



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1069759

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Ottley 5-15
Doc ID	1069759

All Electric Logs Run

Array Comp
True Resistivity
Dual Spaced Neutron
Spectral Density
ML/Sonic

Form	ACO1 - Well Completion
Operator	Shakespeare Oil Co., Inc.
Well Name	Ottley 5-15
Doc ID	1069759

Tops

Name	Top	Datum
Base Anhydrite	2224	+528
Heebner	3715	-963
Lansing	3752	-1000
Muncie Creek	3912	-1160
Stark Shale	4002	-1250
BKC	4076	-1324
Cherokee Shale	4283	-1531
Johnson	4325	-1573
Mississippian	4389	-1637



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

ATTN: Steve Davis

Job Ticket: 35329

**DST#: 1**

Test Start: 2009.10.05 @ 08:46:00

## GENERAL INFORMATION:

Formation: **Lansing 'D,E'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:59:45

Time Test Ended: 16:04:45

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 3816.00 ft (KB) To 3840.00 ft (KB) (TVD)**

Reference Elevations: 2752.00 ft (KB)

Total Depth: 3840.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8351**

**Inside**

Press @ Run Depth: 116.21 psig @ 3820.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2009.10.05

End Date:

2009.10.05

Last Calib.:

2009.10.05

Start Time: 08:46:01

End Time:

16:04:45

Time On Btm:

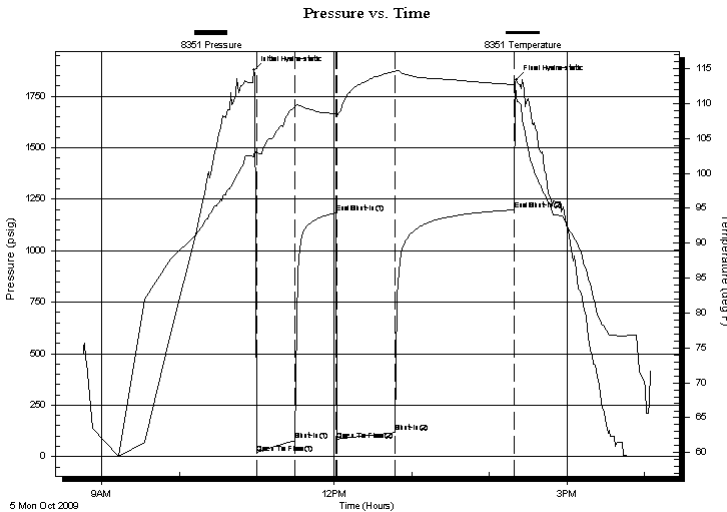
2009.10.05 @ 10:57:45

Time Off Btm:

2009.10.05 @ 14:20:45

**TEST COMMENT:** IF: 5 1/2 " Blow .  
IS: Weak surface return.  
FF: 6" Blow .  
FS: Weak surface return.

## PRESSURE SUMMARY



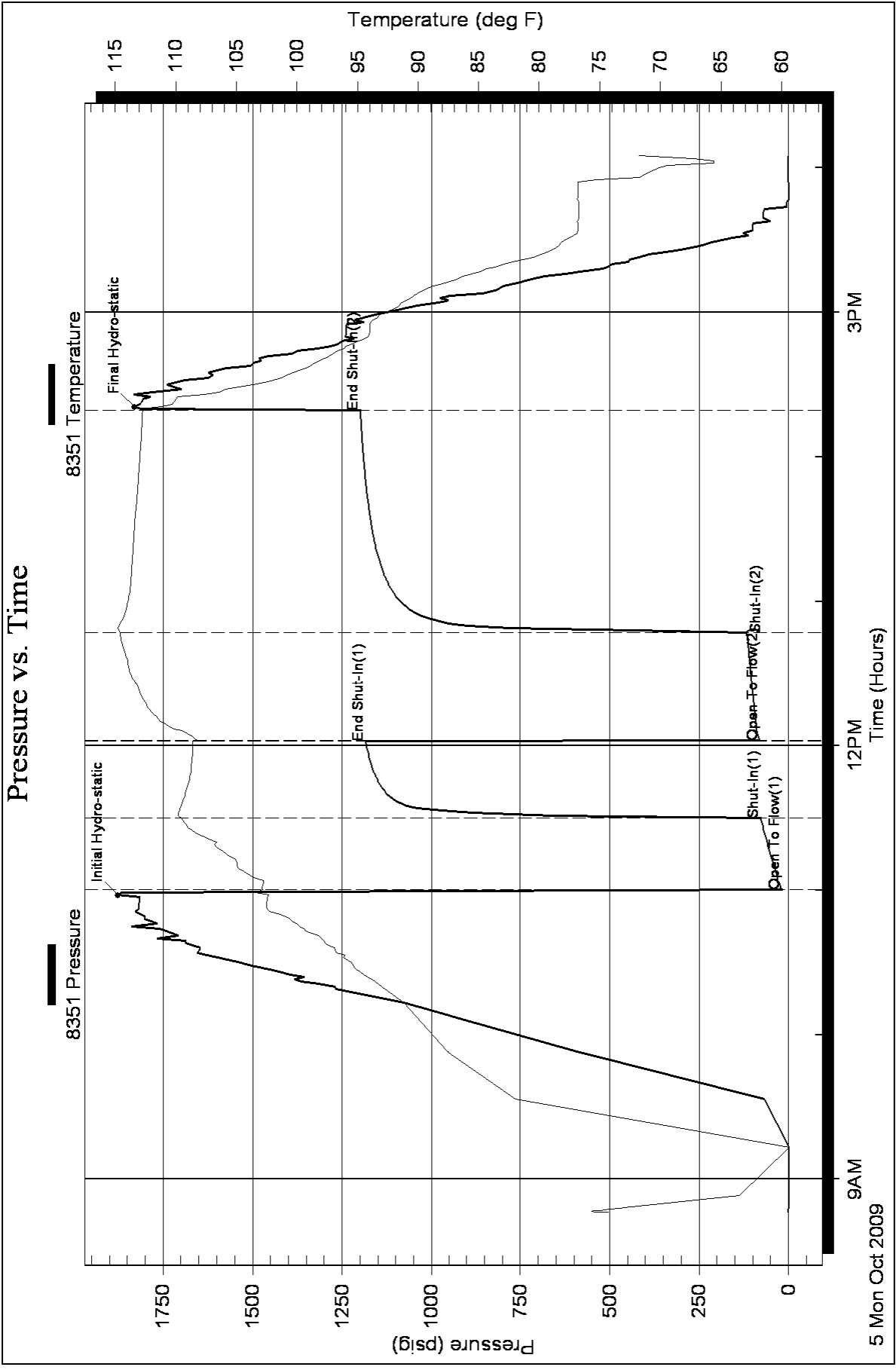
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1875.58	102.32	Initial Hydro-static
2	18.08	102.81	Open To Flow (1)
32	76.83	109.53	Shut-In(1)
64	1183.81	108.58	End Shut-In(1)
64	80.21	108.25	Open To Flow (2)
110	116.21	114.56	Shut-In(2)
202	1198.47	112.72	End Shut-In(2)
203	1829.90	111.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 15%M 85%W	0.61
62.00	OSMW 30%M 70%W	0.87
40.00	OSWM 40%W 60%M	0.56
0.00	RW: .136 @ 77 Degrees F = 48000 chlori	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

ATTN: Steve Davis

Job Ticket: 35330

**DST#: 2**

Test Start: 2009.10.06 @ 09:10:00

## GENERAL INFORMATION:

Formation: **LKC 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:53:15

Time Test Ended: 15:39:30

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 3901.00 ft (KB) To 3940.00 ft (KB) (TVD)**

Reference Elevations: 2752.00 ft (KB)

Total Depth: 3940.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8351 Inside**

Press @ Run Depth: 175.12 psig @ 3906.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2009.10.06

End Date: 2009.10.06

Last Calib.: 2009.10.06

Start Time: 09:10:01

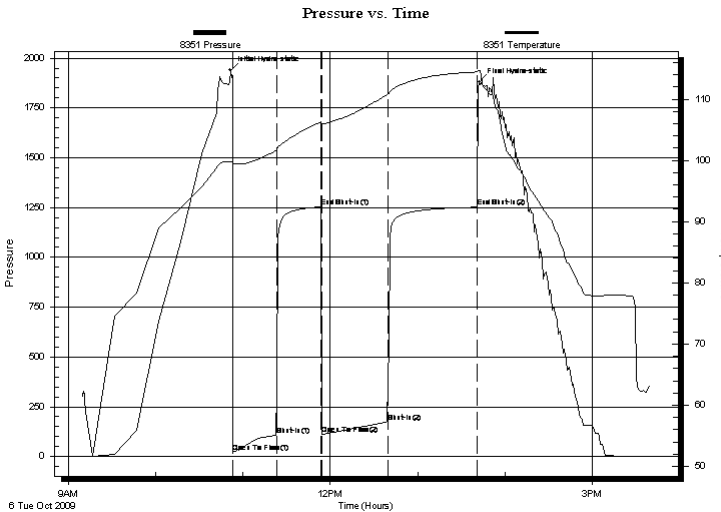
End Time: 15:39:30

Time On Btm: 2009.10.06 @ 10:51:30

Time Off Btm: 2009.10.06 @ 13:42:30

**TEST COMMENT:** IF: 9" Blow.  
IS: No return.  
FF: 11" Blow.  
FS: Weak surface return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.33	99.81	Initial Hydro-static
2	20.08	99.22	Open To Flow (1)
32	108.39	101.65	Shut-In(1)
62	1253.40	106.26	End Shut-In(1)
63	111.13	105.96	Open To Flow (2)
108	175.12	110.75	Shut-In(2)
170	1251.94	114.47	End Shut-In(2)
171	1879.50	114.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 10%M 90%W	0.61
121.00	OSMW 45%M 55%W	1.70
30.00	OSWM 30%W 70%M	0.42
0.00	RW: .145 @ 64 Degrees F = 52000 chlori	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

Job Ticket: 35330

**DST#: 2**

ATTN: Steve Davis

Test Start: 2009.10.06 @ 09:10:00

## 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:

52000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	MW 10%M 90%W	0.610
121.00	OSMW 45%M 55%W	1.697
30.00	OSWM 30%W 70%M	0.421
0.00	RW: .145 @ 64 Degrees F = 52000 chloride	0.000

Total Length: 275.00 ft

Total Volume: 2.728 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

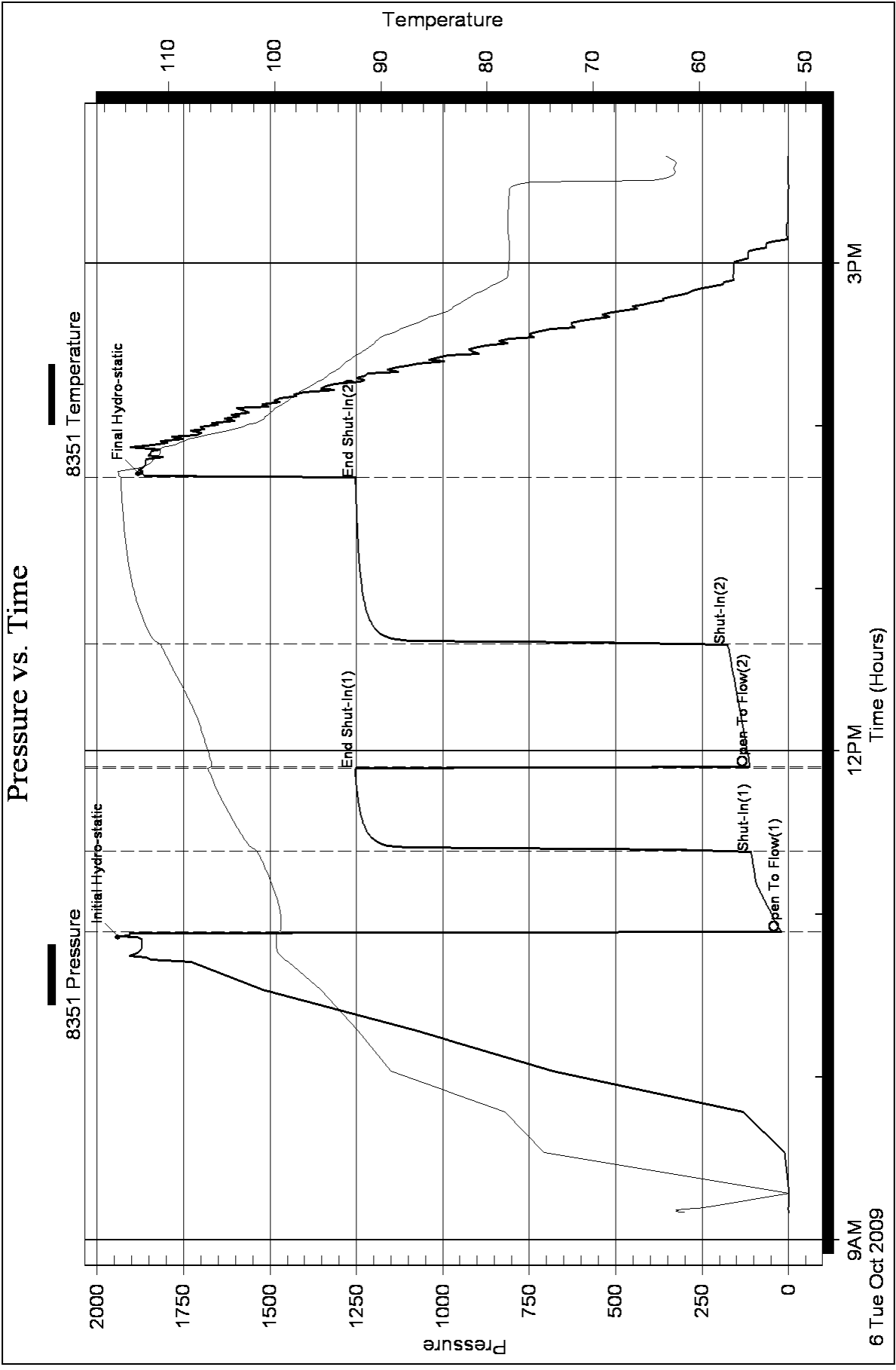
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

