



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



1094665

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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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Becker Oil Corporation
Well Name	OLSEN 1
Doc ID	1094665

Tops

Name	Top	Datum
Cedar Hills SS	1112	(+1361)
Stone Corral Anhy.	1612	(+861)
Chase Group	2525	(-52)
Heebner Shale	4036	(-1563)
Lansing Group	4100	(-1627)
Marmaton Group	4574	(-2101)
Base Inola	4773	(-2300)
Mississippian	4802	(-2329)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Becker Oil Corporation  
P.O. box 1150  
Ponca City, Ok 74602  
ATTN: Clyde Becker

**26-24s-24w, Hodgeman, Ks**

**Olsen #1**

Job Ticket: 46215

**DST#: 2**

Test Start: 2011.12.18 @ 09:40:41

## GENERAL INFORMATION:

Formation: **Marm.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:57:11

Time Test Ended: 18:24:41

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 47

**Interval: 4588.00 ft (KB) To 4726.00 ft (KB) (TVD)**

Reference Elevations: 2473.00 ft (KB)

Total Depth: 4726.00 ft (KB) (TVD)

2466.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6753**

**Inside**

Press @ Run Depth: 30.25 psig @ 4589.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.18

End Date:

2011.12.18

Last Calib.: 2011.12.18

Start Time: 09:40:46

End Time:

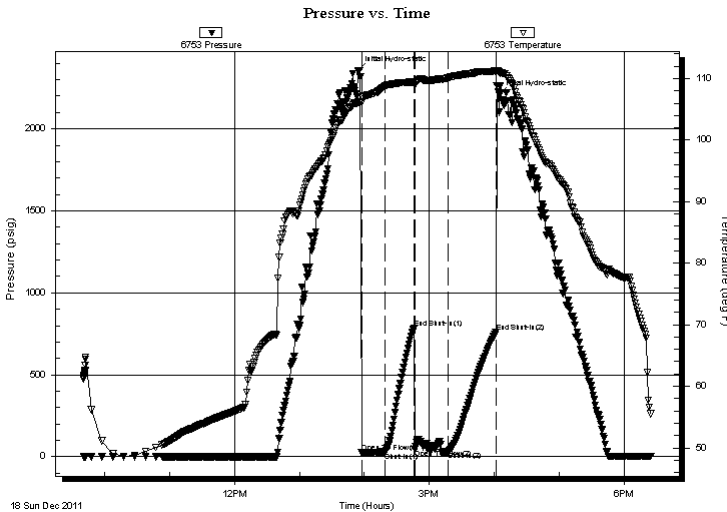
18:24:41

Time On Btm: 2011.12.18 @ 13:54:11

Time Off Btm: 2011.12.18 @ 16:04:41

**TEST COMMENT:** IF-1/2in blow built to 1.25in  
ISI-No blow  
FF-Very weak surface blow died in 20min  
FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2356.88	106.17	Initial Hydro-static
3	24.82	106.06	Open To Flow (1)
25	29.97	108.78	Shut-In(1)
52	783.40	109.45	End Shut-In(1)
52	46.97	108.96	Open To Flow (2)
83	30.25	110.11	Shut-In(2)
127	758.25	111.20	End Shut-In(2)
131	2210.86	110.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud	0.28

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Becker Oil Corporation  
P.O. box 1150  
Ponca City, Ok 74602  
ATTN: Clyde Becker

**26-24s-24w, Hodgeman, Ks**  
**Olsen #1**  
Job Ticket: 46215      **DST#: 2**  
Test Start: 2011.12.18 @ 09:40:41

**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: bbl		
Water Loss: in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8800.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

