



**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: \_\_\_\_\_



1052924

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# ALLIED CEMENTING CO., LLC. 038717

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Great Bend

DATE <u>3-5-11</u>	SEC. <u>21</u>	TWP. <u>17S</u>	RANGE <u>2W</u>	CALLED OUT	ON LOCATION	JOB START <u>1130pm</u>	JOB FINISH <u>1200 am</u>
LEASE <u>Mighel Trust E</u>	WELL# <u>1</u>	LOCATION <u>Ness city KS west to HRD</u>			COUNTY <u>Ness</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>8 North East into</u>				

CONTRACTOR Pickwell Rig 10  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 258  
 CASING SIZE 8 7/8 DEPTH 253  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15  
 PERFS.  
 DISPLACEMENT 15.25 BBHs

OWNER Pickwell 0-111-2  
 CEMENT  
 AMOUNT ORDERED 1705X CLASS A  
3% cc + 2% GEL

EQUIPMENT  
 PUMP TRUCK CEMENTER Wayne - D  
 # 366 HELPER G-cs  
 BULK TRUCK  
 # 482 DRIVER CJ  
 BULK TRUCK  
 # DRIVER

COMMON	<u>170</u>	@	<u>16.25</u>	<u>2,762.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@	<u>58.20</u>	<u>349.20</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>179</u>	@	<u>2.25</u>	<u>402.75</u>
MILEAGE	<u>179 x 184.11</u>			<u>354.42</u>
TOTAL				<u>3,932.62</u>

REMARKS:

Pipe on Bottom Break circulation  
with Rig mud  
Hook up to cement line Run 5 BBH  
Spacer mix 1705X class A 3% cc +  
2% Gel  
Displace 15.25 BBHs fresh water  
Shut in cement did circulate  
Rig Down

SERVICE

DEPTH OF JOB	<u>253</u>			
PUMP TRUCK CHARGE				<u>1125.00</u>
EXTRA FOOTAGE		@		
MILEAGE Heavy	<u>36</u>	@	<u>7.00</u>	<u>252.00</u>
MANIFOLD		@		
Mileage light	<u>36</u>	@	<u>4.00</u>	<u>144.00</u>
TOTAL				<u>1521.00</u>

CHARGE TO: Pickwell Drilling  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment

# ALLIED CEMENTING CO., LLC. 038776

Federal Tax I.D.# 20-5975804

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

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DATE <u>3-15-11</u>	SEC. <u>21</u>	TWP. <u>17</u>	RANGE <u>25</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00 AM</u>	JOB FINISH <u>6:00 AM</u>
LEASE <u>Mishler Trust</u>		WELL# <u>1</u>		LOCATION <u>Ness city west to HRD</u>		COUNTY <u>Ness</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				<u>8 North East into</u>			

CONTRACTOR Pickwell Rig 10  
 TYPE OF JOB Rotary Plus  
 HOLE SIZE 7 3/8 T.D. 4464  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 1830  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

OWNER Pickwell  
 CEMENT  
 AMOUNT ORDERED 280 SK 60/40 + 498 Gel + 1/4 Plaseal

COMMON	<u>168</u>	@	<u>16.25</u>	<u>2730.00</u>
POZMIX	<u>112</u>	@	<u>8.50</u>	<u>952.00</u>
GEL	<u>9</u>	@	<u>21.25</u>	<u>191.25</u>
CHLORIDE	_____	@	_____	_____
ASC	_____	@	_____	_____
<u>Plaseal</u>	<u>70<sup>th</sup></u>	@	<u>2.70</u>	<u>189.00</u>
_____	_____	@	_____	_____
_____	_____	@	_____	_____
_____	_____	@	_____	_____
_____	_____	@	_____	_____
_____	_____	@	_____	_____
_____	_____	@	_____	_____
HANDLING	<u>292</u>	@	<u>2.25</u>	<u>657.00</u>
MILEAGE	<u>292 x 17 x .11</u>			<u>546.04</u>

TOTAL 5265.29

**REMARKS:**

st  
1 Plus 1830 mix 50 SK  
2nd Plus 1090 mix 80 SK  
3rd Plus 600 mix 50 SK  
4th Plus 280 mix 50 SK  
5th Plus 60 mix 20 SK  
Rat hole mix 30 SK

**SERVICE**

DEPTH OF JOB	<u>1830</u>		
PUMP TRUCK CHARGE			<u>1250.00</u>
EXTRA FOOTAGE	_____	@	_____
MILEAGE	<u>34</u>	@	<u>7.00</u> <u>238.00</u>
MANIFOLD	_____	@	_____
<u>light truck mileage</u>	<u>34</u>	@	<u>4.00</u> <u>136.00</u>
_____	_____	@	_____

TOTAL 1624.00

CHARGE TO: Pickwell  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

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

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

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

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Federal Tax I.D.# 20-5975804

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		@		
		@		
		@		
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**EQUIPMENT**

PUMP TRUCK CEMENTER Wayne  
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 BULK TRUCK  
 # 344 DRIVER Guey  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

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1 plus 1830 mix 50 SK  
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		@		

TOTAL 1624.00

**PLUG & FLOAT EQUIPMENT**

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

CHARGE TO: Pickwell  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Pickrell Drilling Company, Inc

