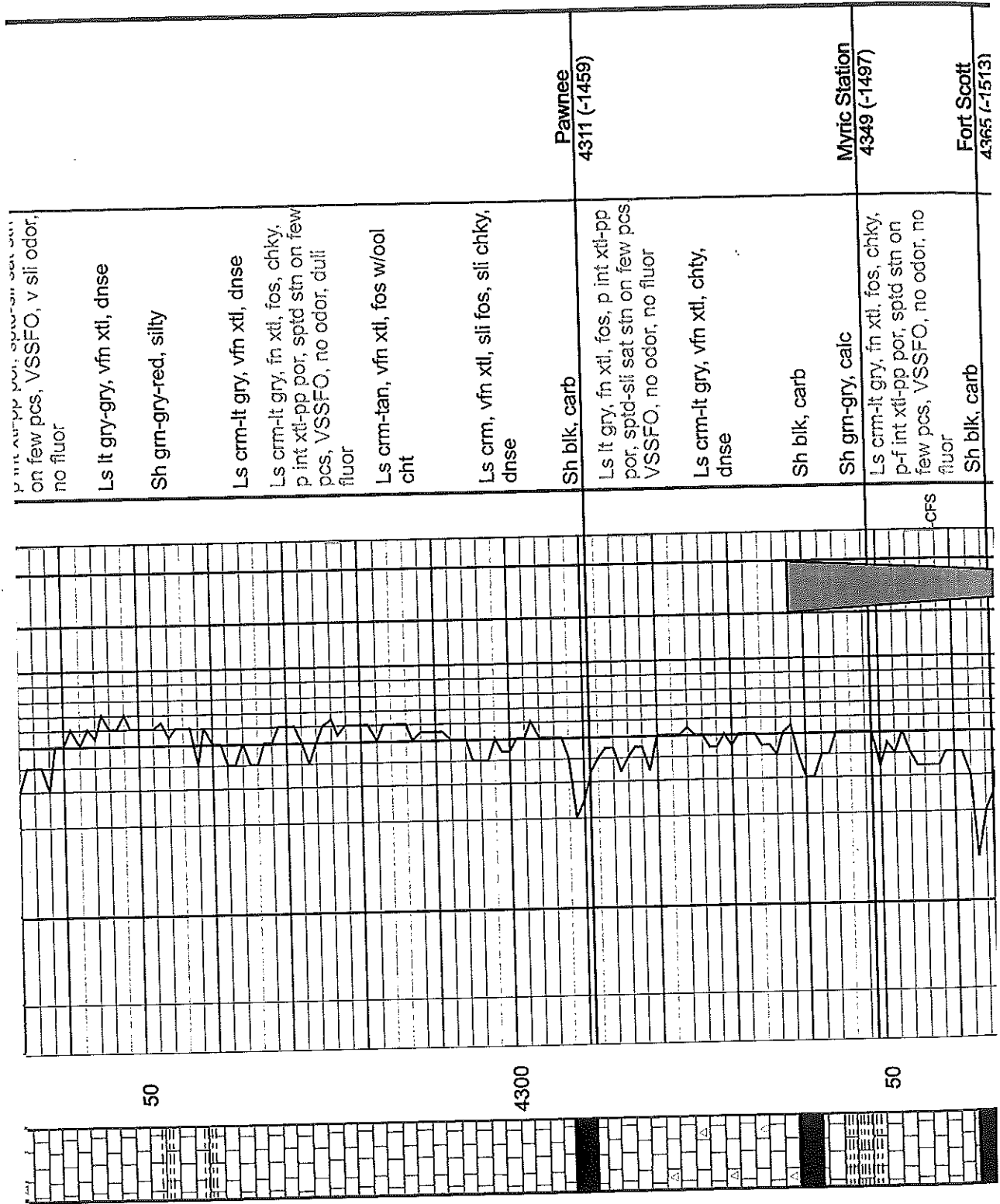
CFS
 DST#6

CFS

CFS

50

4200



on few pcs, VSSFO, v sli odor, no fluor

Ls lt gry-gry, vfn xtl, dnse

Sh grn-gry-red, silty

Ls crm-lt gry, vfn xtl, dnse

Ls crm-lt gry, fn xtl, fos, chky, p int xtl-pp por, sptd strn on few pcs, VSSFO, no odor, dull fluor