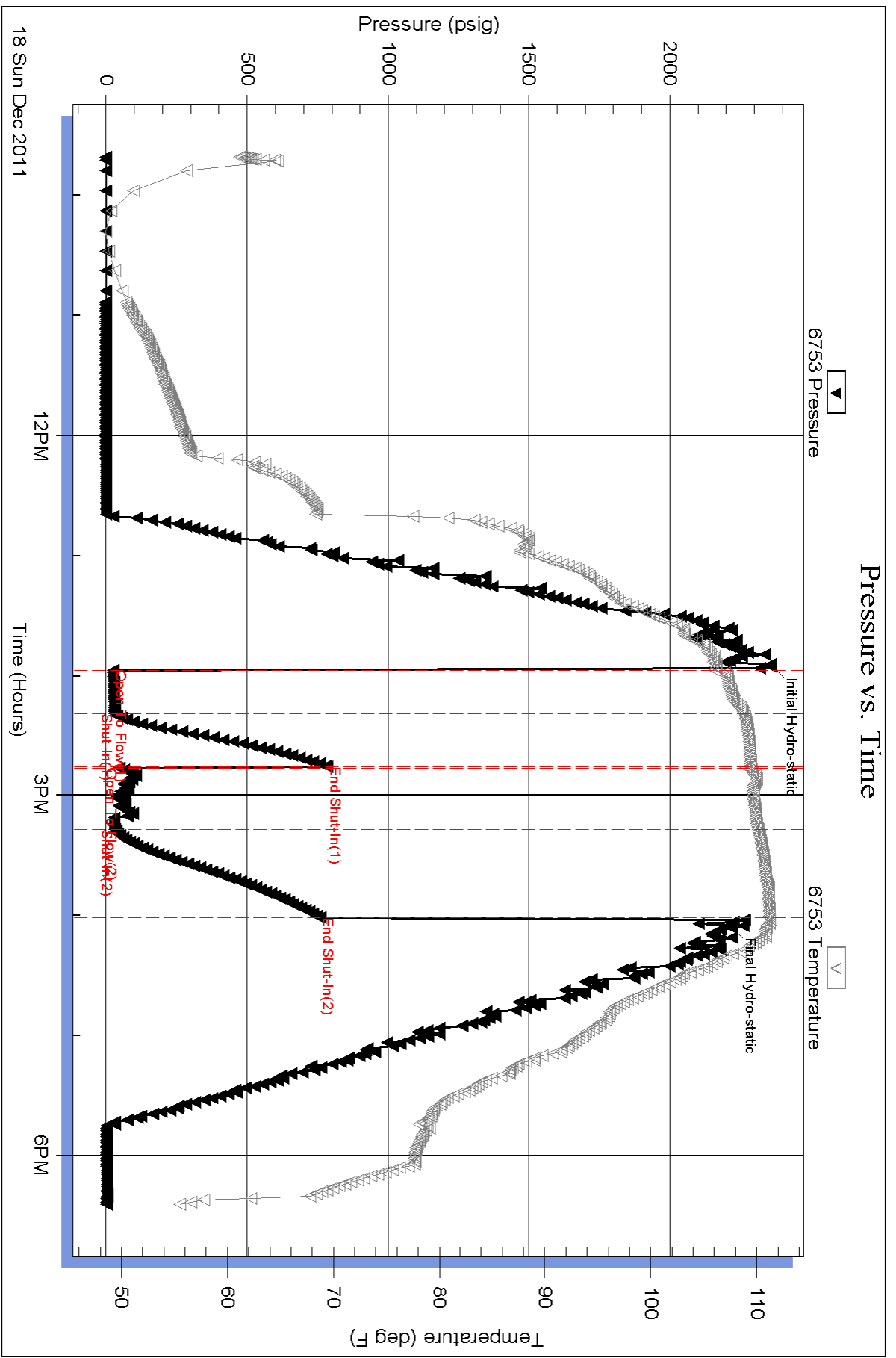
Serial #: 6753

Inside

Becker Oil Corporation

Olsen #1

DST Test Number: 2

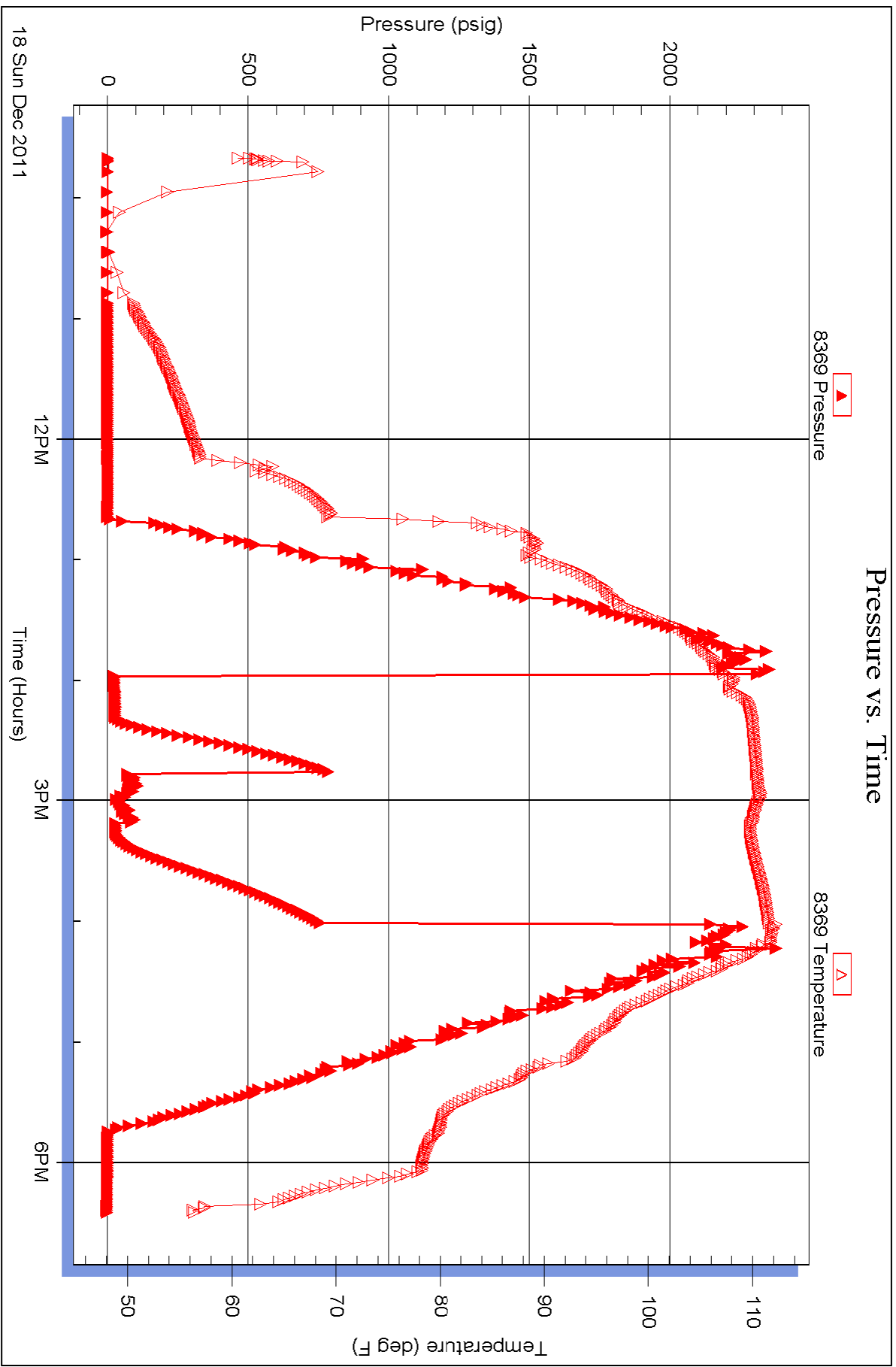


Serial #: 8369

Outside Becker Oil Corporation

Olsen #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 46215

Printed: 2011.12.18 @ 20:15:11





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Becker Oil Corporation

**26-24s-24w ,Hodgeman, Ks**

P.O. box 1150  
Ponca City, Ok 74602

**Olsen #1**

Job Ticket: 46216

**DST#: 3**

ATTN: Clyde Becker

Test Start: 2011.12.19 @ 05:35:00

## GENERAL INFORMATION:

Formation: **Lower Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:06:00

Time Test Ended: 14:19:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 47

**Interval: 4759.00 ft (KB) To 4820.00 ft (KB) (TVD)**

Reference Elevations: 2473.00 ft (KB)

Total Depth: 4820.00 ft (KB) (TVD)

2466.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6753 Inside**