ATTN: Steve Davis

Job Ticket: 35331

**DST#: 3**

Test Start: 2009.10.07 @ 00:17:00

## GENERAL INFORMATION:

Formation: **LKC 'I'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:31:24

Time Test Ended: 08:15:36

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 3942.00 ft (KB) To 3973.00 ft (KB) (TVD)**

Reference Elevations: 2752.00 ft (KB)

Total Depth: 3973.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8359**

**Inside**

Press @ Run Depth: 199.98 psig @ 3948.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2009.10.07

End Date:

2009.10.07

Last Calib.:

2009.10.07

Start Time: 00:17:05

End Time:

08:15:36

Time On Btm:

2009.10.07 @ 02:29:48

Time Off Btm:

2009.10.07 @ 05:48:47

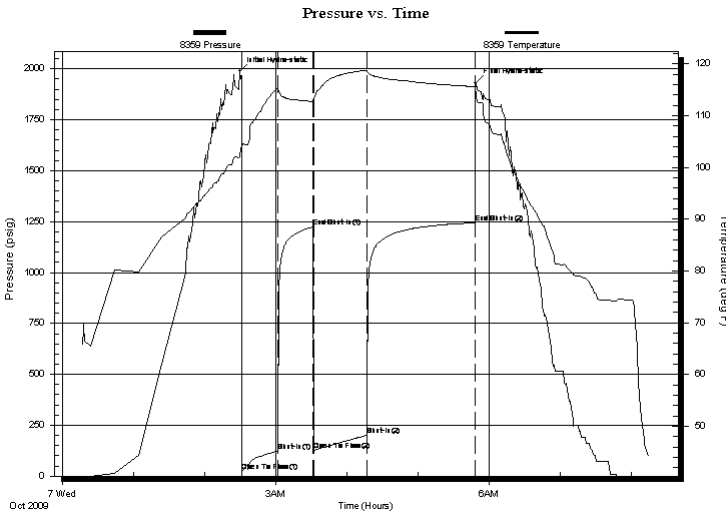
**TEST COMMENT:** IF: B.O.B. @ 22 min.

IS: 1/2" Return.

FF: B.O.B. @ 30 min.

FS: 3 1/2" Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.93	102.37	Initial Hydro-static
2	24.84	103.84	Open To Flow (1)
32	123.46	115.25	Shut-In(1)
62	1223.58	112.75	End Shut-In(1)
62	127.24	113.18	Open To Flow (2)
107	199.98	118.76	Shut-In(2)
198	1243.91	115.62	End Shut-In(2)
199	1930.88	113.77	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
307.00	MW 10%M 90%W	3.18
61.00	OSMW 50%M 50%W	0.86
45.00	GMMCO 5%G 10%M 35%W 50%O	0.63
0.00	RW: .190 @ 50 Degrees F = 50000 chlbr	0.00
0.00	205 Feet GIP weak	0.00

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



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

Job Ticket: 35331

**DST#: 3**

ATTN: Steve Davis

Test Start: 2009.10.07 @ 00:17:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
307.00	MW 10%M 90%W	3.177
61.00	OSMW 50%M 50%W	0.856
45.00	GMWCO 5%G 10%M 35%W 50%O	0.631
0.00	RW: .190 @ 50 Degrees F = 50000 chlorid	0.000
0.00	205 Feet GIP weak	0.000

Total Length: 413.00 ft      Total Volume: 4.664 bbl

Num Fluid Samples: 0

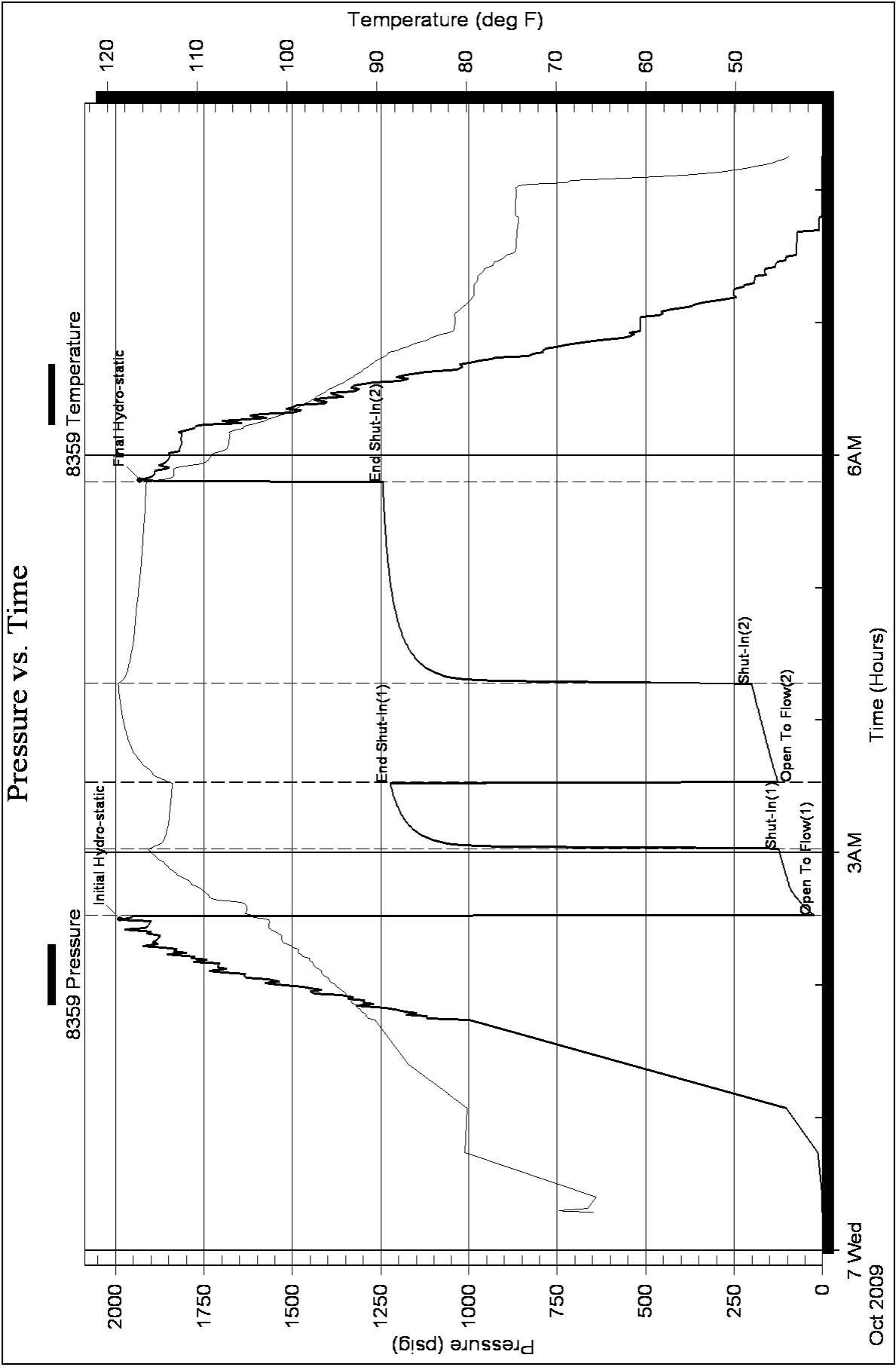
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 35 @ 50 Degrees F = 36.





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

ATTN: Steve Davis

Job Ticket: 35332

**DST#: 4**

Test Start: 2009.10.07 @ 15:31:00

## GENERAL INFORMATION:

Formation: **LKC 'J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:05:00

Time Test Ended: 20:50:47

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 3972.00 ft (KB) To 3998.00 ft (KB) (TVD)**

Reference Elevations: 2752.00 ft (KB)

Total Depth: 3998.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8359**

**Inside**

Press @ Run Depth: 77.12 psig @ 3973.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2009.10.07

End Date:

2009.10.07

Last Calib.:

2009.10.07

Start Time:

15:31:05

End Time:

20:50:47

Time On Btm:

2009.10.07 @ 17:03:24

Time Off Btm:

2009.10.07 @ 19:08:36

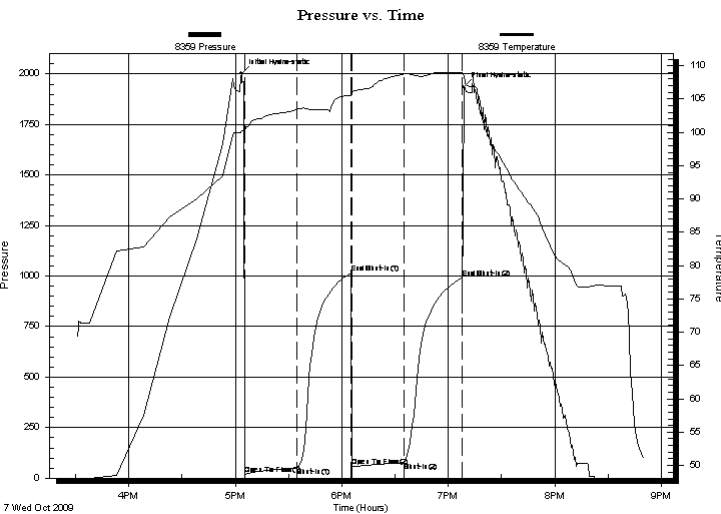
## TEST COMMENT:

IF: 3" Blow.

IS: No return.

FF: 2" Blow.

FS: Weak surface return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.19	99.92	Initial Hydro-static
2	20.00	100.11	Open To Flow (1)
32	51.40	103.46	Shut-In(1)
62	1016.25	105.49	End Shut-In(1)
63	57.66	106.10	Open To Flow (2)
92	77.12	108.76	Shut-In(2)
125	991.90	108.98	End Shut-In(2)
126	1935.71	108.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	SOCM 2%O 98%M	0.30
62.00	OSWM 27%W 73%M	0.30
0.00	RW: .245 @ 56 Degrees F = 40000 chlri	0.00

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

Job Ticket: 35332

**DST#: 4**

ATTN: Steve Davis

Test Start: 2009.10.07 @ 15:31:00

## 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:

40000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	SOCM 2%O 98%M	0.305
62.00	OSWM 27%W 73%M	0.305
0.00	RW: .245 @ 56 Degrees F = 40000 chloride	0.000

Total Length: 124.00 ft

Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

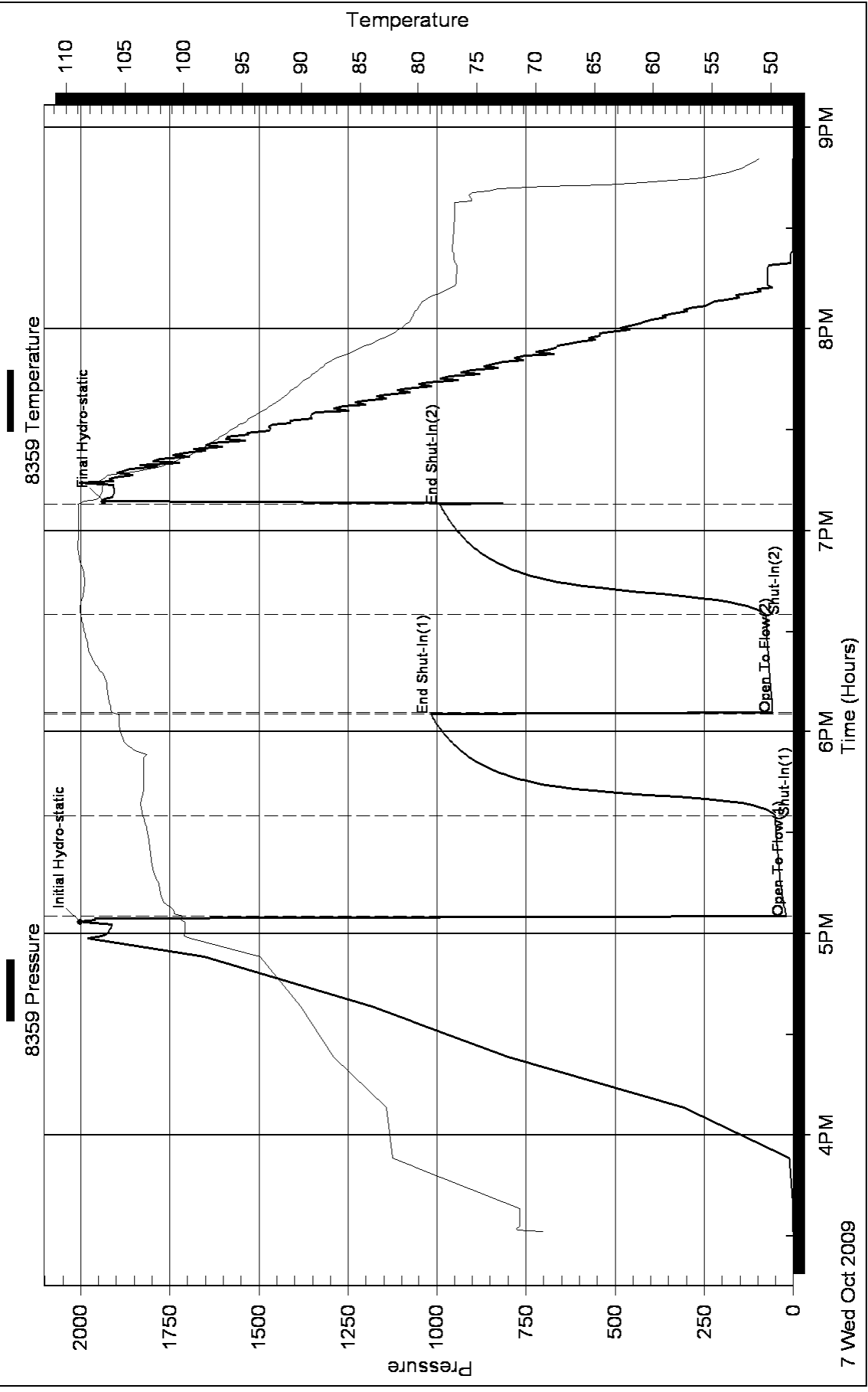
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