**#1 Mishler 'E'**

100 S. Main  
Suite 505  
Wichita, KS. 67202  
ATTN: Jerry Smith

**21-17s-25w-Ness**

Job Ticket: 41722

**DST#: 1**

Test Start: 2011.03.12 @ 19:25:06

## GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:37:36

Time Test Ended: 01:03:21

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

**Interval: 4330.00 ft (KB) To 4372.00 ft (KB) (TVD)**

Reference Elevations: 2490.00 ft (KB)

Total Depth: 4372.00 ft (KB) (TVD)

2485.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8673**

**Inside**

Press @ Run Depth: 18.31 psig @ 4366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.12

End Date:

2011.03.13

Last Calib.:

2011.03.13

Start Time:

19:25:08

End Time:

01:03:21

Time On Btm:

2011.03.12 @ 21:37:21

Time Off Btm:

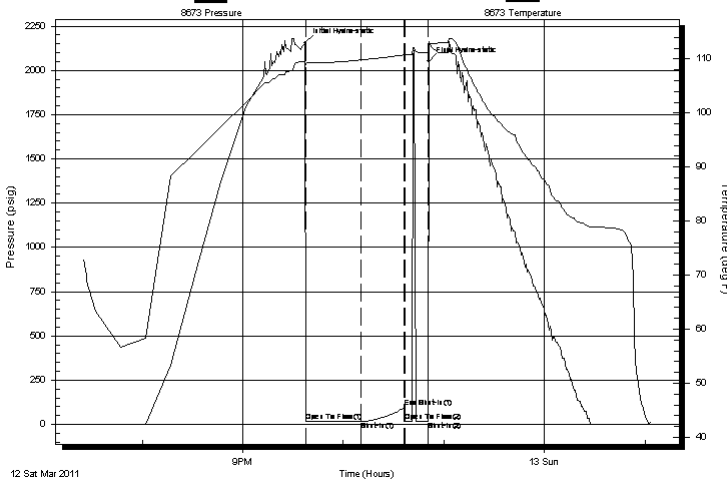
2011.03.12 @ 22:51:06

**TEST COMMENT:** IFP-w eak Blow ,Died in 10 Min.

ISI-Dead

FFP-Dead, Flush Tool, Surge, Then Died, Pull Tool

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.26	109.63	Initial Hydro-static
1	17.20	108.89	Open To Flow (1)
34	18.31	109.82	Shut-In(1)
59	97.82	110.73	End Shut-In(1)
60	18.09	110.71	Open To Flow (2)
74	19.73	111.30	Shut-In(2)
74	2052.06	112.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	Drilling Mud	0.10

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pickrell Drilling Company, Inc

**#1 Mishler 'E'**

100 S. Main  
Suite 505  
Wichita, KS. 67202  
ATTN: Jerry Smith

**21-17s-25w-Ness**

Job Ticket: 41722

**DST#: 1**

Test Start: 2011.03.12 @ 19:25:06

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	Drilling Mud	0.098

Total Length: 7.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

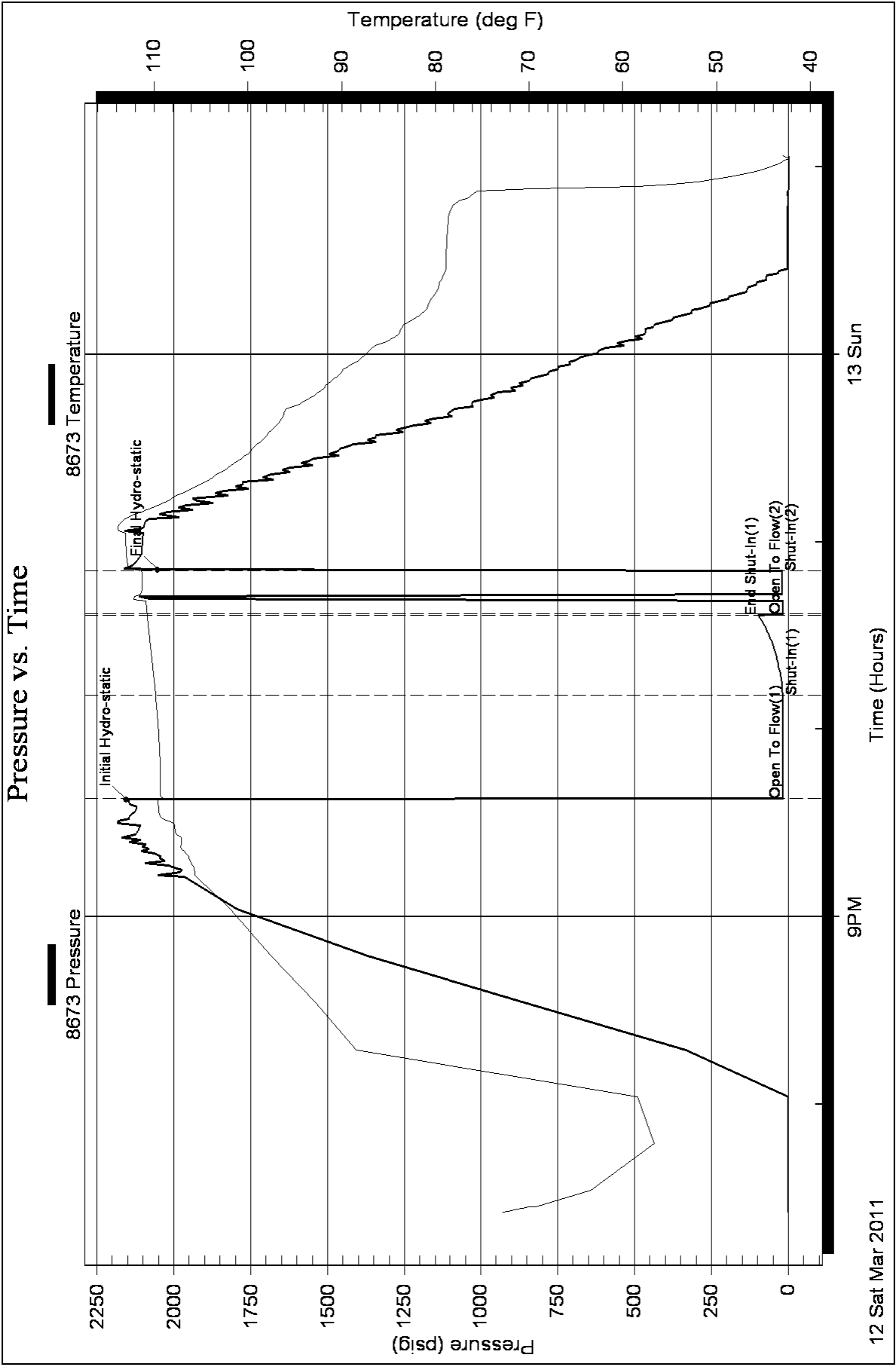
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pickrell Drilling Company, Inc