Press @ Run Depth: 82.81 psig @ 4760.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.19 End Date: 2011.12.19

Last Calib.: 2011.12.19

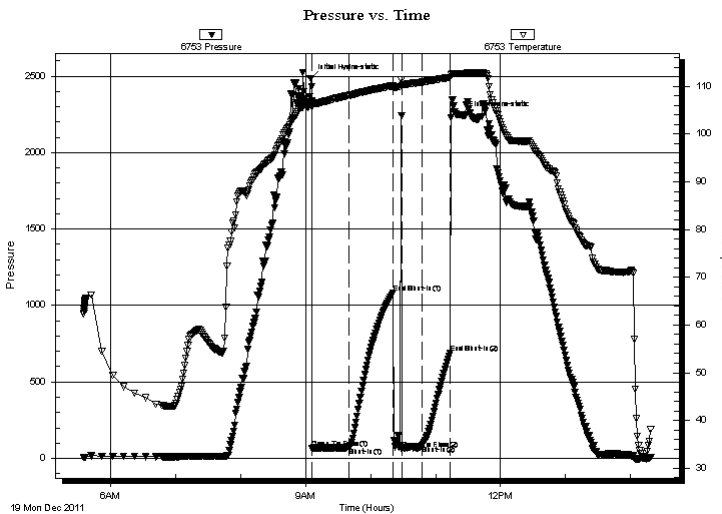
Start Time: 05:35:05 End Time: 14:19:00

Time On Btm: 2011.12.19 @ 09:04:30

Time Off Btm: 2011.12.19 @ 11:24:30

**TEST COMMENT:** IF-1in blow  
ISI-No blow  
FF-No blow flush tool very weak surface blow died in 6min  
FSI-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2486.46	106.73	Initial Hydro-static
2	65.40	105.64	Open To Flow (1)
35	71.54	108.07	Shut-In(1)
76	1082.66	110.12	End Shut-In(1)
85	60.30	109.92	Open To Flow (2)
103	82.81	110.90	Shut-In(2)
129	690.63	111.90	End Shut-In(2)
140	2244.04	112.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	mud	0.63

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Becker Oil Corporation

**26-24s-24w, Hodgeman, Ks**

P.O. box 1150  
Ponca City, Ok 74602

**Olsen #1**

Job Ticket: 46216

**DST#: 3**

ATTN: Clyde Becker

Test Start: 2011.12.19 @ 05:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	mud	0.631