ATTN: Steve Davis

Job Ticket: 35333

**DST#: 5**

Test Start: 2009.10.09 @ 07:43:00

## GENERAL INFORMATION:

Formation: **Myric St./Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:41:48

Time Test Ended: 15:21:36

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 4226.00 ft (KB) To 4278.00 ft (KB) (TVD)**

Reference Elevations: 2752.00 ft (KB)

Total Depth: 4278.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8359**

**Inside**

Press @ Run Depth: 97.64 psig @ 4227.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2009.10.09

End Date:

2009.10.09

Last Calib.:

2009.10.09

Start Time:

07:43:05

End Time:

15:21:36

Time On Btm:

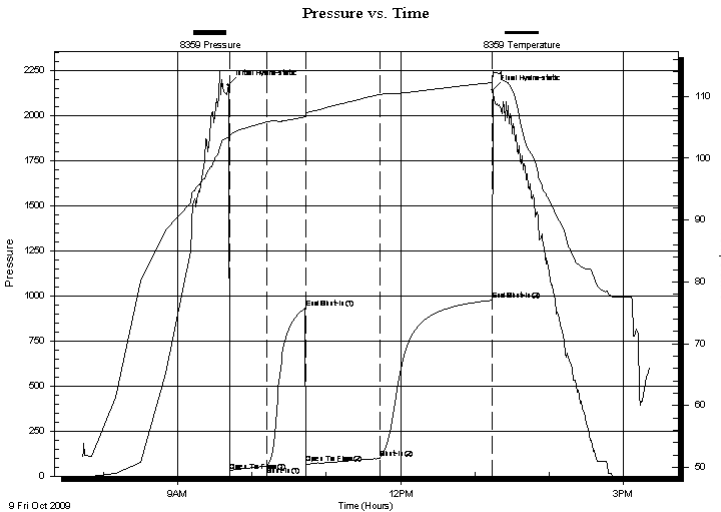
2009.10.09 @ 09:40:48

Time Off Btm:

2009.10.09 @ 13:14:36

**TEST COMMENT:** IF: 3 1/2" Blow .  
IS: Weak surface return.  
FF: 4" Blow .  
FS: 1/2" Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2168.97	103.32	Initial Hydro-static
1	28.61	103.21	Open To Flow (1)
31	55.77	105.91	Shut-In(1)
63	931.21	106.70	End Shut-In(1)
63	69.07	107.21	Open To Flow (2)
123	97.64	110.31	Shut-In(2)
214	974.74	112.24	End Shut-In(2)
214	2141.69	113.84	Final Hydro-static

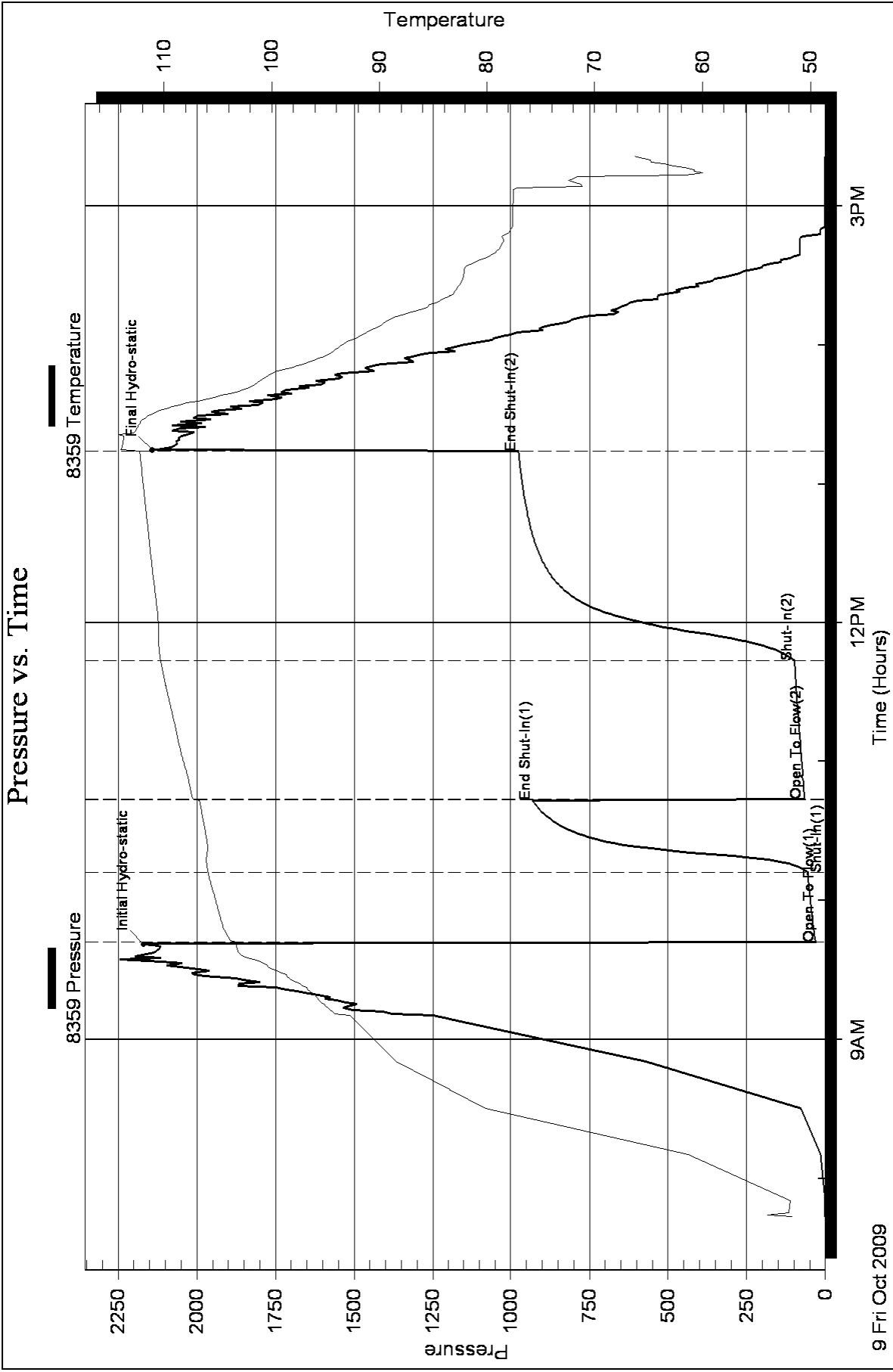
## Recovery

Length (ft)	Description	Volume (bbl)
124.00	SOWCM 1%O 9%W 90%M	0.61
20.00	OWCM 7%O 13%W 80%M	0.28
0.00	Feet GIP	0.00
0.00	RW: .260 @ 65 Degrees F = 29000 chlori	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

ATTN: Steve Davis

Job Ticket: 35334

**DST#: 6**

Test Start: 2009.10.10 @ 05:33:40

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:01:04

Time Test Ended: 13:41:27

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 4303.00 ft (KB) To 4355.00 ft (KB) (TVD)**

Reference Elevations: 2752.00 ft (KB)

Total Depth: 4355.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8359 Inside**

Press @ Run Depth: 80.54 psig @ 4304.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2009.10.10

End Date: 2009.10.10

Last Calib.: 2009.10.10

Start Time: 05:33:45

End Time: 13:41:27

Time On Btm: 2009.10.10 @ 07:59:28

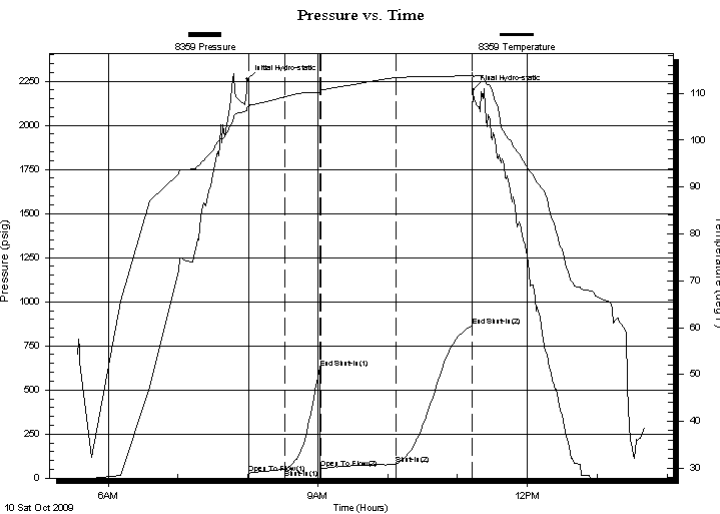
Time Off Btm: 2009.10.10 @ 11:13:27

TEST COMMENT: IF: 2 1/2" Blow .

IS: No return.

FF: 3" Blow .

FS: Surface return died @ 25 min.



## PRESSURE SUMMARY

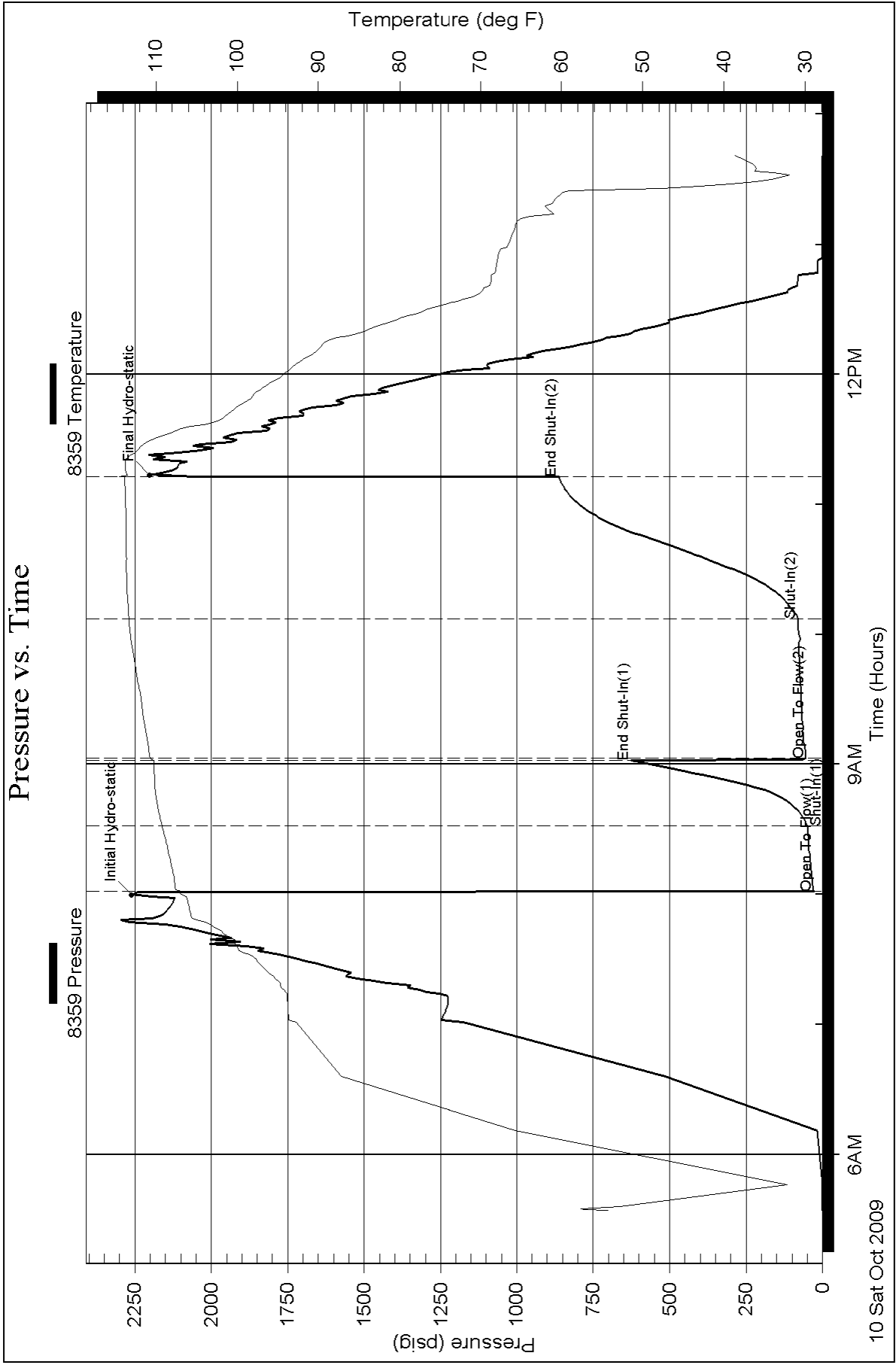
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.42	106.87	Initial Hydro-static
2	28.79	106.79	Open To Flow (1)
32	49.64	109.23	Shut-In(1)
62	625.85	110.23	End Shut-In(1)
63	54.20	110.73	Open To Flow (2)
128	80.54	113.33	Shut-In(2)
193	862.59	113.88	End Shut-In(2)
194	2201.59	113.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	GOCM 5%G 4%O 91%M	0.15
62.00	GOCM 10%G 1%O 89%M	0.30
0.00	90 Feet GIP	0.00