Ls crm-tan, vfn xtl, fos w/ool cht

Ls crm, vfn xtl, sli fos, sli chky, dnse

Sh blk, carb

Pawnee
4311 (-1459)

Ls lt gry, fn xtl, fos, p int xtl-pp por, sptd-sli sat strn on few pcs VSSFO, no odor, no fluor

Ls crm-lt gry, vfn xtl, chty, dnse

Sh blk, carb

Sh grn-gry, calc

Myric Station
4349 (-1497)

Ls crm-lt gry, fn xtl, fos, chky, p-f int xtl-pp por, sptd strn on few pcs, VSSFO, no odor, no fluor

Sh blk, carb

Fort Scott
4365 (-1513)

50

4300

50

-cfs

Ls crm-lt gry, fn xtl, fos, chky,
p-f int xtl-pp por, sptd stn on
few pcs, VSSFO, no odor, no
fluor

-CFS



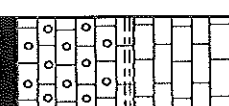
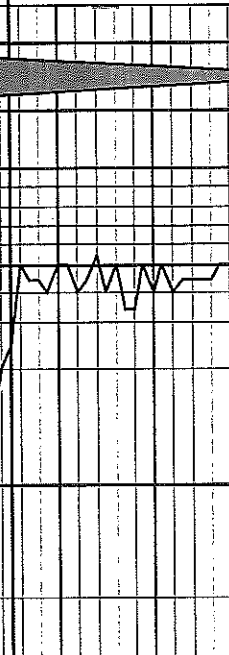
Fort Scott
4365 (-1513)

Ls tan-gry, vfn xtl, ool, dnse

Ls crm-tan, fn xtl, fos, sli chky,
p int xtl-pp por, sptd stn on 2
pcs, VSSFO, sli odor, dull fluor

Ls crm-gry, vfn xtl, sli fos, chky
sli chty, dnse

-CFS



Cherokee Shale
4391 (-1539)

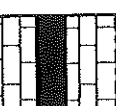
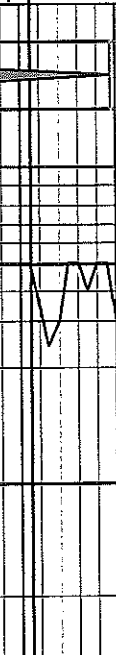
Sh blk, carb

Ls tan-gry, mic xtl, chty, dnse

Ls crm-lt gry, fn xtl, fos, chky,
arg in prt, p int xtl-pp por, NS

Sh blk, carb, w/int bed tan-gry
dnse Ls

-CFS



DST # 7
(4322-4465')
30"-30"-60"-90"
IF: Built to 1 1/2 in., no return
FF: Surface blow, no return
Rec: 90' OCM(2%O, 98%M)
Fps: 19-31#/35-53#
SIPs: 1092#/1103#
HSPs: 2153#/2107#
BHT: 115 deg F

DST#7



Johnson Zone
4435 (-1583)

Sh gry-gm-red

Ls crm-lt gry, fn xtl, fos, p-f int
xtl-pp por w/few vugs, spid-sli
sat stn, SFO, f odor, dull fluor

Ls tan-gry, vfn xtl, dnse

Ls crm-lt gry, fn xtl, fos, sli
chky, p-f int xtl-pp por, spid-sli
sat stn, SSFO, sli odor, dull
fluor