**#1 Mishler 'E'**

100 S. Main  
Suite 505  
Wichita, KS. 67202  
ATTN: Jerry Smith

**21-17s-25w-Ness**

Job Ticket: 41723

**DST#: 2**

Test Start: 2011.03.13 @ 16:12:58

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:03:28

Time Test Ended: 21:23:13

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

**Interval: 4390.00 ft (KB) To 4454.00 ft (KB) (TVD)**

Reference Elevations: 2490.00 ft (KB)

Total Depth: 4454.00 ft (KB) (TVD)

2485.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8673 Inside**

Press @ Run Depth: 36.82 psig @ 4426.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.13

End Date: 2011.03.13

Last Calib.: 2011.03.13

Start Time: 16:13:00

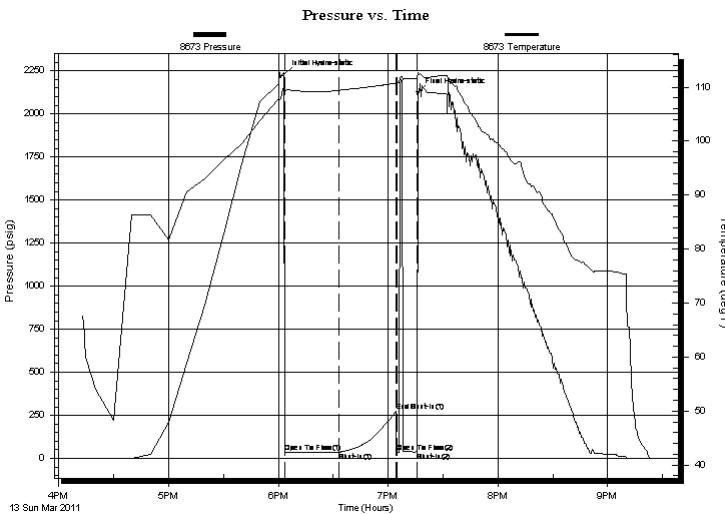
End Time: 21:23:13

Time On Btm: 2011.03.13 @ 18:03:13

Time Off Btm: 2011.03.13 @ 19:16:13

**TEST COMMENT:** IFP-Weak, Surge on Open, Dead  
ISI-Dead  
FFP-Dead, Flush Tool, Still Dead After Surge, Pull Tool

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.28	109.96	Initial Hydro-static
1	34.47	109.14	Open To Flow (1)
30	36.82	109.42	Shut-In(1)
61	271.57	110.74	End Shut-In(1)
62	36.64	110.69	Open To Flow (2)
73	37.67	111.61	Shut-In(2)
73	2124.10	112.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Free Oil	0.01
12.00	VSOCM-1%O-99%M	0.17

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pickrell Drilling Company, Inc

**#1 Mishler 'E'**

100 S. Main  
Suite 505  
Wichita, KS. 67202  
ATTN: Jerry Smith

**21-17s-25w-Ness**

Job Ticket: 41723

**DST#: 2**

Test Start: 2011.03.13 @ 16:12:58

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 9.19 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5500.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Free Oil	0.014
12.00	VSOCM-1%O-99%M	0.168

Total Length: 13.00 ft      Total Volume: 0.182 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