## Gas Rates

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





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Shakespeare Oil

**Ottley #5-15**

202 W. Main  
Salem, IL 62881

**S15-14-32 Logan, KS**

ATTN: Steve Davis

Job Ticket: 35335

**DST#: 7**

Test Start: 2009.10.11 @ 00:56:35

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:14:05

Time Test Ended: 10:30:05

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

**Interval: 4349.00 ft (KB) To 4390.00 ft (KB) (TVD)**

Reference Elevations: 2752.00 ft (KB)

Total Depth: 4390.00 ft (KB) (TVD)

2742.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8351 Inside**

Press @ Run Depth: 386.20 psig @ 4353.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2009.10.11

End Date:

2009.10.11

Last Calib.: 2009.10.11

Start Time: 00:56:36

End Time:

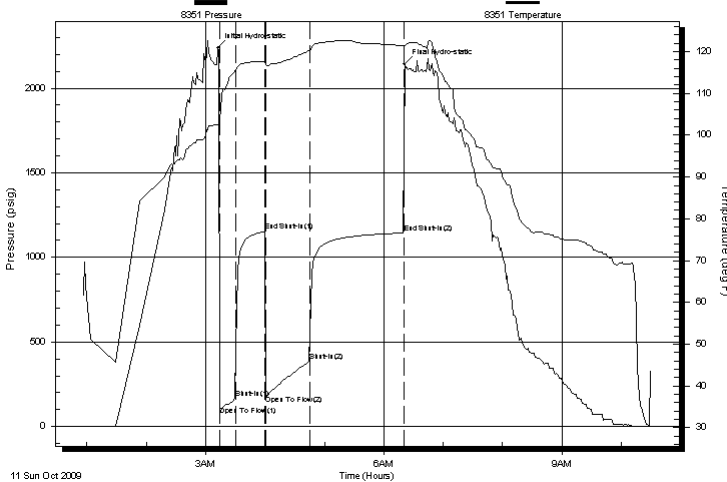
10:30:05

Time On Btm: 2009.10.11 @ 03:12:20

Time Off Btm: 2009.10.11 @ 06:20:50

**TEST COMMENT:** IF: B.O.B. @ 4 min.  
IS: B.O.B. @ 7 min.  
FF: B.O.B. @ 3 1/2 min.  
FS: B.O.B. @ 9 min.

Pressure vs. Time



## PRESSURE SUMMARY

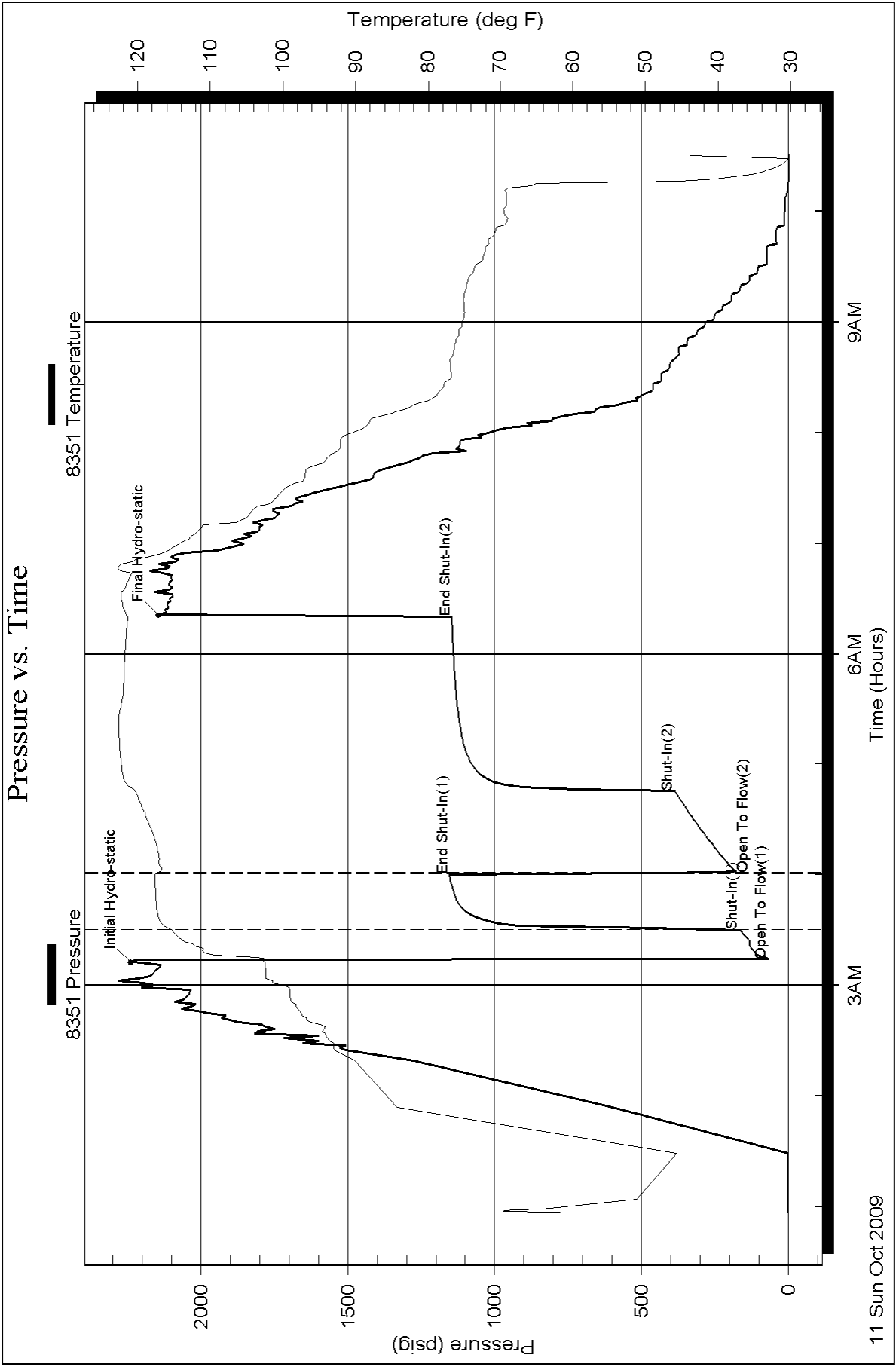
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2239.35	102.54	Initial Hydro-static
2	67.91	102.26	Open To Flow (1)
18	166.51	115.23	Shut-In(1)
48	1153.58	117.58	End Shut-In(1)
49	185.57	117.12	Open To Flow (2)
93	386.20	120.31	Shut-In(2)
188	1144.01	121.38	End Shut-In(2)
189	2144.90	121.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
246.00	GWSOCM 20%G 1%W 1%O 78%M	2.32
183.00	GOCM 30%G 20%O 50%M	2.57
550.00	GO 35%G 65%O	7.72
0.00	1280 Feet GIP	0.00
0.00	Too small amount to get chlorides	0.00

## Gas Rates

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





24 S. Lincoln Street  
 P.O. Box 31  
 Russell, KS 67665-2906  
 Voice: (785) 483-3887  
 Fax: (785) 483-5566

# INVOICE

Invoice Number: 120117  
 Invoice Date: Sep 29, 2009  
 Page: 1

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

Federal Tax I.D.#: 20-5975804

*Well Job*

Customer ID	Well Name # or Customer P.O.	Payment Terms
Shak	<u>Ottley #5-15</u>	Net 30 Days
Job Location	Camp Location	Service Date
KS1-01	Oakley	Sep 29, 2009
		Due Date
		10/29/09

Quantity	Item	Description	Unit Price	Amount
165.00	MAT	Class A Common	15.45	2,549.25
3.00	MAT	Gel	20.80	62.40
6.00	MAT	Chloride	58.20	349.20
174.00	SER	Handling	2.40	417.60
20.00	SER	Mileage 174 sx @ .10 per sk per mi	17.40	348.00
1.00	SER	Surface	1,018.00	1,018.00
20.00	SER	Pump Truck Mileage	7.00	140.00

Subtotal	4,884.45
Sales Tax	186.53
Total Invoice Amount	5,070.98
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,070.98</b>

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

**\$ 976.89**

ONLY IF PAID ON OR BEFORE

**Oct 29, 2009**

# ALLIED CEMENTING CO., LLC. 04258

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
OAKLEY

DATE	9-29-09	SEC.	15	TWP.	145	RANGE	32W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE	OAKLEY	WELL #	5-15	LOCATION	OAKLEY 195- WTS D WTS				8:30 AM	9:30 AM	10:00 PM
STATE									COUNTY		STATE
									LOGAN		KS

OLD OR  NEW (Circle one)

CONTRACTOR H-A DRIG OWNER SAME

TYPE OF JOB SURFACE

HOLE SIZE 12 1/2" T.D. 228'

CASING SIZE 8 5/8" DEPTH 228'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 13 3/4

CEMENT AMOUNT ORDERED  
165 SKS COM 3 BCCC 2% 3E1

COMMON 165 SKS @ 15 45 2549 25

POZMIX \_\_\_\_\_ @ \_\_\_\_\_

GEL 3 SKS @ 20 30 62 30

CHLORIDE 6 SKS @ 58 20 349 20

ASC \_\_\_\_\_ @ \_\_\_\_\_

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

# 431 HELPER KELLY

BULK TRUCK \_\_\_\_\_

# 377 DRIVER DARRON

BULK TRUCK \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:  
CEMENT died CIRC.

HANDLING 174 SKS @ 2 30 417 60

MILEAGE 104 PEA SK 1 MILE 348 45

TOTAL 3 226 45

### SERVICE

DEPTH OF JOB 228'

PUMP TRUCK CHARGE \_\_\_\_\_ 1018

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE 20 MI @ 7 00 170

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

TOTAL 1158 00

CHARGE TO: SHAKESPEARE OIL CO.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

### PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

To Allied Cementing Co., 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) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS \_\_\_\_\_



24 S. Lincoln Street  
 P.O. Box 31  
 Russell, KS 67665-2906  
 Voice: (785) 483-3887  
 Fax: (785) 483-5566

# INVOICE

Invoice Number: 120295  
 Invoice Date: Oct 12, 2009  
 Page: 1

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

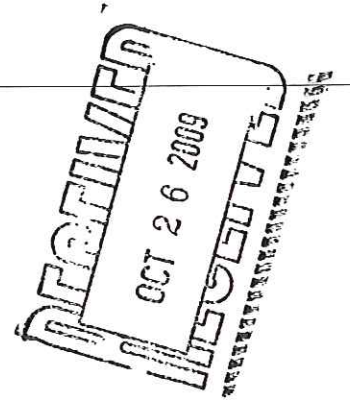
Federal Tax I.D.#: 20-5975804

*well file*

Customer ID	Well Name# or Customer P.O.	Payment Terms
Shak	Ottley #5-15	Net 30 Days
Job Location	Camp Location	Service Date
KS1-02	Oakley	Oct 12, 2009
		Due Date
		11/11/09

Quantity	Item	Description	Unit Price	Amount
4.00	MAT	Gel	20.80	83.20
230.00	MAT	ASC Class A	18.60	4,278.00
28.00	MAT	Salt	23.95	670.60
1,150.00	MAT	Gilsonite	0.89	1,023.50
162.00	MAT	CD-31	9.35	1,514.70
500.00	MAT	WFR-2	1.27	635.00
291.00	SER	Handling	2.40	698.40
20.00	SER	Mileage 291 sx @ .10 per sk per mi	29.10	582.00
1.00	SER	Production Casing	2,185.00	2,185.00
20.00	SER	Pump Truck Mileage	7.00	140.00
1.00	SER	Rotater	100.00	100.00

*INT*



Subtotal	11,910.40
Sales Tax	516.92
Total Invoice Amount	12,427.32
Payment/Credit Applied	
<b>TOTAL</b>	<b>12,427.32</b>

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

\$ 2382.05

ONLY IF PAID ON OR BEFORE

**Nov 11, 2009**



# ALLIED CEMENTING CO., LLC. 044321

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Darkley KS

DATE <u>10/21/09</u>	SEC. <u>15</u>	TWP. <u>19</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>5:30pm</u>	JOB START COUNTY <u>Logan</u>	JOB FINISH STATE <u>KS</u>
LEASE <u>04129</u>	WELL # <u>5-15</u>	LOCATION <u>Darkley</u>	<u>19S 70 Deck battery w/ side</u>				
OLD OR NEW (Circle one)			<u>W. S. E. 1/4</u>				

CONTRACTOR H-D #2 OWNER Same

TYPE OF JOB Production - Port Cement

HOLE SIZE 7 7/8 T.D. 4469

CASING SIZE 5 1/2 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL Port Mallet DEPTH 2172

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 43

CEMENT LEFT IN CSG. 43'

PERFS.