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6753

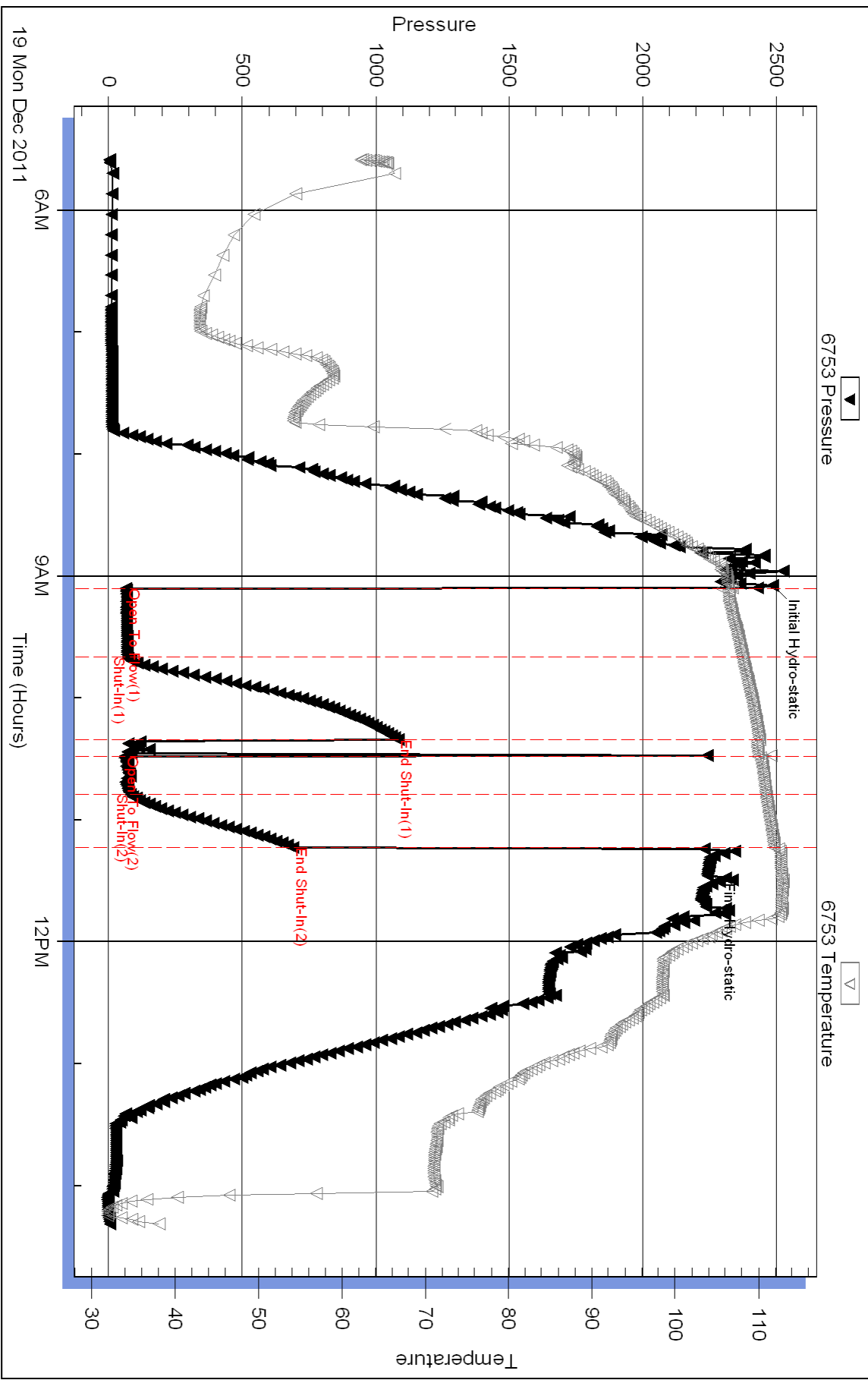
Inside

Becker Oil Corporation

Olsen #1

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46216

Printed: 2011.12.19 @ 14:46:27





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Becker Oil Corporation

26-24s-24w Hodgeman, Ks

PO Box 1150  
Ponca City, Ok 74602

**Olsen #1**

Job Ticket: 45440

DST#: 1

ATTN: Clyde Becker

Test Start: 2011.12.13 @ 08:00:00

### GENERAL INFORMATION:

Formation: **Upper & Lower Krider**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:26:45

Time Test Ended: 15:14:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: **2532.00 ft (KB) To 2595.00 ft (KB) (TVD)**

Reference Elevations: 2473.00 ft (KB)

Total Depth: 2595.00 ft (KB) (TVD)

2466.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8675**

Inside

Press@RunDepth: 96.80 psig @ 2533.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.13

End Date:

2011.12.13

Last Calib.: 2011.12.13

Start Time: 08:00:01

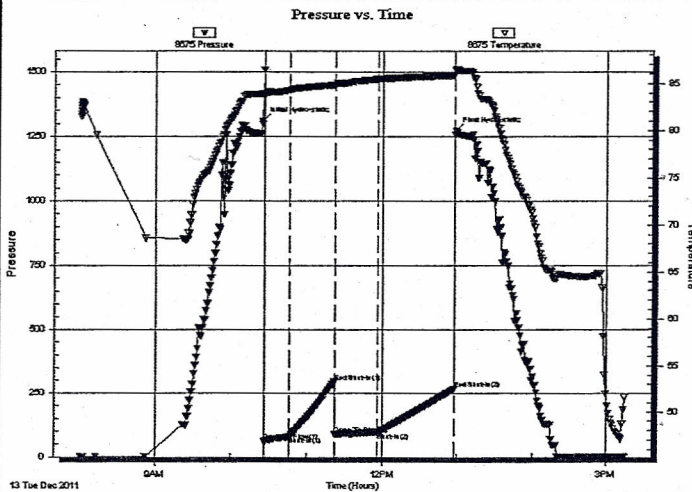
End Time:

15:14:15

Time On Btm: 2011.12.13 @ 10:25:00

Time Off Btm: 2011.12.13 @ 12:58:30

TEST COMMENT: Built to 6" blow  
No return blow  
Built to 6" blow  
Weak surface return blow