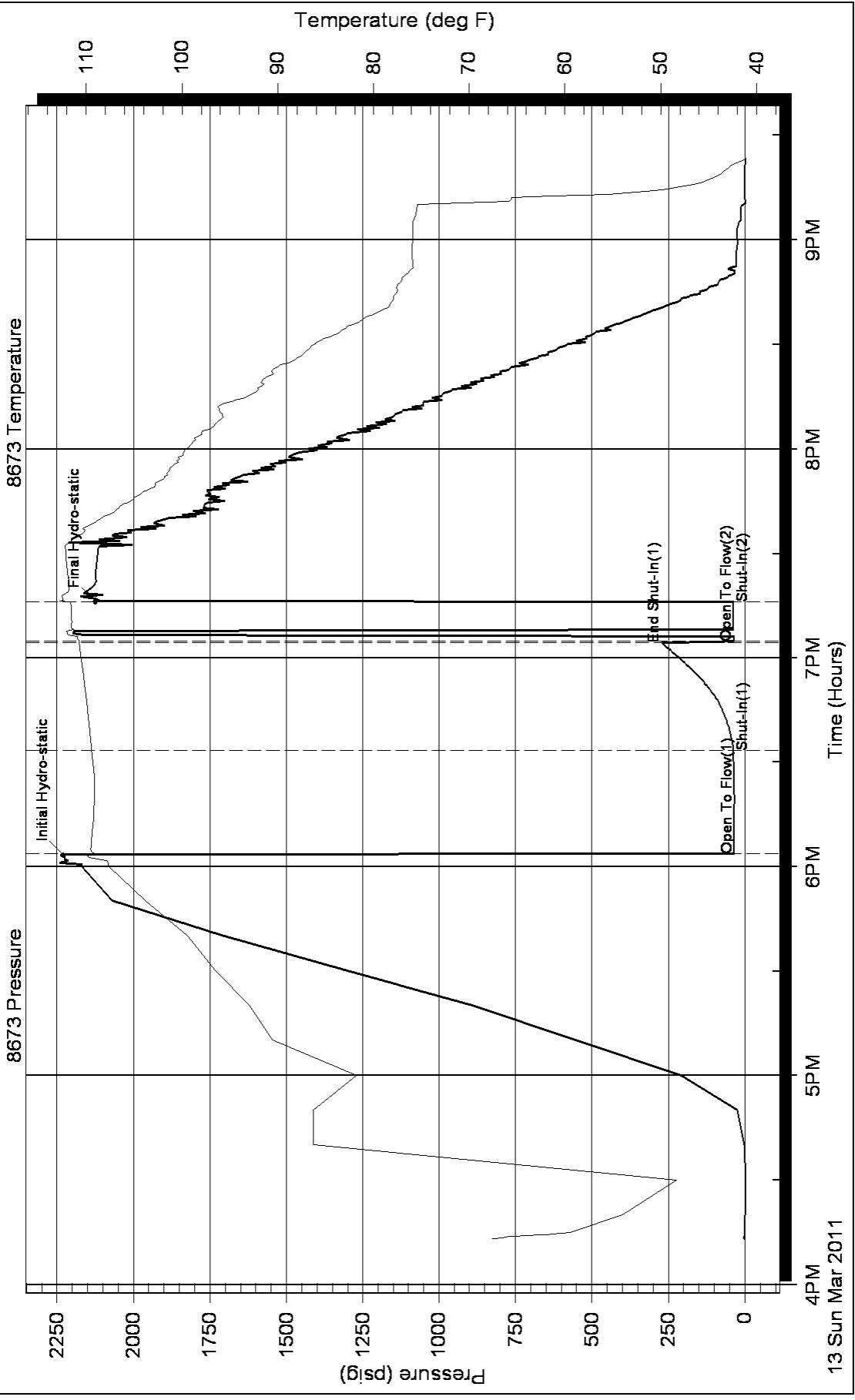
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pickrell Drilling Company, Inc

**#1 Mishler 'E'**

100 S. Main  
Suite 505  
Wichita, KS. 67202  
ATTN: Jerry Smith

**21-17s-25w-Ness**

Job Ticket: 41724

**DST#: 3**

Test Start: 2011.03.14 @ 03:44:06

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:34:51

Time Test Ended: 16:17:06

Test Type: Conventional Bottom Hole

Tester: Jason McLemore

Unit No: 54

**Interval: 4454.00 ft (KB) To 4464.00 ft (KB) (TVD)**

Reference Elevations: 2490.00 ft (KB)

Total Depth: 4464.00 ft (KB) (TVD)

2485.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8673**

**Inside**

Press @ Run Depth: 1069.12 psig @ 4457.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.03.14

End Date:

2011.03.14

Last Calib.:

2011.03.14

Start Time: 03:44:08

End Time:

16:17:06

Time On Btm:

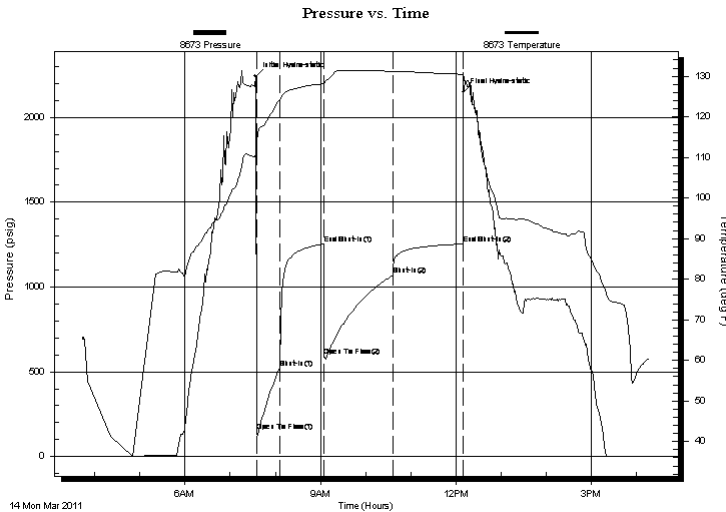
2011.03.14 @ 07:33:51

Time Off Btm:

2011.03.14 @ 12:09:51

**TEST COMMENT:** IFP-Strong, BOB in 1 Min.  
ISI-Dead  
FFP-Strong, BOB in 1 Min.  
FSI-Dead

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2241.97	111.10	Initial Hydro-static
1	149.97	112.55	Open To Flow (1)
32	519.96	124.14	Shut-In(1)
91	1252.53	128.14	End Shut-In(1)
92	592.20	128.16	Open To Flow (2)
183	1069.12	131.22	Shut-In(2)
275	1253.57	130.47	End Shut-In(2)
276	2148.03	130.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2280.00	Salt Water W/Oil Scum	31.98
0.50	Free Oil	0.01

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pickrell Drilling Company, Inc

**#1 Mishler 'E'**

100 S. Main  
Suite 505  
Wichita, KS. 67202  
ATTN: Jerry Smith

**21-17s-25w-Ness**

Job Ticket: 41724

**DST#: 3**

Test Start: 2011.03.14 @ 03:44:06

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 8.78 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 32000 ppm

deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2280.00	Salt Water W/Oil Scum	31.982
0.50	Free Oil	0.007

Total Length: 2280.50 ft      Total Volume: 31.989 bbl

Num Fluid Samples: 0

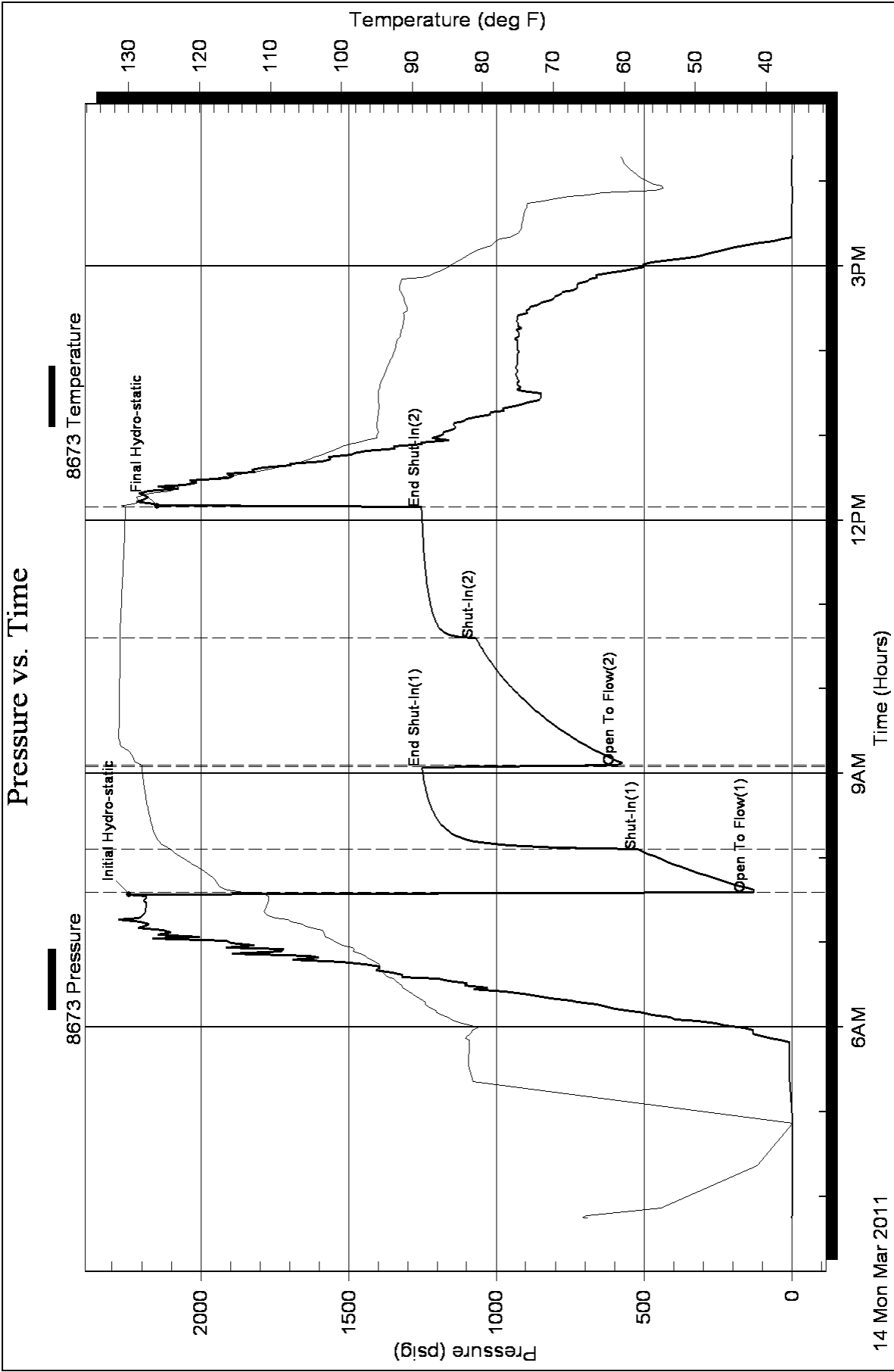
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