DISPLACEMENT 107 bbl

EQUIPMENT		AMOUNT ORDERED	ON LOCATION	JOB START COUNTY	JOB FINISH STATE
PUMP TRUCK	CEMENTER <u>Alan</u>				
#	<u>422</u> HELPER <u>Wayne</u>				
BULK TRUCK	DRIVER <u>Darren</u>				
#	<u>347</u>				
BULK TRUCK	DRIVER				
#					
COMMON	@				
POZMIX	@				
GEL	@	<u>4 SKS</u>		<u>20<sup>00</sup></u>	<u>83<sup>20</sup></u>
CHLORIDE	@				
ASC	@	<u>230 SK1</u>		<u>18<sup>60</sup></u>	<u>4208<sup>00</sup></u>
Salt	@	<u>2844</u>		<u>23<sup>95</sup></u>	<u>670<sup>60</sup></u>
Gilsonite	@	<u>115016</u>		<u>89</u>	<u>1023<sup>50</sup></u>
CD 31	@	<u>162 lb</u>		<u>9<sup>35</sup></u>	<u>1514<sup>20</sup></u>
WFR II	@	<u>500 gal</u>		<u>1<sup>27</sup></u>	<u>635<sup>00</sup></u>
HANDLING	@	<u>291</u>		<u>2.40</u>	<u>698.40</u>
MILEAGE	@	<u>291 x 1.0 x 2.0</u>			<u>582.00</u>
				TOTAL	<u>9485.40</u>

REMARKS:

5 bbl to 0 MX 500 gal WFR II 8-25-09

MX 30 SK. Best hole, MIX 200 SK. Down

5 1/2" wash truck & 4000 Dispense Plug To

catch down or 800 PSI GPT level Plug @

1500 PSI. Joint held.

Thompson

Alan Logan, Down

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_ 2185.00

EXTRA FOOTAGE \_\_\_\_\_

MILEAGE 20 miles @ 7.00 = 140.00

MANIFOLD Noted @ 1.00 = 100.00

TOTAL 2425.00

CHARGE TO: Shullespeare

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS \_\_\_\_\_

To Allied Cementing Co., 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 \_\_\_\_\_

SIGNATURE [Signature]



24 S. Lincoln Street  
 P.O. Box 31  
 Russell, KS 67665-2906  
 Voice: (785) 483-3887  
 Fax: (785) 483-5566

# INVOICE

Invoice Number: 120359  
 Invoice Date: Oct 19, 2009  
 Page: 1

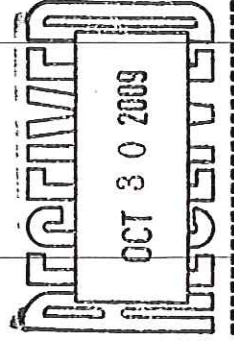
**Bill To:**  
 Shakespere Oil Co., Inc.  
 202 West Main St.  
 Salem, IL 62881

Federal Tax I.D.#: 20-5975804

INT *file copy*

Customer ID	Well Name# or Customer P.O.	Payment Terms
Shak	Ottley #5-15	10% 25, Net 30 Days
Job Location	Camp Location	Service Date
KS1-04	Oakley	Oct 19, 2009
		Due Date
		11/18/09

Quantity	Item	Description	Unit Price	Amount
195.00	MAT	Class A Common	15.45	3,012.75
105.00	MAT	Pozmix	8.00	840.00
21.00	MAT	Gel	20.80	436.80
75.00	MAT	Flo Seal	2.50	187.50
6.00	MAT	Cottonseed Hulls	31.85	191.10
519.00	SER	Handling	2.40	1,245.60
20.00	SER	Mileage 519 sx @.10 per sk per mi	51.90	1,038.00
1.00	SER	Port Collar	1,185.00	1,185.00
20.00	SER	Pump truck Mileage	7.00	140.00



Subtotal	8,276.75
Sales Tax	294.09
Total Invoice Amount	8,570.84
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,570.84</b>

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

\$ 1655.35

ONLY IF PAID ON OR BEFORE  
 Nov 13, 2009

# ALLIED CEMENTING CO., LLC. 044328

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Dadley, Ky

DATE <u>10/19/09</u>	SEC. <u>15</u>	TWP. <u>16</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>4-000 p.m.</u>	JOB START <u>5:00 p.m.</u>	JOB FINISH <u>6:00 p.m.</u>
LEASE <u>0.1 Ha</u>	WELL # <u>5-15</u>	LOCATION <u>Dadley 18 1/2 S To Trunk bottom</u>		COUNTY <u>Logan</u>	STATE <u>Ky</u>		
OLD OR <u>NEW</u> (Circle one)	w/side <u>clippers</u> into						

CONTRACTOR Wild Cat Well Services OWNER Same

TYPE OF JOB port water

HOLE SIZE T.D.

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL Pack Tool DEPTH 2169

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT 7.5

**EQUIPMENT**

PUMP TRUCK CEMENTER Alan

# 402 HELPER Wayne

BULK TRUCK

# 306 DRIVER Doccen

BULK TRUCK

#

**REMARKS:**

Test tool to 1000 PSI Held open  
Tool Take bit 2000 PSI Seal  
300 SKS 65/115 with F10 seal w/ 1000 PSI  
Displace cement w/ 7.5 GAL H<sub>2</sub>O  
Close tool test to 1000 PSI. Held open  
with Reverse Clean. Cement did Circulate  
Franklin  
Alan, Wayne, Doccen

CHARGE TO: Shulkspear

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., 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 T.C. LARSON

SIGNATURE T.C. Larson

**CEMENT**

AMOUNT ORDERED 475 SKS 6.5/35 86.921

1/4 10 F10 Seal

50016 HULLS used 300 SKS

COMMON 195 @ 15.45 3012.75

POZMIX 105 @ 8.00 840.00

GEL 21 @ 20.00 436.80

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

F10 Seal 75 @ 2.50 187.50

Hulls 30016 @ 31.85 191.10

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

HANDLING 519 SKS @ 2.40 1245.60

MILEAGE 100 SK/mile @ \_\_\_\_\_ 1000.00

TOTAL 6954.75

**SERVICE**

DEPTH OF JOB 2169

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_

MILEAGE 20 @ 7.00 140.00

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

TOTAL 1325.00

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_ \_\_\_\_\_

TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS \_\_\_\_\_

Well File Copy

# RICHARD S. (Steve) DAVIS JR.

## Petroleum Geologist

212 N. Market

Wichita, Kansas 67202

Phone (316) 267-9115

### GEOLOGIST'S REPORT

#### DRILLING TIME AND SAMPLE LOG

COMPANY SHAKESPEARE OIL COMPANY, INC.  
 LEASE OTTLEY #5-15  
 FIELD CHALK BUTTES  
 LOCATION 1279' ENCL E 436' ECL  
 SEC 15 TWSP 14S RGE 32W  
 COUNTY LOGAN STATE KANSAS

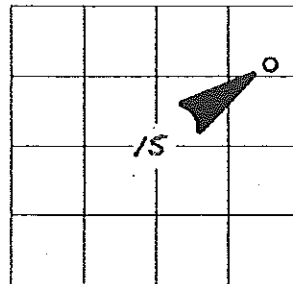
ELEVATIONS  
 KB 2752  
 KB 2753 WAS  
 DF USED, SAMPLE TOPS  
 GL 2742  
 Measurements Are All  
 From KB 2752

CONTRACTOR HD DRILLING, LLC RIG #2  
 SPUD 9-29-2009 COMP 10-12-2009  
 KB 2753 RTD 4470(-1717) KB 2752 LTD 4466(-1714)  
 MUD UP 3460 TYPE MUD CHEMICAL

CASING  
 SURFACE 8 5/8" @ 228'  
 PRODUCTION 5 1/2"  
 ELECTRICAL SURVEYS  
 HALLIBURTON:  
 FULL SUITE

SAMPLES SAVED FROM 3500 TO RTD  
 DRILLING TIME KEPT FROM 3500 TO RTD  
 SAMPLES EXAMINED FROM 3500 TO RTD  
 GEOLOGICAL SUPERVISION FROM 3500 TO RTD  
 GEOLOGIST ON WELL STEVE DAVIS

FORMATION TOPS	LOG	SAMPLES
BLANNEYDRITE	2224 - 4528	2227
HEEBNER	3715 - 963	3718
LANSING	3751 - 999	3755
MUNCIE CREEK	3912 - 1160	3914
STARK	4002 - 1250	4004
B.K.C.	4076 - 1324	4076
PAWNEE	4204 - 1452	4207
CHEROKEE SH	4284 - 1532	4286
JOHNSON ZONE	4326 - 1574	4327
MISSISSIPPI	4388 - 1636	4391



API# 15-109-20861

BIT RECORD					
NO	SIZE	MAKE	DEPTH OUT	FEET	HOURS
1	12 1/4	HTC	228	228	2
2	7 7/8	HTC	1527	1799	9 3/4
3	7 7/8	HTC	3001		7 1/2

DAILY PENETRATION			
DATE	TIME	DEPTH	REMARKS
9-29	SPUD		
9-30	228	10-11	4390
10-1	12:00	11:00	11470

DAILY PENETRATION			BIT RECORD					
NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS		
9-29	speed							
9-30	228	HZ	RT	228	228	2		
10-1	1725	HTC	GT1	1527	1299	9 3/4		
10-2	2840	HTC	GX20C	2881	1354	24 1/4		
10-3	3240	HZ	QX20	3574	693	29 1/4		
10-4	3574	HTC	GX20C	3998	424	27		
10-5	3840	HZ	QX20	4370	372	37 1/2		
10-6	3940							
10-7	3973							
10-8	4065							
10-9	4278							
10-10	4355							

### LEGEND

	Anhydrite		Salt		Sandstone		Shale		Carb sh		Limestone		Ool.Lime		Chert		Dolomite
--	-----------	--	------	--	-----------	--	-------	--	---------	--	-----------	--	----------	--	-------	--	----------