### PRESSURE SUMMARY

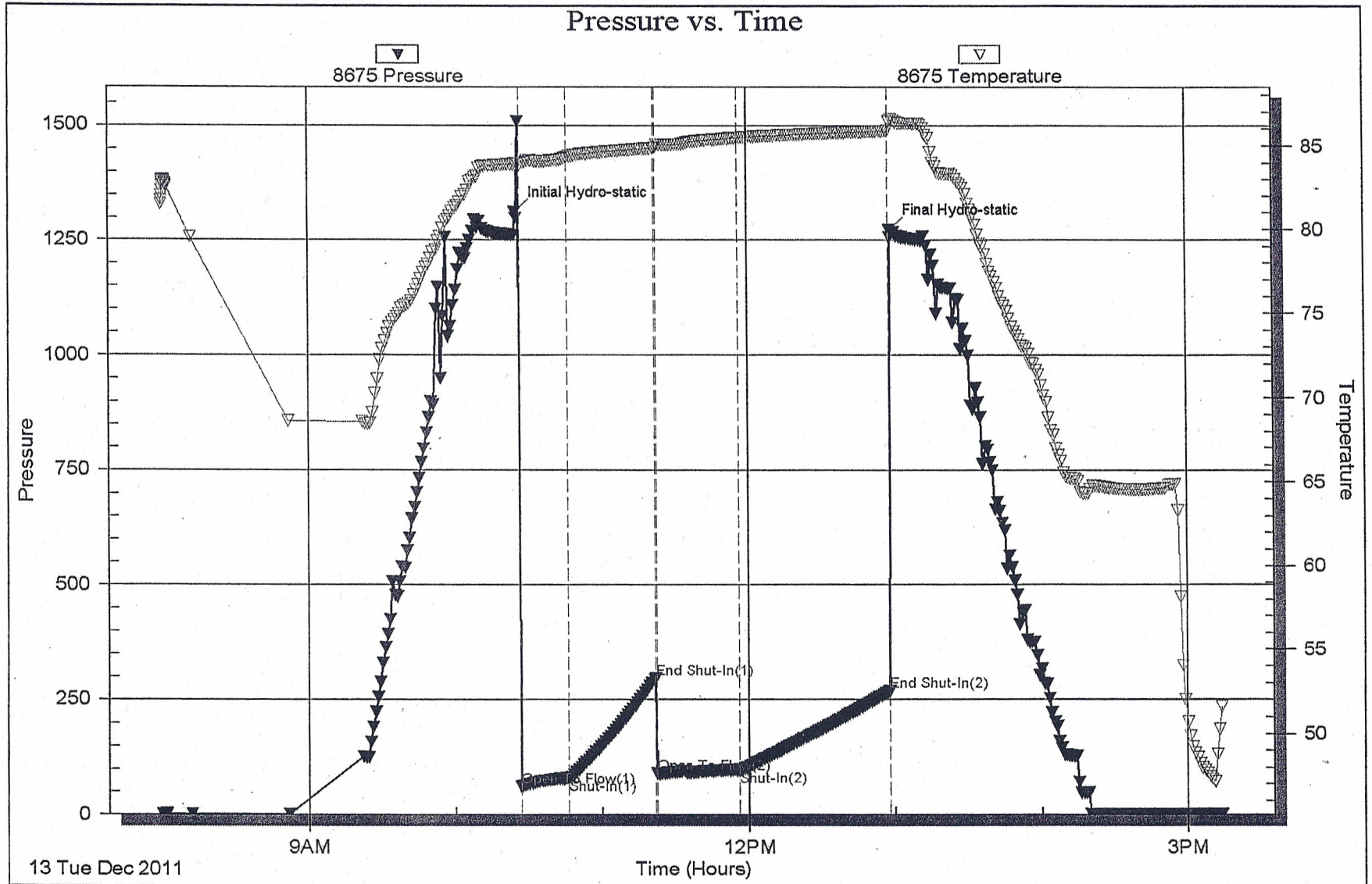
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1310.68	83.93	Initial Hydro-static
2	60.98	83.76	Open To Flow (1)
21	79.67	84.29	Shut-In(1)
57	296.02	84.84	End Shut-In(1)
58	89.39	84.89	Open To Flow (2)
91	96.80	85.45	Shut-In(2)
153	267.48	85.88	End Shut-In(2)
154	1271.69	86.47	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
155.00	100% Mud	0.76

### Gas Rates

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



# ALLIED CEMENTING CO., LLC. 036518

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Liberal KS.

DATE <u>12-10-11</u>	SEC. <u>26</u>	TWP. <u>24s</u>	RANGE <u>24w</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00 AM</u>	JOB FINISH <u>12:45 AM</u>
LEASE <u>Olsen</u>	WELL # <u>1</u>	LOCATION <u>Vec Jetmore KS.</u>			COUNTY <u>Holmes</u>	STATE <u>KS.</u>	
OLD OR <del>NEW</del> (Circle one)							

CONTRACTOR Pickell Drilling OWNER \_\_\_\_\_

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. \_\_\_\_\_

CASING SIZE 8 5/8 DEPTH 256.60

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

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

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

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

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

CEMENT LEFT IN CSG. 20 ft

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

DISPLACEMENT 15.07 BBL

EQUIPMENT \_\_\_\_\_

CEMENT AMOUNT ORDERED 150 SK Class A

3 1/2 CC 2 1/2 CC

COMMON 150 @ 16.25 2437.50

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

GEL 3 @ 21.25 63.75

CHLORIDE 5 @ 58.20 291.00

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

PUMP TRUCK CEMENTER Kenney ①

# 372 HELPER Leamy ③

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

# 472-467 DRIVER Jose ③

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

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

HANDLING 150 @ 2.25 337.50

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

TOTAL 3651.15

REMARKS:

**SERVICE**

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

PUMP TRUCK CHARGE \_\_\_\_\_ 1125.00

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

MILEAGE 30 @ 7.00 210.00

MANIFOLD 30 @ 4.00 120.00

TOTAL \_\_\_\_\_

*THANK YOU!!!*

CHARGE TO: Becker Oil

STREET \_\_\_\_\_

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

**PLUG & FLOAT EQUIPMENT**

NA

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

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

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

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

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

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]

SALES TAX (if Any) 208.02

TOTAL CHARGES 5102.25

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

3659.22

D 1020.45 20/70

1432.95 TR

3667.30 Net





2700

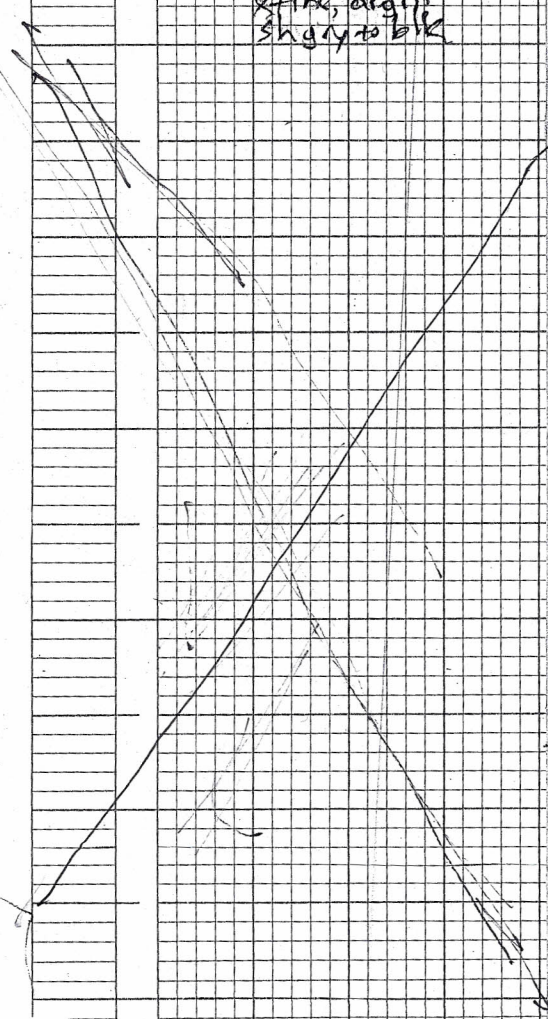
Towanda

Fr. Riley

2800

Florence

a/at sh gry gl n, use  
 dol wh, v. argill  
 sh red to gry-grn  
 v. soft  
 sh gl  
 shay wh to rust  
 dol buff gry, dens  
 dol buff to gry, argill  
 to dens  
 gl + dol gry, v. argill  
 sh red  
 sh blk hard  
 sh gry to red  
 dol gry v. argill  
 dol gry  
 dens to fine  
 argill.  
 a/a  
 a/a  
 a/a + ls, wh, v. chky  
 v. soft  
 ls gry, argill  
 to dens to fine  
 argill, sh interbed  
 ls lry, fine  
 argill, no  
 a/a + ls gry, dens  
 gry argill.  
 a/a + ls gry, v. argill  
 v. soft  
 ls dk gry, dens  
 ls buff, v. argill  
 ls gry, dense to argill,  
 to fine no  
 ls tan argill  
 how soft  
 ls argill  
 ls argill to chky  
 ls gry argill to dens  
 sh gry  
 ls gry, dense to fine  
 argill, argill  
 sh gry to blk



Fr. Riley  
 Florence  
 Towanda

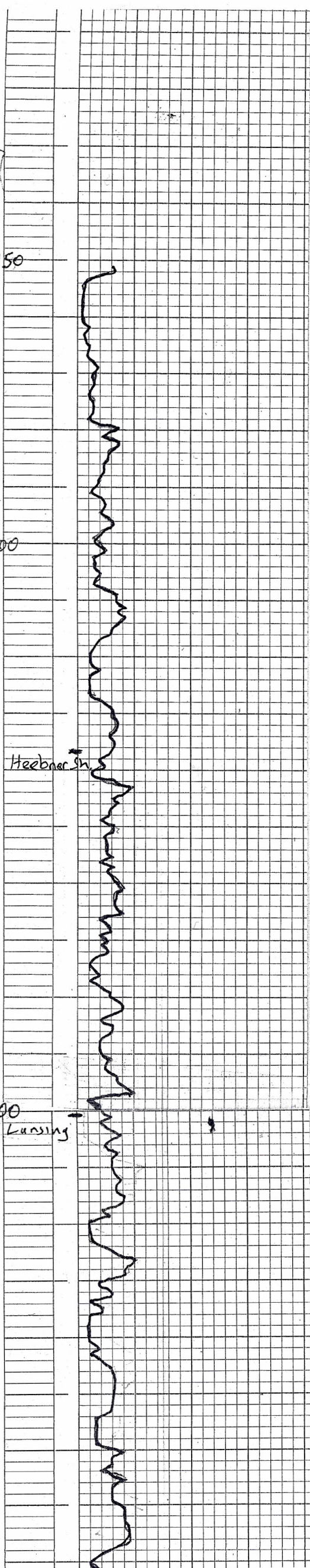
3950

4000

Heebner Sh.