3/4°  
1262' 1 1/4°  
1762' 3/4°  
2262' 1/2°  
2762' 3/4°  
3895' 3/4°  
4372' 3/4°

ANHYDRITE  
1805 (+685) SMPL  
1804 (+686) LOG  
B/ANHYDRITE  
1835 (+655) SMPL  
1832 (+658) LOG

VERT. LOG SCALE: 5' = 100'

1700

50

1800

50

1900

3600

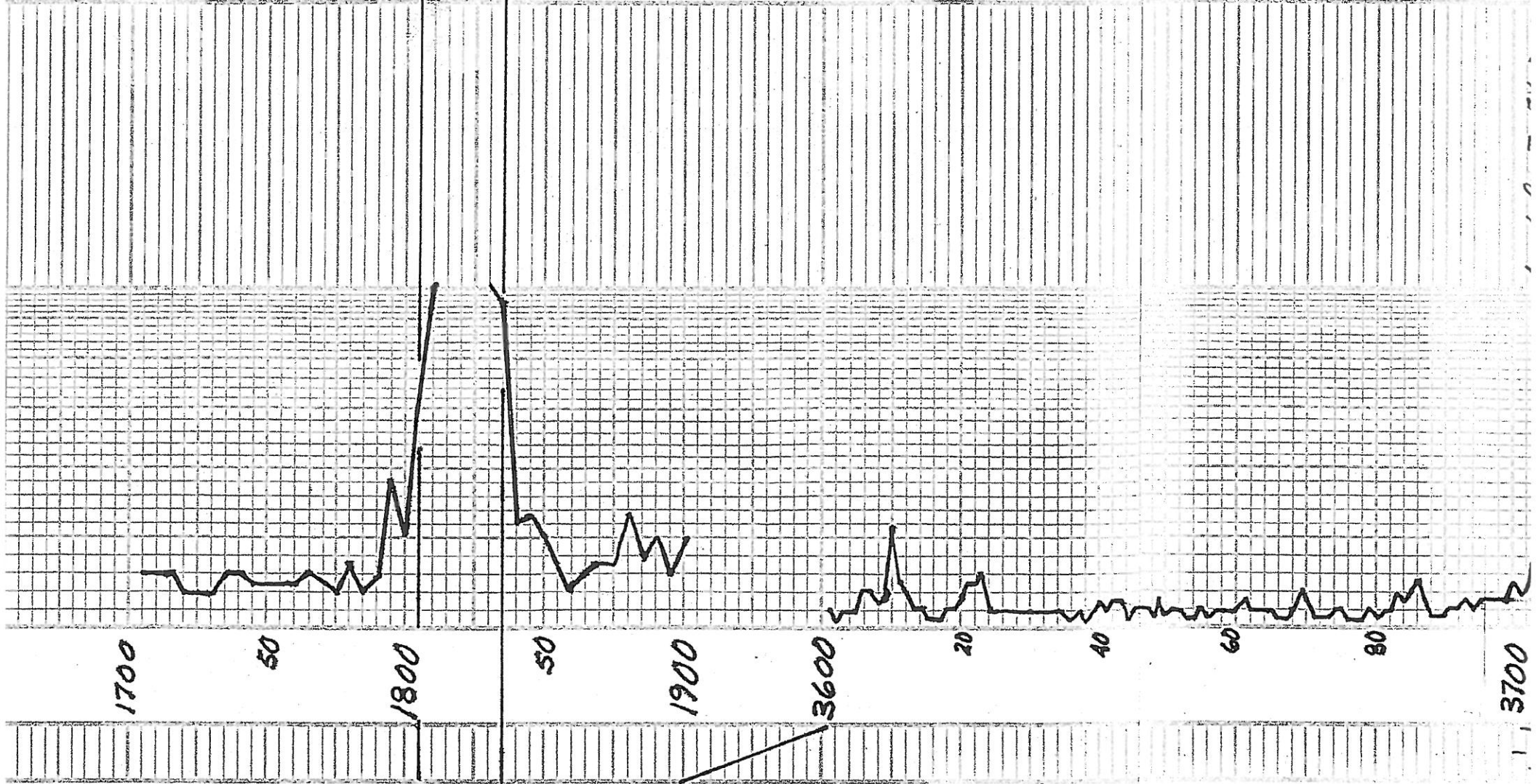
20

40

60

80

3700



SEAT FOR P. NS - KCMR

LM - AA

LM - CRAY TA. FX. DSE →  
SH

LM - CRAY TA. FX. DSE

LM - AA w/ SEAT DR BY  
SH

LM - TA. FX. Foss. DSE

LM - CRAY TA. FX. DSE  
SH

LM - AA

LM - AA

LM - CRAY TA. FX. Foss. DSE  
SH

LM - AA

SH - BUN. CARS. DSE

LM - CRAY TA. FX. DSE

SH - DR BY CR - GN

LM - TA. M BY. FX. DSE

LM - CRAY TA. FX. DSE

LM - CRAY TA. FX. DSE

LM - CRAY TA. FX. DSE  
SH

LM - AA w/ SEAT DR BY  
SH

LM - CRAY TA. FX. DSE  
SH

LM - CRAY TA. FX. DSE

SH - DR BY

LM - AA

LM - CRAY TA. FX. DSE

HEEBNER

3809 (-1319) SMPL & LOG

LANSING