### SCALE " = 100'

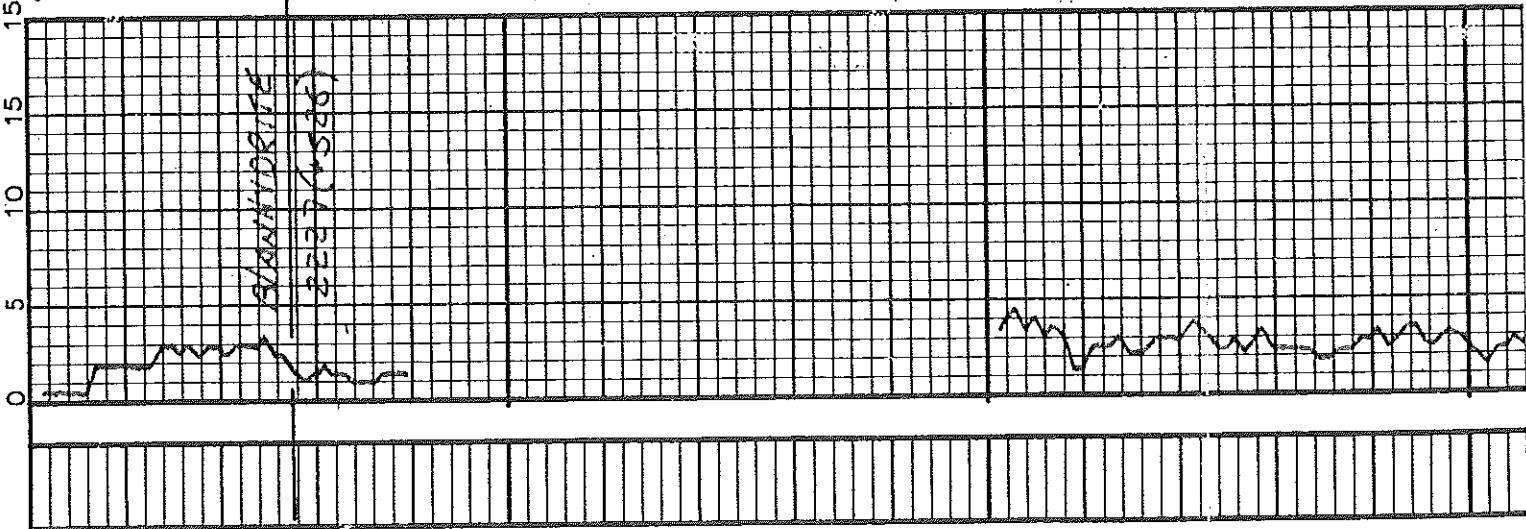
**DRILLING TIME**

In Minutes

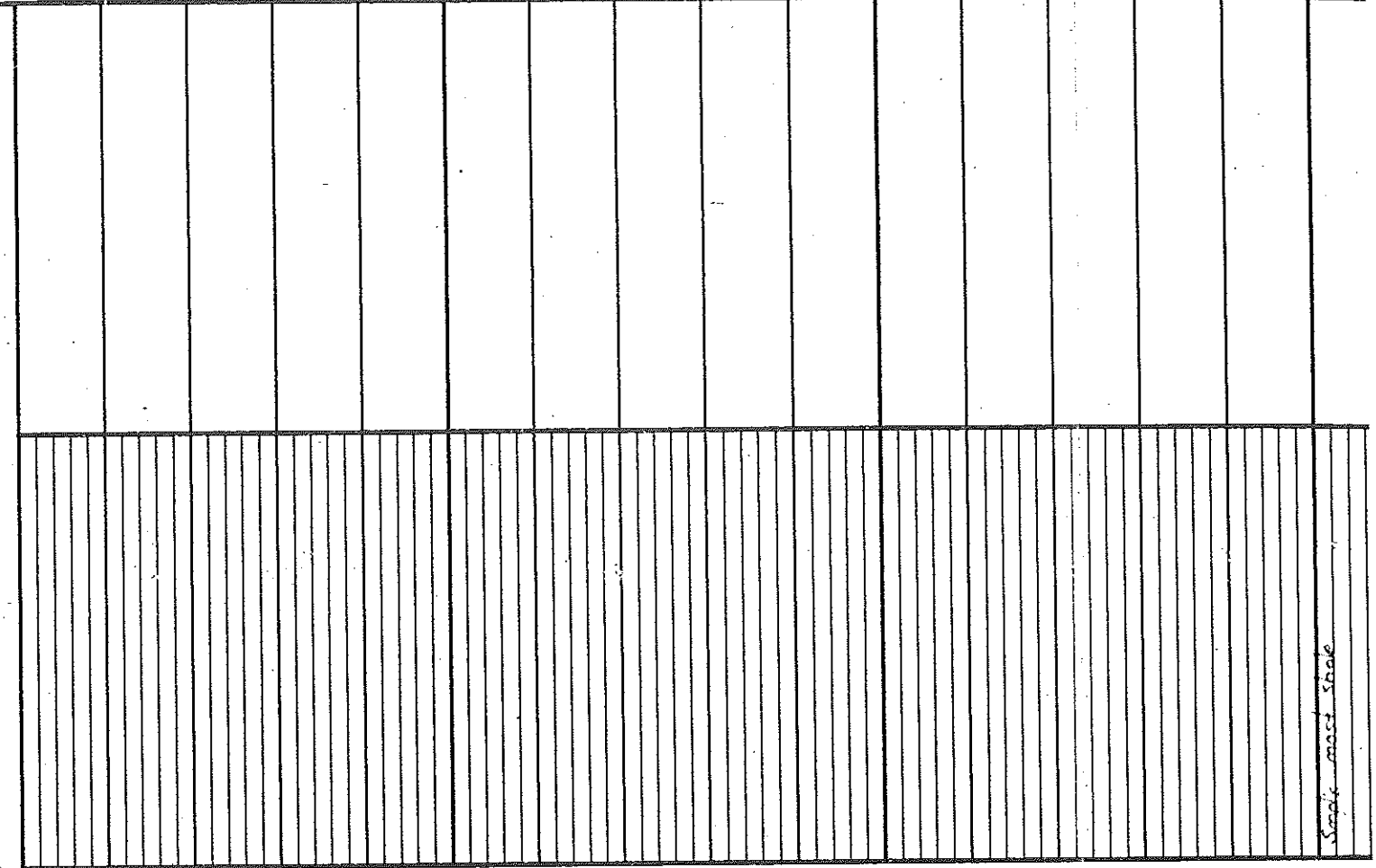
DEPTH

**SAMPLE DESCRIPTION**

**REMARKS**



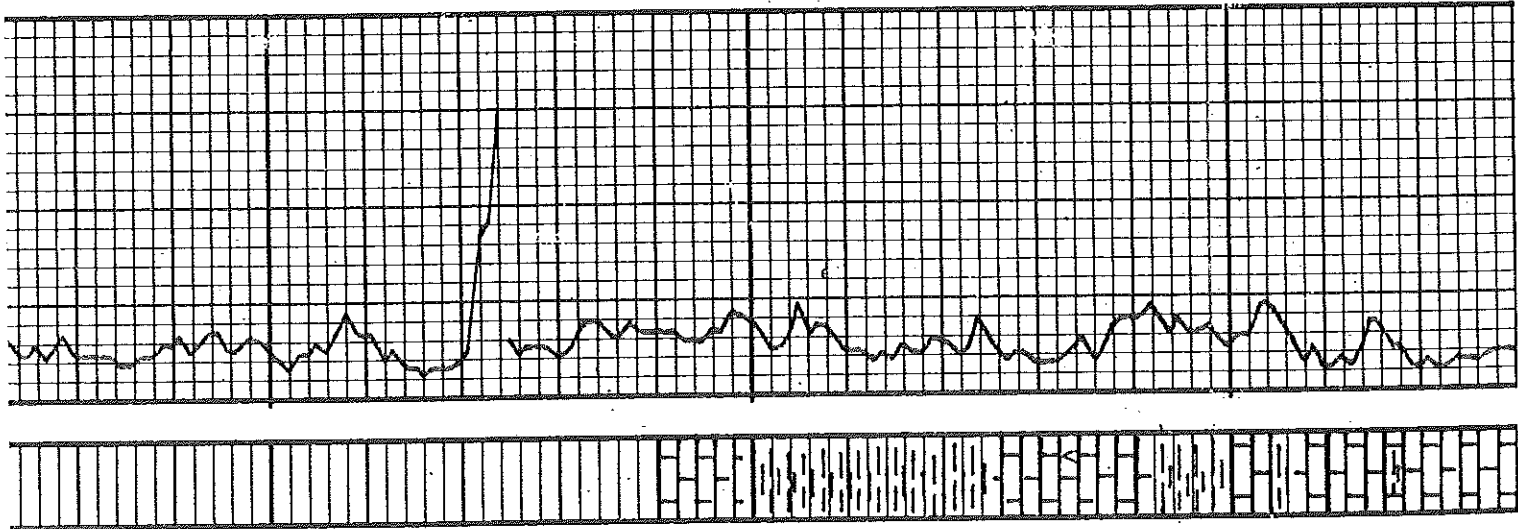
15 2200  
50  
3500  
50



50

3600

50



Shale most shale	
Trip Saps, most red shale	
LS brown-gray, thin silty, less chky blk. and faint shale	
Shale gray, green & rust silty	
AA	
LS gray-top thin silty, less chky w/blk & dk gray shale	
shale gray black	
LS tan, brown thin, less ool dense w/blk & shale gray, black, green rust	
LS gray, brown thin less ool	
LS tan, gray thin less ool black & blk	

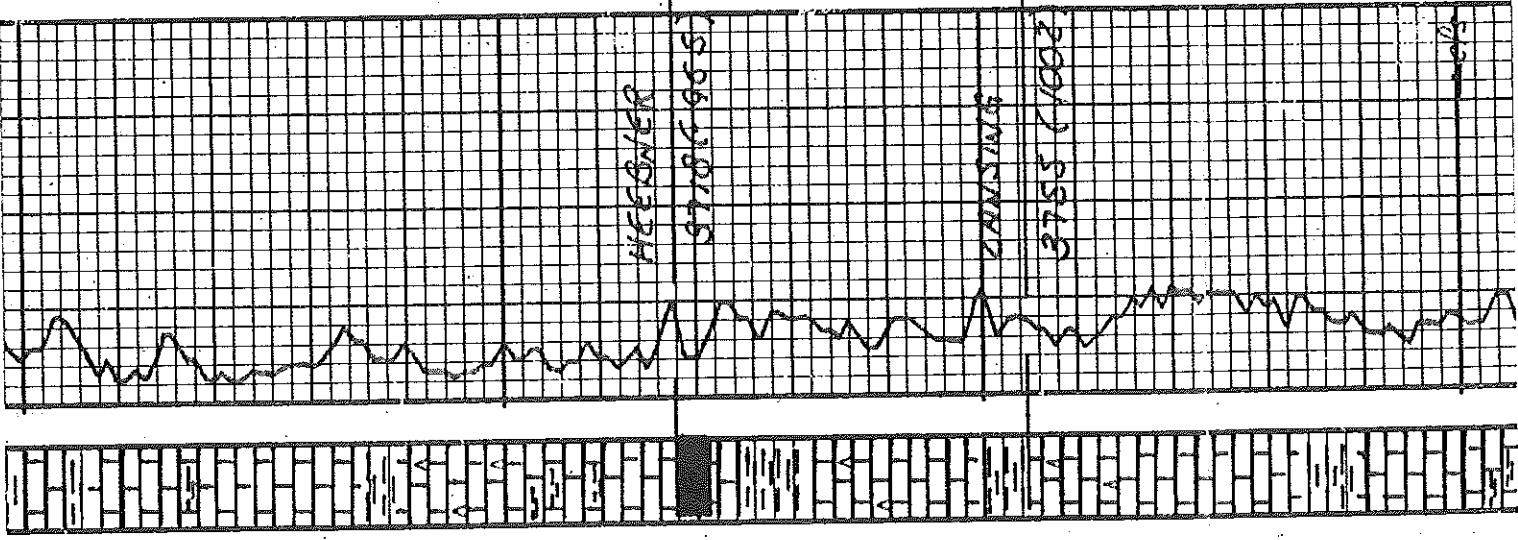
Bit Trip @ 3574  
 Strap . 22 short  
 Vis 72 Wt 87 Filco  
 Chl. 2200 PH 115 COM 2#  
 (10-4-09)

50

3700

50

3800



LS. Tan. pipew. lila. less. ool. dense  
 sh. & shale gray, black, green  
 m.s.

LS. gray. brown. lila. less. ool. g.

LS. gray. gray. lila. less. ool.  
 m.s.

shale gray. black. green

LS. ool. tan. lila. less. ool. IP  
 chky. m.s. & ool. tan. lila.

LS. gray. brown. lila. sill. less  
 ool. sh.

shale black. ool.

Most shale gray. black. green  
 m.s.

LS. gray. ool. tan. lila. less. ool. IP  
 chky. m.s. & ool. tan. lila.  
 m.s.

LS. tan. gray. white. dense. sh.

Shale gray, green, black

LS. ool. tan. lila. less. ool. IP  
 chky. m.s. & ool. tan. lila.  
 m.s. & ool. tan. lila.

LS. brown. lila. less. ool. sh.  
 ool. IP. dense. sh.

LS. sh. & shale gray. green

LS. tan. ool. lila. ool. pipew. sh.  
 m.s. & ool. tan. lila. sh.  
 ool. sh. & ool.

LS. brown. lila. less. ool. IP

Survey @ 3840, 3/4°

DST #1 3816 - 3840  
30 - 30 - 45 - 90

BCOW: 1/2"

I.F. 5 1/2"

I.S.I. weak surface return  
F.F. 6"

F.S.I. weak surface return

RECOVERY:  
40% O.S.W.M. (40% W 80% M)



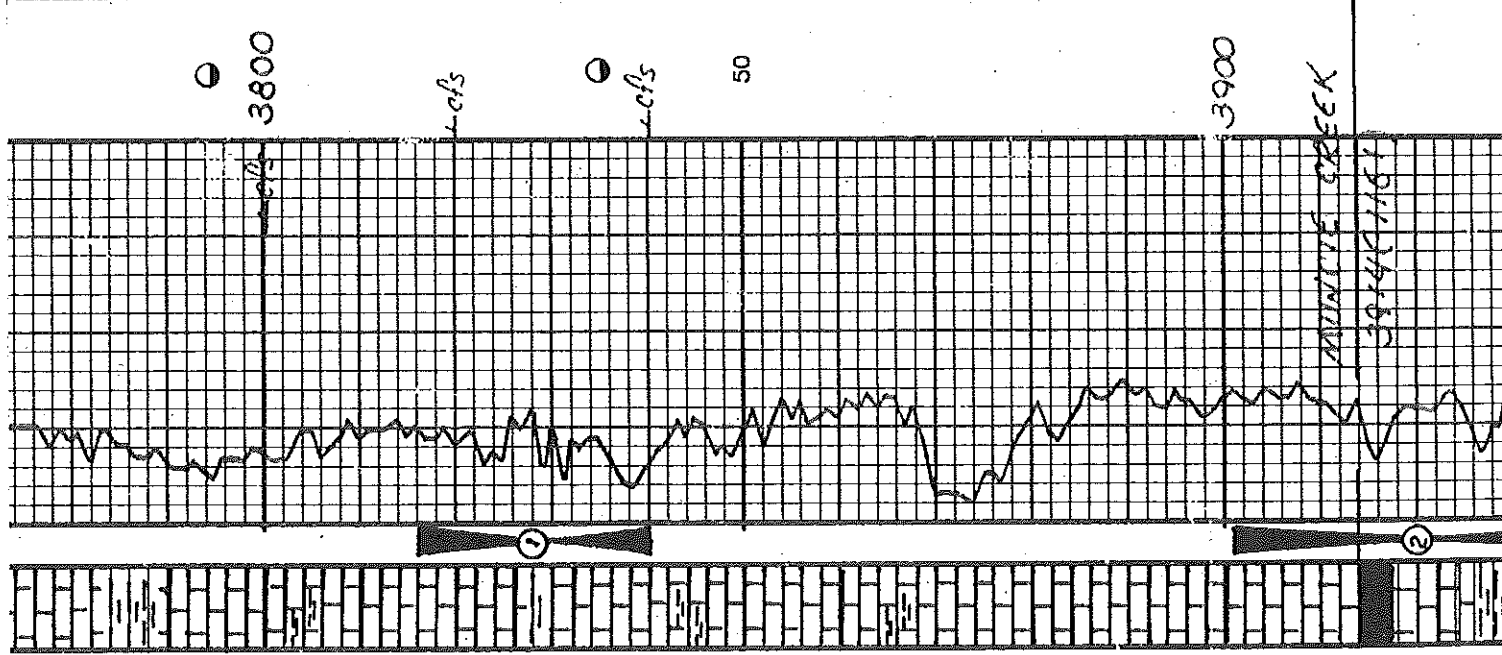
DST #1 3816 - 3840  
 30 - 30 - 45 - 90  
 BLOW:  
 I.F. 5 1/2"  
 I.S.I. weak surface return  
 F.F. 6"  
 F.S.I. weak surface return  
 RECOVERY:  
 40' O.S.W.M. (40% W 60% M)  
 62' O.S.M.W. (70% W 30% M)  
 124' M.W. (85% W 15% M)  
 225' TOTAL FLUID (CAL. 48,000)  
 I.H.P. 1876#  
 I.F.P. 18.77#  
 I.S.I.P. 1.184#  
 F.F.P. 80.116#  
 F.S.I.P. 1.148#  
 F.H.P. 1,830# B.H.T. 113°F

VIS. 50 WT. 9.0. F.I. 6.8  
 CHL. 3,000 PH 11.0 CCM/LS#  
 (10-5-09)

DST #2 3901 - 3940  
 30 - 30 - 45 - 60  
 BLOW:  
 I.F. 9"  
 I.S.I. No return  
 F.F. 11"  
 F.S.I. weak surface return  
 RECOVERY:  
 30' O.S.W.M. (30% W 70% M)  
 121' O.S.M.W. (55% W 45% M)  
 124' M.W. (90% W 10% M)  
 275' TOTAL FLUID (CAL. 52,000)  
 I.H.P. 1938#  
 I.F.P. 20.108#  
 I.S.I.P. 1253#  
 F.F.P. 111.175#  
 F.S.I.P. 1252#  
 F.H.P. 1880# B.H.T. 114°F