4100

Lansing



4200

4300

4400

Stacks

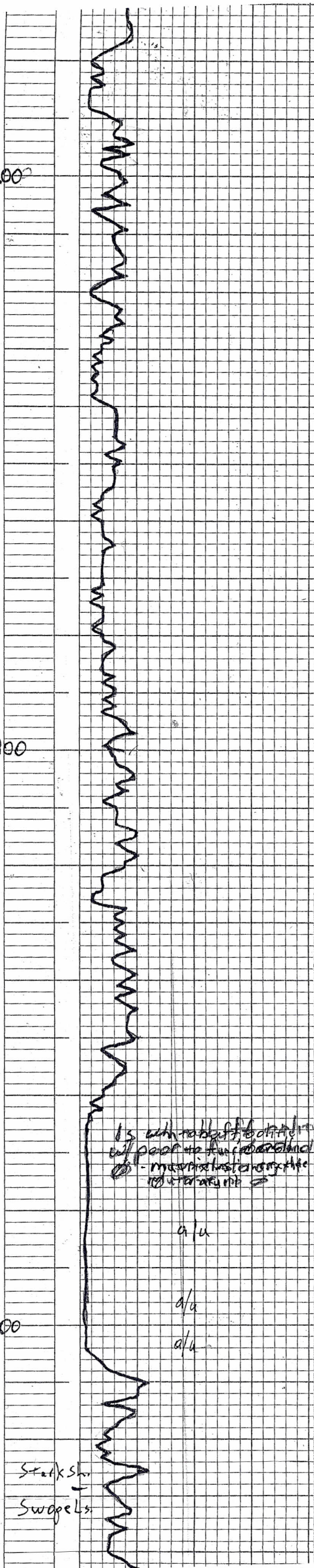
Swaps

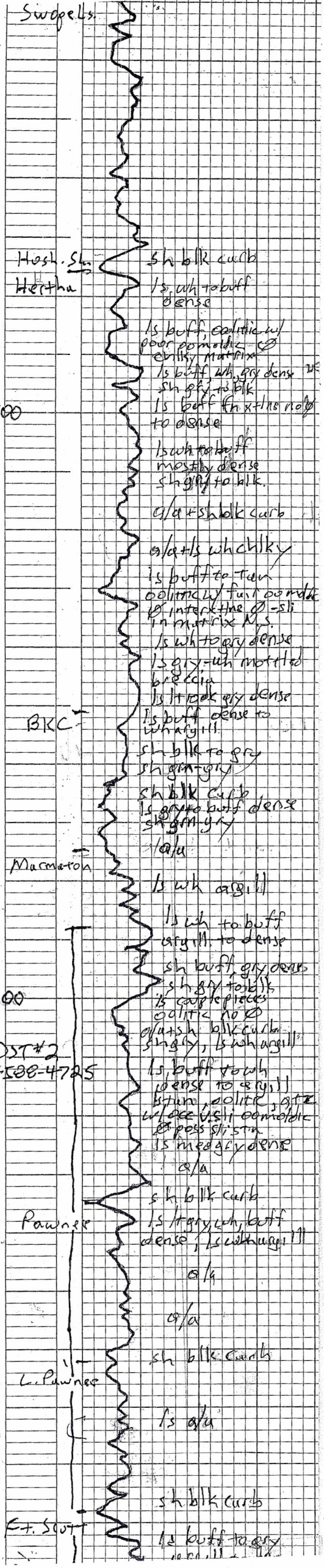
is with rabbit  
of pair to find  
- maximum  
relatively