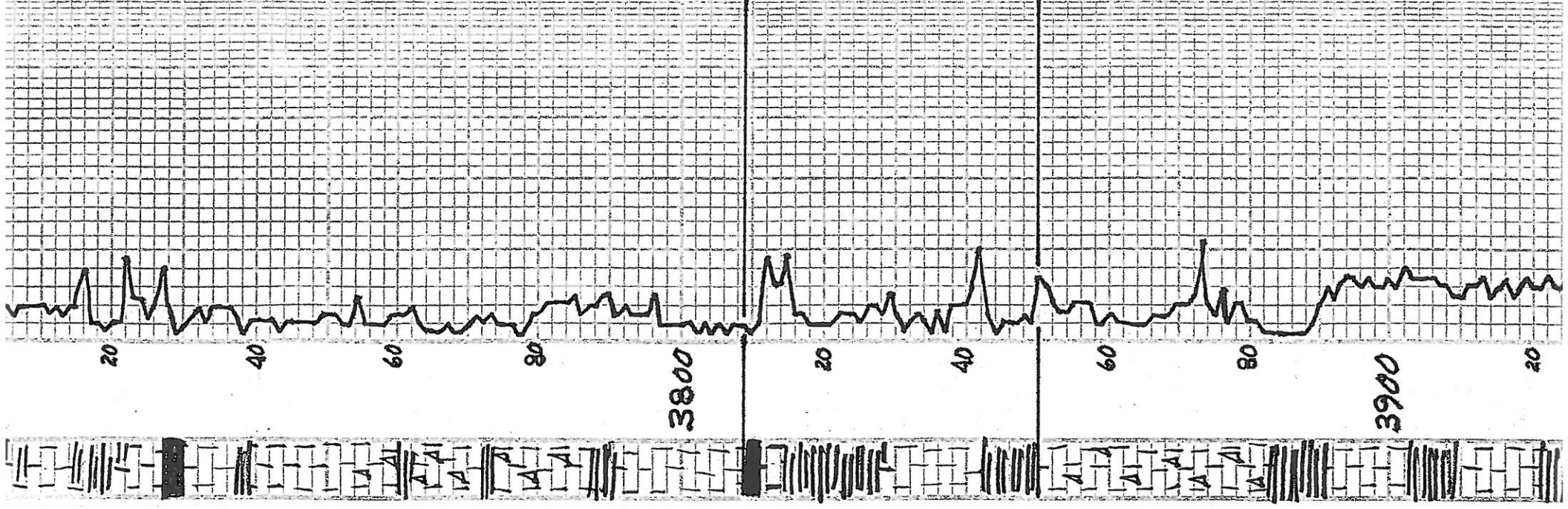
3850 (-1360) SMPL

3851 (-1361) LOG

MUD @ 3915'

9.0 WT, 47 VIS, 10.4 FILT,

7200 CHLOR, TR LCM





LA- LP → N GR. FX. DSE.

LA- AA.

LA- AA.

LA- 3A AA w/ N GR. GY- GA

LA- GRAY. IN. FX. DSE.  
w/ GRAY. IN. FX. DSE.

LA- GRAY. IN. FX. DSE.

LA- GRAY. IN. FX. DSE.  
w/ GRAY. IN. FX. DSE.

LA- GRAY. IN. FX. DSE.  
w/ GRAY. IN. FX. DSE.

LA- GRAY. IN. FX. DSE.

LA- GRAY. IN. FX. DSE.

SH- DR. GR. GY- GA.

LA- Cem. FX. Ho. DSE.

LA- 3A AA w/ N GR. GY- GA

LA- GRAY. IN. FX. DSE.  
w/ GRAY. IN. FX. DSE.

LA- GRAY. IN. FX. DSE.  
w/ GRAY. IN. FX. DSE.

LA- GRAY. IN. FX. DSE.  
w/ GRAY. IN. FX. DSE.

LA- GRAY. IN. FX. DSE.  
w/ GRAY. IN. FX. DSE.

LA- GRAY. IN. FX. DSE.  
w/ GRAY. IN. FX. DSE.

SH- DR. GR. GY- GA.

LA- GRAY. IN. FX. DSE.  
w/ GRAY. IN. FX. DSE.

LA- 3A AA w/ N GR. GY- GA

SH- DR. GR. GY- GA.