VIS. 53 WT. 9.1 F.I. 6.4  
 CHL. 3,300 PH 11.5 CCM/LS#  
 (10-6-09)

cal IP dense sup  
 LS sh + shale gray-green  
 LS tan-cm fine cal IP  
 P. in s.s. s.s. s.s. s.s. s.s. s.s.  
 dull blue, lit. color  
 LS gray-cm fine cal IP  
 ch. s.s. s.s. s.s. s.s. s.s. s.s.  
 dull gray-blue s.s.  
 LS cm. off white mica sh  
 dense sup  
 LS tan-gray v. fine cal. cal IP  
 mud sh. s.s.  
 LS tan-cm v. fine s.s. cal IP  
 sh. ch. P. in s.s. s.s. s.s. s.s.  
 s.s. s.s. s.s. s.s. s.s. s.s.  
 s.s. s.s. s.s. s.s. s.s. s.s.  
 LS tan-cm fine s.s. cal IP  
 ch. sup. + shale gray-green  
 LS tan-cm fine s.s. cal IP  
 dense sup  
 LS cm. white fine cal IP  
 P. in s.s. s.s. s.s. s.s. s.s.  
 LS tan-cm v. fine mica sh  
 sh. dense sup  
 LS gray-tan v. fine mica sh  
 dense sup  
 Shale black carb  
 LS gray-tan fine s.s. P. in s.s. s.s.  
 s.s. s.s. s.s. s.s. s.s. s.s.  
 + shale gray, black s. green



I.H.P. 1900#  
 I.F.P. 20-108#  
 I.S.I.P. 1253#  
 F.F.P. 111-175#  
 F.S.I.P. 1252#  
 F.H.P. 1880# B.H.T. 114°F

V.S. 53 Wt 91 Fil. 6.4  
 CHL. 3.300 PH 11.5 CCM 1#  
 (10.6-09)

DST #3 3942-3973  
 30-30-45-90  
 BLOW:  
 I.F. B.O.B. 22 min.  
 I.S.I. 1/2" return  
 F.F. B.O.B. 30 min.  
 F.S.I. 3/2" return  
 RECOVERY: 205' G.I.P.  
 45' G.E.M.W.C.O.  
 (5% 9 50% 0 35% W 10% M)  
 61' O.S.M.W.  
 (50% W 50% M)  
 307' M.W.  
 (90% W 10% M)

413' TOTAL FLUID (CHL. 50,000)  
 I.H.P. 1987#  
 I.F.P. 25-123#  
 I.S.I.P. 1224#  
 F.F.P. 127-200#  
 F.S.I.P. 1244#  
 F.H.P. 1931# B.H.T. 116°F

V.S. 50 Wt 9.0 Fil. 6.4  
 CHL. 5.600 PH 11.5 CCM 1#  
 (10.7-09)

DST #4 3972-3998  
 30-30-30-30  
 I.F. 3"  
 I.S.I. No return  
 F.F. 2"  
 F.S.I. weak surface return  
 RECOVERY:  
 62' S.O.C.M. (2% 0 98% M)  
 62' O.S.W.M. (27% W 73% M)

124' TOTAL FLUID (CHL. 40,000)  
 I.H.P. 2002#

SS gray-fan v.l. mica v.l. dense  
 sh.

Shale black carb

SS gray-fan v.l. sh. silty, fossiliferous, dense  
 S.S.E. solid stn. spl. silty, ht. odor  
 Shale gray, black, green

Data fan-cm silty, fossiliferous, no  
 F.P. 1252, P. 201-108, F.S.E.  
 Solid-unit stn. spl. silty, ht. odor

SS gray-brown v.l. mica v.l. dense  
 few fossiliferous

SS sh. Shale gray, black, green, f.  
 brown

SS fan-gray-fan fossiliferous, chky, IP  
 F.P. 1252, P. 201-108, F.S.E.  
 Solid-unit stn. spl. silty, ht. odor

SS brownish gray-fan v.l. silty, fossiliferous,  
 dense, sh. Shale black, gray, f.  
 green

SS fan-cm silty, fossiliferous, mobile, f.  
 P. 201-108, F.S.E.  
 Solid-unit stn. spl. silty, ht. odor  
 Fossiliferous black asph. stn. spl. silty, ht. odor

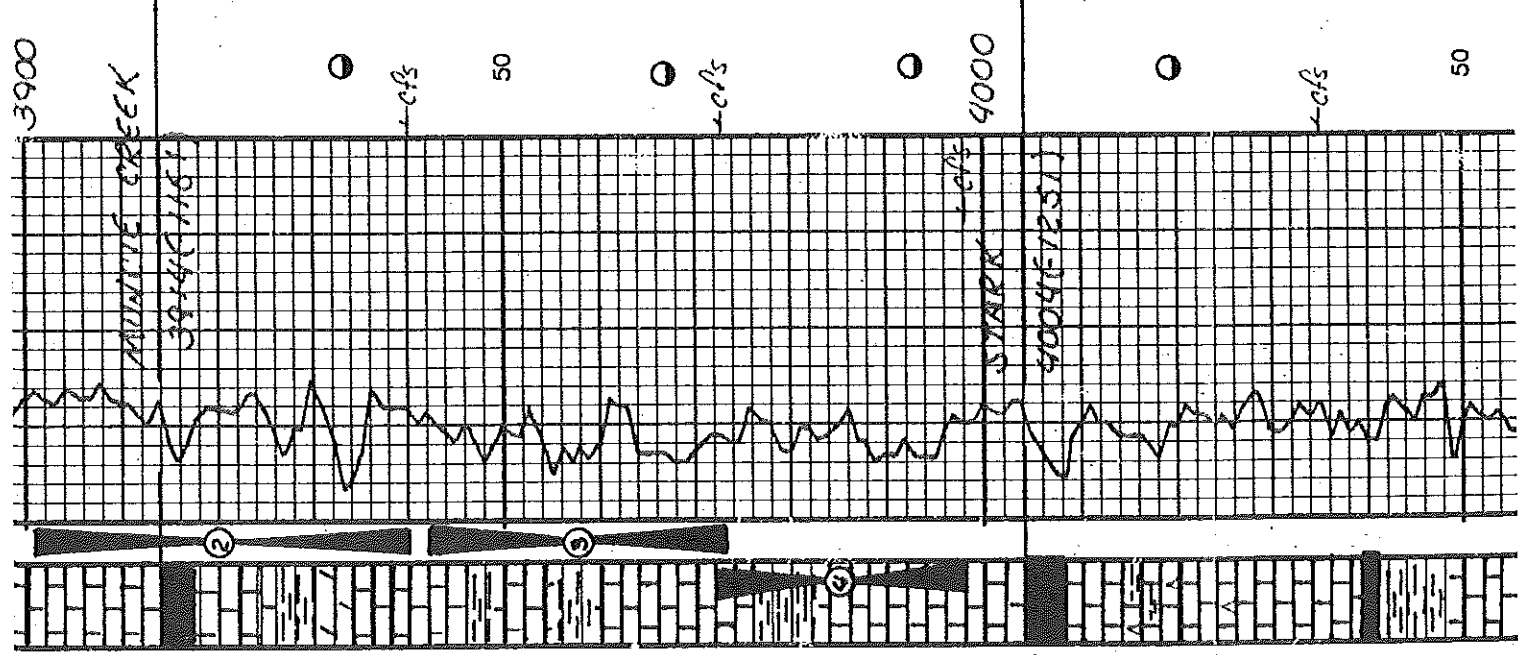
Shale black carb

SS fan-gray-fan v.l. silty, fossiliferous, IP  
 P. 201-108, V.S.S.E. solid stn.  
 spl. silty, ht. odor, strong odor

SS fan-gray-fan v.l. silty, fossiliferous, dense  
 some chky, spl.

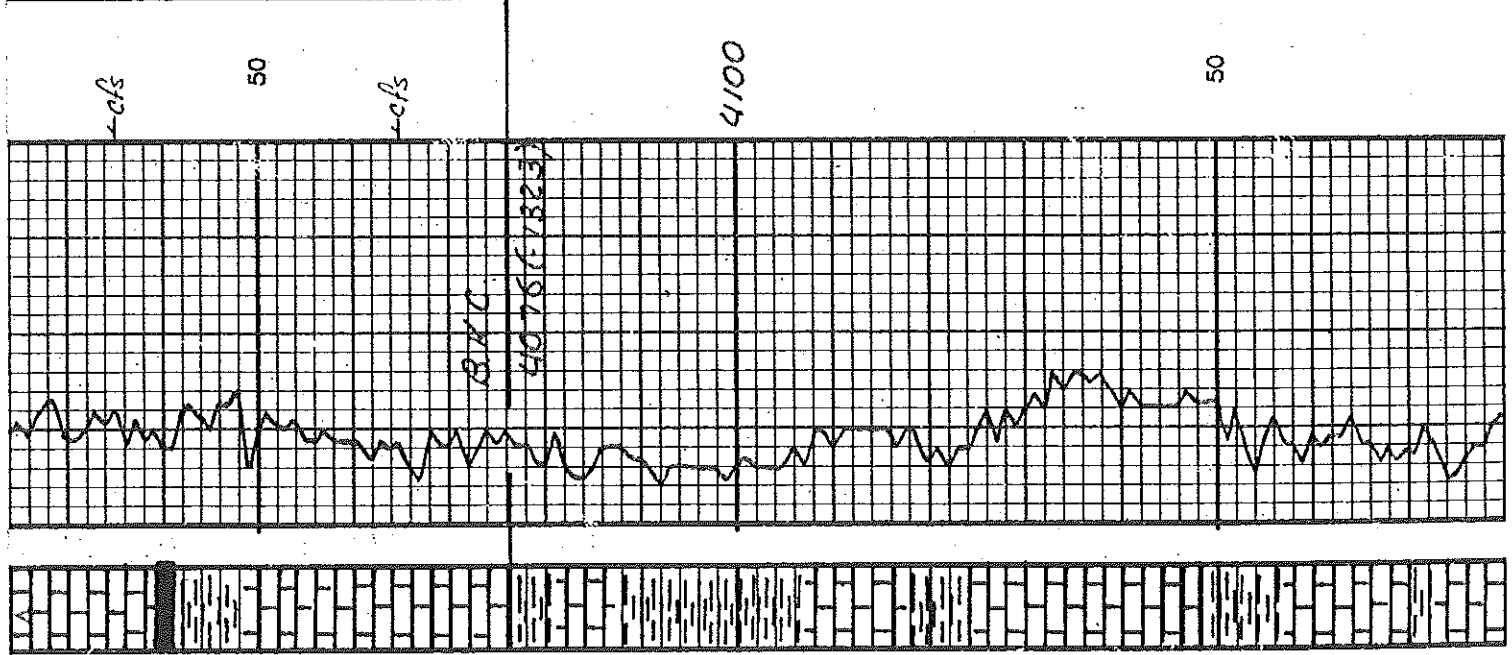
Shale black carb, chky, green, f.  
 gray

SS fan-gray v.l. silty, fossiliferous, dense



I.F. 3  
 I.S.I. No return  
 FF 2  
 F.S.I. weak surface return  
 RECOVERY:  
 62' S.O.C.M. (2% O 98% M)  
 62' O.S.W.M. (27% W 73% M)  
 124' TOTAL FLUID (CHI. 40,000)  
 I.H.P. 2002#  
 I.F.P. 20-SI#  
 I.S.I.P. 1016#  
 F.F.P. 58-77#  
 F.S.I.P. 992#  
 F.H.P. 1936# BHT 109°F

LS tan-gray f. silty silty f. ss coarse  
 silty mud  
 Shale black carb. rust. green  
 gray  
 LS tan-gray white silty f. ss mud  
 dense  
 LS tan-gray white silty f. ss mud  
 dense  
 LS tan-gray f. silty silty f. ss  
 dense mud  
 Shale gray black green & rust  
 LS gray white arg  
 Most shale rust, gray & green  
 LS tan-off white f. silty silty  
 f. ss some chky mud  
 Shale gray green rust & black  
 LS tan-gray white silty f. ss  
 chky f. ss  
 LS tan-gray white silty f. ss mud  
 dense & shale rust, black & gray  
 shale black - gray & green  
 LS tan-off white f. silty f. ss mud  
 chky f. ss  
 LS red & shale gray black green &  
 rust



Vis. SS WT 92 Fil 68  
 Chi. 5,300 PH 115 CCM 1#  
 (10-8-09)

	shale black - gray & green
	CS con - off white f. to f. ss -ool chky P. 2944 45EA
	CS. rd + shale gray - black - green & rust
	CS gray - tan - vitula few foss frag and dense
	CS gray - tan f. vitula foss -ool IP MIP
	shale black sub carb
	CS con - off white f. vitula rd -ool IP some chky and + ch. white - ogy
	CS gray - tan vitula silty f. ss -ool dense and + CS brown mica silta & ch. brown - gray
	shale black carb
	CS tan - brown f. to ool -ool IP P. 2944 f. P. 2944 f. S. 2944 and off silty -ool blue, brown & ch. brown + white ogy
	shale black carb
	CS tan - gray f. to chky IP V.P. 2944 - S.S. 2944 - ool -ool MIP - off odor + ch. gray + brown silty base
	CS tan - gray vitula few foss frag and dense
	shale black carb
	CS tan - gray f. to f. ss -ool chky P. 2944 v. S.S. 2944 silty sta & blue bit odor + ch. shale green - gray rust & black

DST #5 4226 - 4278  
30 - 30 - 80 - 90

BLOW:  
I.F. 3 1/2"

15.1 weak surface return  
F.F. 4"

F.S.L. 1/2" return  
RECOVERY:

20' 0" W.C.M.  
(7% 0 13% W 80% M)  
124' 5.0' W.C.M.  
(1% 0 9% W 90% M)

144' TOTAL FLUID  
(C.M. 29,000 35 API)

I.H.P. 2169 #

I.F.P. 29-56 #

A.S.I.P. 931 #

F.F.P. 89-98 #

F.S.I.P. 975 #

F.H.P. 2142 # BHT 112°F

VIS. 51 Wt. 9.3 Fil. 7.2  
CHL. 5000 PA 110 CCM 1#  
(10-9-09)

4200

50 - cfs

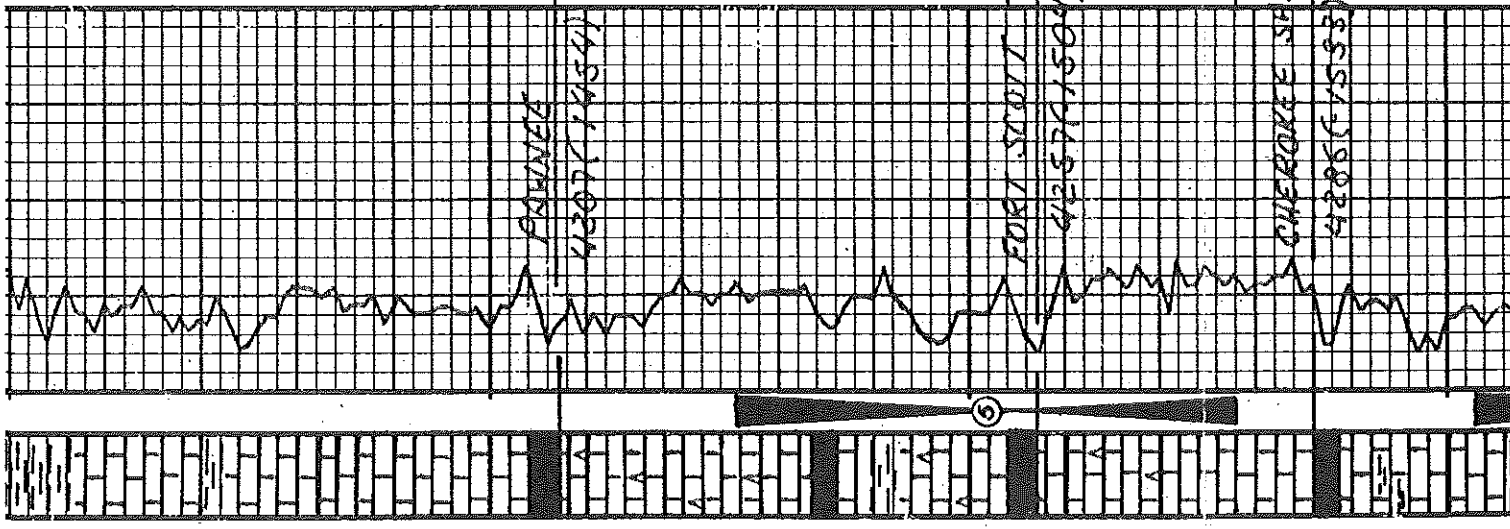
50 - cfs

4300

PARMEX  
42077 (4254)

FORT STOTT  
42577 (4504)

CHEEROCKE SF  
42086 (4553)



F.S.I.P. 975#  
 F.H.P. 2142# BHT 112°F

Vis. 51 Wt. 9.3 Fil. 7.2  
 Chl. 5.000 PH 110 CCM 1#  
 (10-9-09)

DST # 6 4303-4355  
 30 - 30 - 60 - 60  
 BLOW: 1/2"  
 I.F. 2 1/2  
 I.S.I. No return  
 FF 3  
 F.S.I. surface return died 25min.  
 RECOVERY: 90' G.I.P.  
 30' G.O.C.M.  
 75% @ 4% 91%M  
 62' G.O.C.M.  
 10% @ 1% 89%M

92' TOTAL FLUID  
 I.H.P. 2260#  
 I.F.P. 29.50#  
 I.S.I.P. 626#  
 F.F.P. 54.81#  
 F.S.I.P. 863#  
 F.H.P. 2202# BHT 114°F

Vis. 46 Wt. 9.4 Fil. 6.8  
 Chl. 4.400 PH 10.5 CCM 5#  
 (10-10-09)

DST # 7 4349 - 4390  
 15 - 30 - 45 - 90  
 BLOW:  
 I.F. 8.0.B. 4 min.  
 I.S.I. 8.0.B. 7 min.  
 F.F. 8.0.B. 3 1/2 min.  
 F.S.I. 8.0.B. 9 min.  
 RECOVERY: 1280 G.I.P.  
 550' G.O.  
 (35% @ 65% 96% API)  
 122' G.O.C.M.

LS tan-gray silty sh. w/ calc. frags  
 and dense

Shale black carb

LS tan-gray silty sh. with fine calc. frags  
 and s.s. F.S.I. sandstone. Thin  
 bedded. About shale green gray.  
 rust c. black

LS tan-gray silty sh. with fine calc.  
 and shale black gray.

LS tan-gray silty sh. with fine calc. and  
 shale black gray. Green  
 w/ some ch. white-gray

LS brown-gray silty sh. with IP  
 and s.s. F.S.I. sandstone.  
 Some bedding. Sandstone dk. sh.  
 Spotted blue-gray

LS w/ show. of IP. Tan-gray silty sh.  
 with s.s. F.S.I. sandstone. Thin  
 bedded. Some calc. frags. Subang  
 mud. Sandstone. High F.S.I.  
 spotted. Dark sh. dull spotted blue-gray

Most shale black green gray  
 with LS tan-gray silty sh.  
 with s.s. F.S.I. sandstone. Dark  
 spotted blue-gray

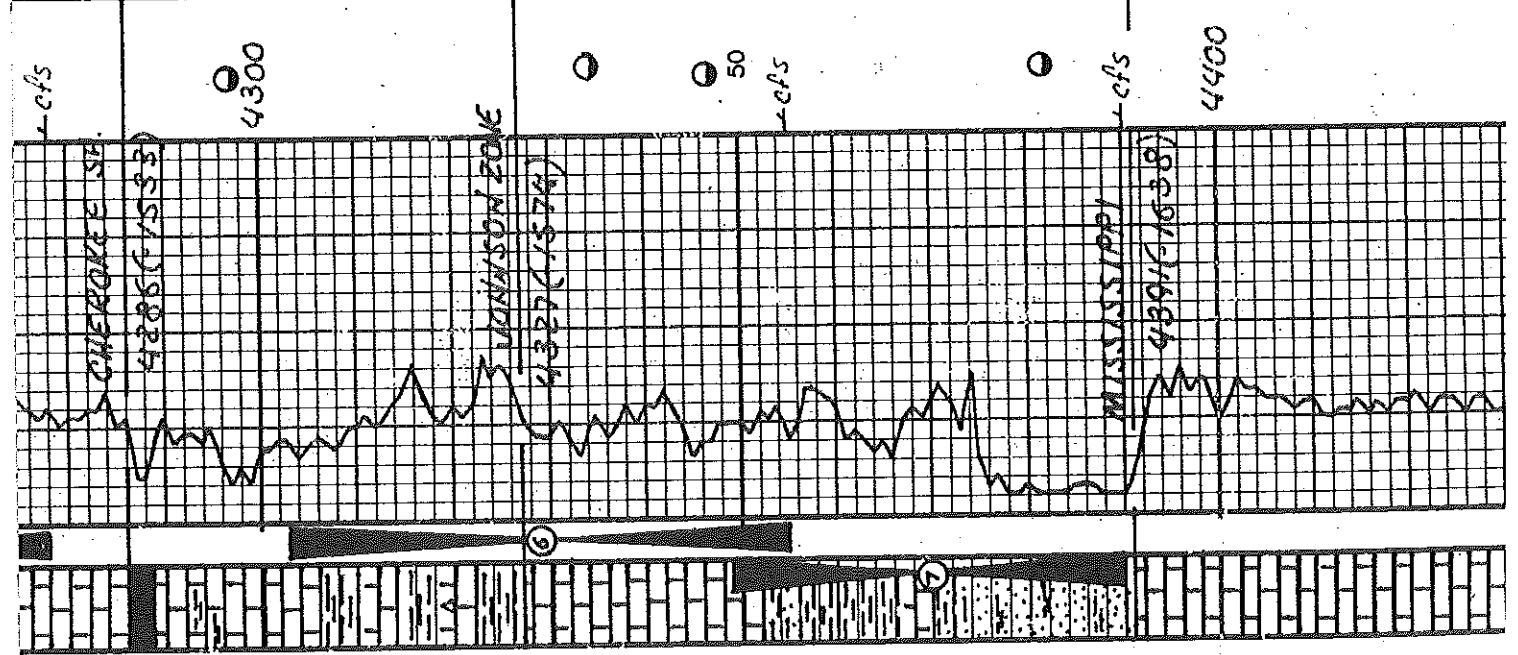
Shale green-yellow-black gray. Fine  
 and s.s. F.S.I. sandstone. Well sorted. Arg.  
 blue spotted sh.

SS brown-claytz. Fingering some calc.  
 subang. Sub. red mud. Spotted sh.  
 F.S.I. sandstone. Spotted sh.  
 Spotted blue-gray. Thin bedded. Shale dk.

LS white-gray silty sh. with IP  
 and

LS off white-tan to silty sh.

LS green-white shaly gray silty sh.  
 with (about shale slough)



CHEROKEE ST.  
 4306 (1553)

WINNISON ZONE  
 4327 (1574)

MISSISSIPPI  
 4394 (1638)

4300

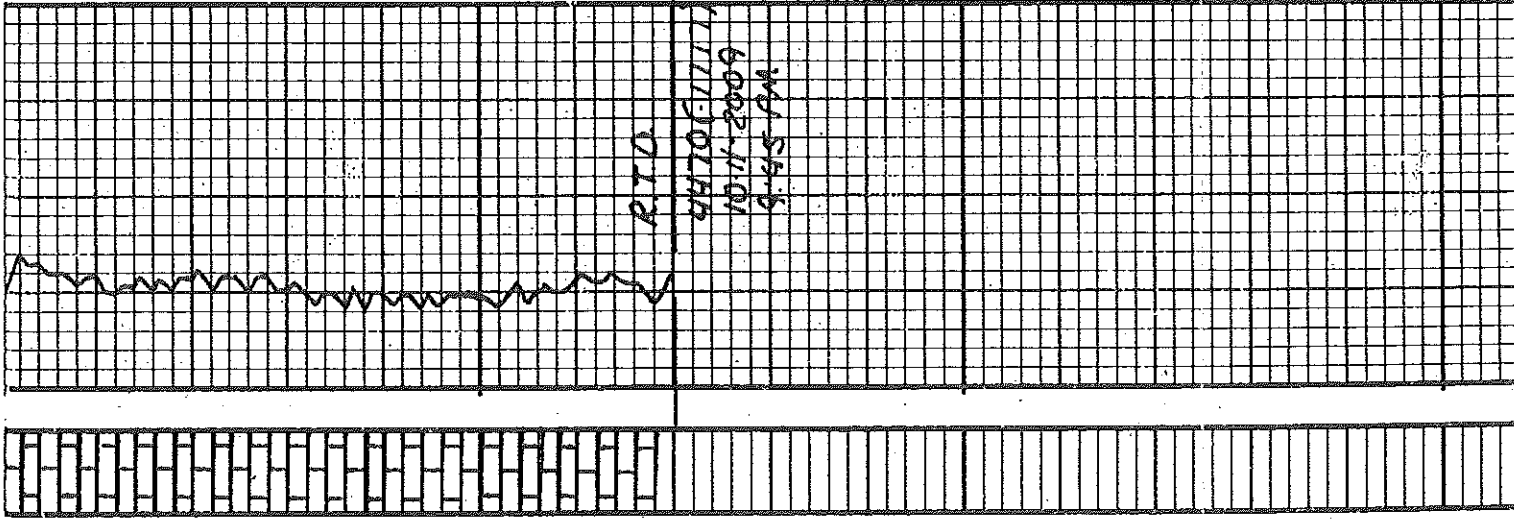
50

4400

15 - 30 - 45 - 90  
 BLOW:  
 I.F. B.O.B. 4 min.  
 I.S.I. B.O.B. 7 min.  
 F.F. B.O.B. 3 1/2 min.  
 F.S.I. B.O.B. 9 min.  
 RECOVERY: 1280 G.I.P.  
 550 G.O.  
 (35% G 65% O 36 API)  
 183 G.O.C.M.  
 (30% G 20% O 50% M)  
 246 G.W. S.O.C.M.  
 (20% G 1% O 1% W 78% M)  
 979 TOTAL FLUID  
 I.N.P. 2240#  
 I.F.P. 68-167#  
 I.S.I.P. 1154#  
 F.F.P. 186-386#  
 F.S.I.P. 1144#  
 F.H.P. 2145# B.N.T. 121°F

CS off white tan to sly mud  
 CS cream white pink sly chky IP  
 (about shale slough)  
 CS white grey tan sly chky  
 few loss plug  
 CS cream white bla sly chky IP  
 some pyr  
 CS AA ACS tan white sly dense mud  
 CS white cream bla sly sly mud  
 chky IP mud

Survey @ 4470' / °  
 50  
 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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

December 08, 2011

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

Re: ACO1  
API 15-109-20861-00-00  
Ottley 5-15  
NE/4 Sec.15-14S-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,  
Donald R. Williams



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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

December 08, 2011

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

Re: ACO-1  
API 15-109-20861-00-00  
Ottley 5-15  
NE/4 Sec.15-14S-32W  
Logan County, Kansas

Dear Donald R. Williams:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 05/02/2011 and the ACO-1 was received on December 08, 2011 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department