a/u

a/u

a/u





Swopells

Hosh. S.  
Hertha

4500

BKC

Marmoron

4600

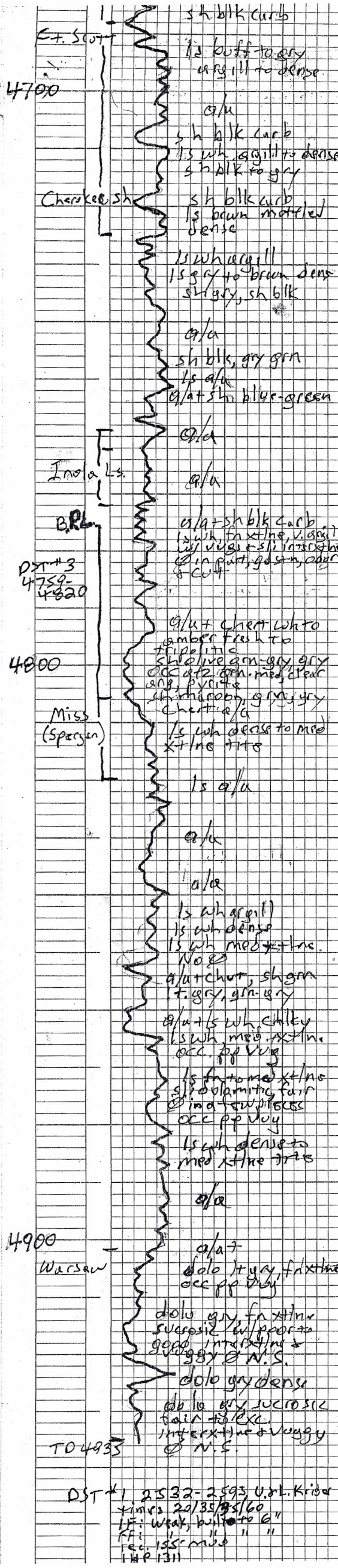
DST#2  
4508-4725

Pawnee

L. Pawnee

Est. Soot

sh blk carb  
 ls wh to buff dense  
 ls buff, calcitic w/ poor oomitic cherty matrix  
 ls buff wh, grey dense  
 sh grey to blk  
 ls buff (in x+ls nod) to dense  
 ls wh to buff mostly dense  
 sh grey to blk  
 a/a + sh blk carb  
 a/a + ls wh chky  
 ls buff to tan calcitic w/ fine oomitic intersecting sli in matrix Ms.  
 ls wh to grey dense  
 ls grey-wh mottled breccia  
 ls blk grey dense  
 ls buff dense to argill.  
 sh blk to grey  
 sh grey  
 sh blk carb  
 ls grey to buff dense  
 sh grey  
 a/a  
 ls wh argill.  
 ls wh to buff argill. to dense  
 sh buff grey dense  
 sh grey to blk  
 ls calcitic pieces  
 calcitic nod  
 a/a + sh blk carb singly, ls wh argill.  
 ls buff to wh dense to argill.  
 bitum, calcitic, etc  
 w/ calc. v. sli oomitic  
 poss sli stn  
 ls med grey dense  
 a/a  
 sh blk carb  
 ls grey wh, buff dense, ls wh argill.  
 a/a  
 a/a  
 sh blk carb  
 ls a/a  
 sh blk carb  
 ls buff to grey



Est. Scot.

4790

sh blk carb  
 ls buff to gry  
 arg ill to dense  
 a/a  
 sh blk carb  
 ls wh, arg ill to dense  
 sh blk to gry  
 Cherokee, sh  
 sh blk carb  
 ls brown mottled  
 dense  
 ls wh arg ill  
 ls gry to brown dense  
 sh gry, sh blk  
 a/a  
 sh blk, gry grn  
 ls a/a  
 a/a + sh blue-green

Ino a Ls.

Brk

DST #3  
4759-  
4820

4800

a/a  
 a/a  
 a/a + sh blk carb  
 ls wh, fn xtlms, v. arg ill  
 ls arg ill to sh, in part, arg ill, med  
 & cut  
 g/a + chert white  
 amber fresh to  
 + p. lentic  
 sh olive green-grey, gry  
 occ. arg. med. clear  
 arg, pyrite  
 sh cherty, gry, gry  
 chert a/a  
 ls wh dense to med  
 xtlms fine

Miss (Spargen)

ls a/a  
 a/a  
 a/a  
 ls wh arg ill  
 ls wh dense  
 ls wh med xtlms  
 No 22  
 a/a chert, sh grn  
 t. gry, sh gry  
 a/a + ls wh cherty  
 ls wh med. xtlms  
 occ. pp vug  
 ls fn to med xtlms  
 sh argillitic fair  
 in a few places  
 occ pp vug  
 ls wh dense to  
 med xtlms fine

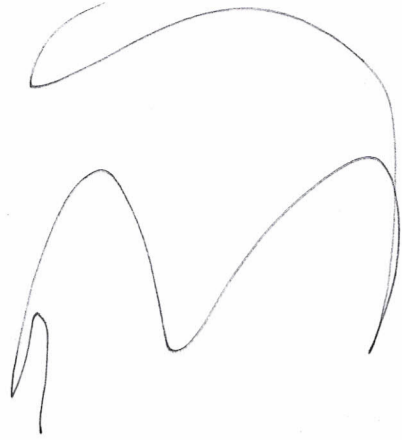
4900

Warsaw

a/a +  
 dolo lt gry, fn xtlms  
 occ pp vug  
 dolo gry, fn xtlms  
 super. w/poros  
 occ. int. xtlms &  
 arg & N.S.  
 dolo gry dense  
 dolo gry, sucrosic  
 fair to exc.  
 interxtms & vuggy  
 N.S.

TO 4935

DST #1 2532-2595 U.M. Krida  
 times 20/35/50/60  
 LF: weak, bulk to 6"  
 RF: " " " "  
 rec. 155 med " "  
 HP 1311



	a/a	ls wh dense ls wh med xtrnc No 82
	a/a	g/atchur, shgm t. gy, gn-gy
	a/a	ls wh med xtrnc occ pp vug
	a/a	ls wh dense to med xtrnc trs
4900	a/a	
Warsaw	a/a	dolo lt gy, faxtrnc occ pp vug
	a/a	dolo gy, faxtrnc sucrosic, w/ pectra 9000 interxtrnc & N.S.
TO 4935	a/a	dolo gy dense dolo gy sucrosic fair to exk interxtrnc & vuggy N.S.
	DST #1 2532-2593 U. of. Krida	
	Times 20/35/35/60	
	IF: weak, built to 6"	
	FF: 155 mvd	
	IHP 1311	
	IFP 61-80	
	ISIP 296	
	FFP 89-97	
	KSP 267	
	FHP 1272	
	DST #2 4530-4725 Musmuson	
	Times 20/30/30/45	
	IF: weak, 1/2" blow, died in 20"	
	FF: no blow	
	IHP 2057	
	IFP 25-30	
	ISIP 703	
	FFP 47-30	
	KSP 758	
	FHP 2211	
	DST #3 4759-4820	
	Inola - Miss	
	Times 30/45/20/30	
	IF: 1/2" blow	
	FF: no blow	
	IHP 2486	
	IFP 65-72	
	ISIP 1003	
	FFP 60-83	
	KSP 691	
	FHP 2244	