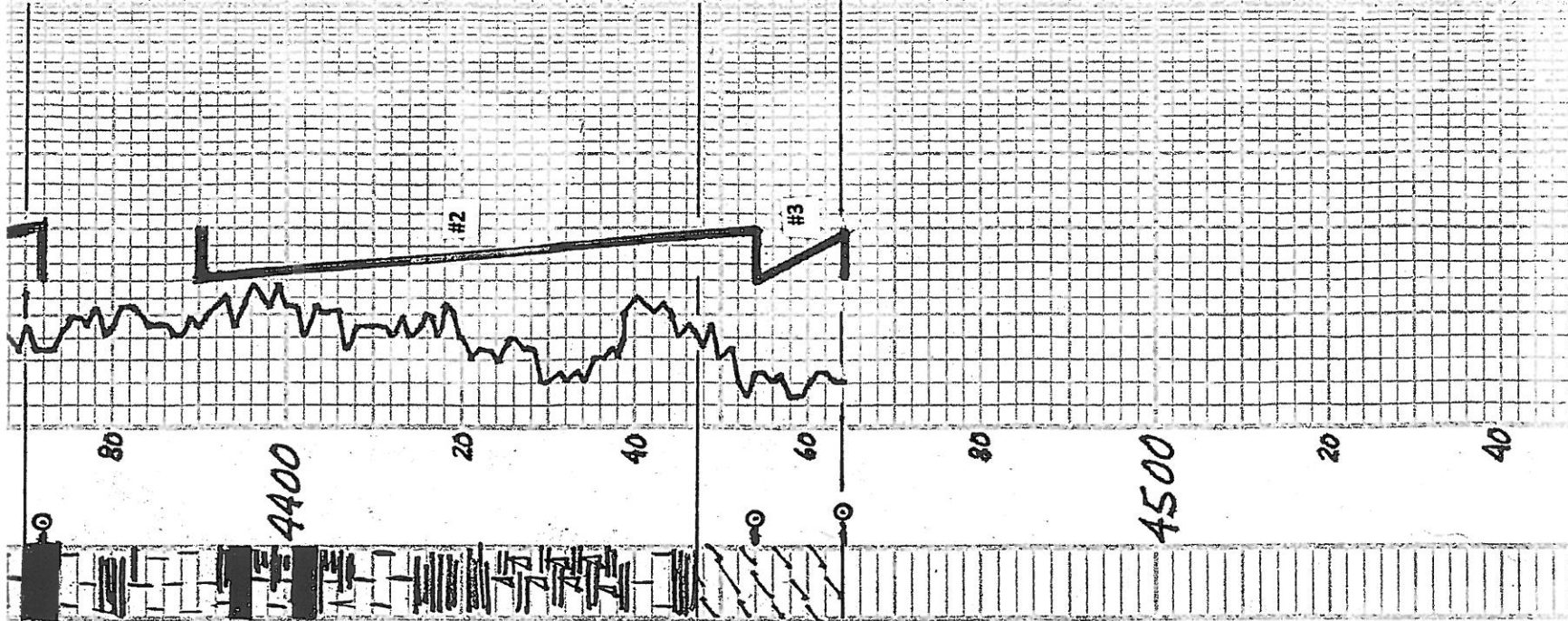
STARK  
4088 (-1598) SMP & LOG

B/KANSAS CITY





3380  
 SH-BLK, CARB.  
 Lm - Gr. Fr. N. G. FX. Lm  
 Dst. Fr. WA, Lm  
 SW-M - DK. GY. Gr. GY.  
 RD.  
 Lm - Gr. Fr. FX. Dst. Ho.  
 Lm - AA.  
 SW-M - DK. GY. Gr. GY.  
 BLK. MARON. GY. GY.  
 SW-AA. w/ Ch. W. Lm  
 GY. GY. Fr. W. Lm  
 REST. STN.  
 Lm - Clay Gr. Fr. F. Dst.  
 Dst. Fr. W. Lm  
 Dst. Fr. W. Lm  
 Dst. Fr. W. Lm  
 Dst. Fr. W. Lm



DEPTH	DRILLING TIME MINUTES/FOOT	SAMPLE DESCRIPTIONS	REMARKS
0	10		
20	15		
40	20		
60	15		
80	10		
100	10		

CHEROKEE SHALE  
 4370 (-1880) SMPL  
 4369 (-1879) LOG  
 PIPE STRAP @ 4372:  
 4388.26 STRAP  
 4387.78 BOARD  
 .48 LONG

DST #2: 4390-4454  
 30-30-15-0  
 IF: DEAD  
 ISI: DEAD  
 FF: DEAD. FLUSH TOOL.  
 SMALL SURGE. DEAD  
 REC.: 1' FO  
 12' VSOCM (1% 0, 99% M)  
 SIP'S: 272-No FSI #  
 FP'S: 34-37/37-38 #  
 HP'S: 2229-2124 #  
 BHT: 111° F

MISSISSIPPIAN  
 4447 (-1957) SMPL & LOG  
 TOTAL DEPTH  
 4464 (-1974) ROTARY & LOG

MUD @ 4464':  
 9.5 WT, 45 VIS, 10.4 ILT,  
 5500 CHLOR, TR LCM

DST #3: 4454-64  
 30-60-90-90  
 IF: STR BLO. BOB IN 1 MIN  
 ISI: DEAD.  
 FF: STR BLO. BOB IN 1 MIN.  
 FSI: DEAD.  
 REC.: 2280' SW W/OIL SCUM  
 (REVERSED OUT)  
 1/2' FO.  
 SIP'S: 1253-1254 #  
 FP'S: 150-520/592-1069 #  
 HP'S: 2242-2148 #  
 BHT: 130° F