-CFS

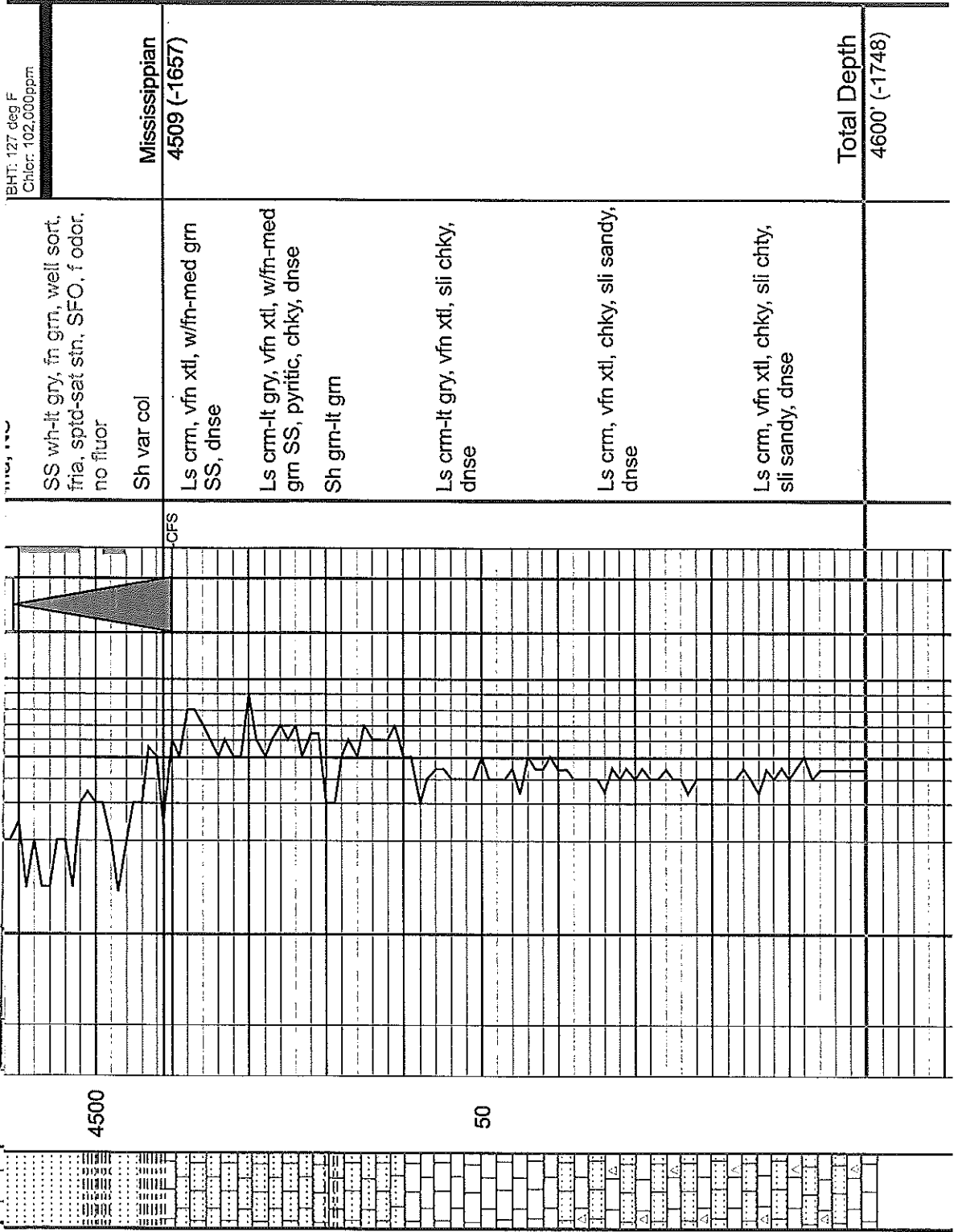


DST # 8
(4465'-4510')
30"-30"-30"-60"
IF: BOB in 13", no return
FF: BOB in 17", no return
Rec: 50' MW(70%W, 30%M)
480' MW(95%W, 5%M).
Total Fluid: 530'
Fps: 22-163#/168-261#
SIPs: 1205#/1216#
HSPs: 2233#/2198#

DST#8



BHT: 127 deg F
 Chlor: 102.000ppm



SS wh-it gry, fn gm, well sort,
 fria, spid-sat str, SFO, f odor,
 no fluor

Sh var col

Ls crm, vfn xtl, w/fn-med gm
 SS, dnse

Ls crm-lt gry, vfn xtl, w/fn-med
 gm SS, pyritic, chky, dnse

Sh gm-lt gm

Ls crm-lt gry, vfn xtl, sli chky,
 dnse

Ls crm, vfn xtl, chky, sli sandy,
 dnse

Ls crm, vfn xtl, chky, sli chty,
 sli sandy, dnse

Mississippian
 4509 (-1657)

Total Depth
 4600' (-1748)

4500

50

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

October 08, 2012

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

Re: ACO1
API 15-109-21098-00-00
Ottley 1-8
SE/4 Sec.08-14S-32W
Logan 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