



KANSAS CORPORATION COMMISSION 1091005  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5146  
Name: Rains & Williamson Oil Co., Inc.  
Address 1: 220 W DOUGLAS STE 110  
Address 2: \_\_\_\_\_  
City: WICHITA State: KS Zip: 67202 + 3104  
Contact Person: Juanita Green  
Phone: ( 316 ) 265-9686  
CONTRACTOR: License # 33493  
Name: American Eagle Drilling LLC  
Wellsite Geologist: W. Scott Alberg  
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 #: \_\_\_\_\_  
7/11/2012    7/19/2012    7/19/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-179-21308-00-00  
Spot Description: 80' S  
N2\_NW\_SE\_NW Sec. 36 Twp. 9 S. R. 26  East  West  
1400 Feet from  North /  South Line of Section  
1650 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Sheridan  
Lease Name: FORE Well #: 6-36  
Field Name: \_\_\_\_\_  
Producing Formation: Lansing/KC  
Elevation: Ground: 2614 Kelly Bushing: 2621  
Total Depth: 4150 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 247 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: 2000 ppm Fluid volume: 400 bbls  
Dewatering method used: Evaporated  
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: Deanna Garriso Date: 08/22/2012



1091005

Operator Name: Rains & Williamson Oil Co., Inc. Lease Name: FORE Well #: 6-36  
 Sec. 36 Twp. 9 S. R. 26  East  West County: Sheridan

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  <small>Dual Induction Log Dual Compensated Porosity Log Microresistivity</small>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
--	--

CASING RECORD <input checked="" 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
Surface	12.25	8.625	24	247	Common	170	3% cc, 2% gel

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: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

<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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Rains & Williamson Oil Co., Inc.
Well Name	FORE 6-36
Doc ID	1091005

Tops

Name	Top	Datum
Anhydrite	2259	+362
B/Anhydrite	2293	+328
Topeka	3615	-994
Heebner Shale	3828	-1207
Toronto	3851	-1230
Lansing	3868	-1247
200' Zone	4066	-1445
Base Kansas City	4098	-1477
LTD	4146	-1525

# ALLIED OIL & GAS SERVICES, LLC 056452

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

SERVICE POINT: Crossell Ks.

DATE <u>7-11-12</u>	SEC. <u>36</u>	TWP. <u>9</u>	RANGE <u>26</u>	CALLED OUT	ON LOCATION	JOB START <u>1:30 PM</u>	JOB FINISH <u>2:05 PM</u>
LEASE <u>FORE</u>	WELL # <u>6-36</u>	LOCATION <u>ST Peter 3H 5W Yab</u>				COUNTY <u>Shelby</u>	STATE <u>KANSAS</u>
OLD OR <u>(NEW)</u> (Circle one)		1.01          8.3					

CONTRACTOR American Eagle Rig #2  
 TYPE OF JOB Cement Surface  
 HOLE SIZE 12 1/4 T.D. 249'  
 CASING SIZE 8 7/8 New DEPTH 249'  
 TUBING SIZE 2 1/2 # CSG DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 250 MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15'  
 PERFS.  
 DISPLACEMENT 14.90 / BBL

OWNER  
 CEMENT  
 AMOUNT ORDERED 170 SX Com.  
3% gel  
2% Gel  
 COMMON 170 SX @ 16.25 2762.50  
 POZMIX @  
 GEL 3 SX @ 21.25 63.75  
 CHLORIDE 6 SX @ 58.20 349.20  
 ASC @  
 HANDLING 179 @ 2.25 402.75  
 MILEAGE 60 x 179 x .11 e 1181.40  
 10740          TOTAL 4759.60

EQUIPMENT  
 PUMP TRUCK CEMENTER General G.  
 # 417 HELPER Woody O.  
 BULK TRUCK  
 # 481 DRIVER Robert Y.  
 BULK TRUCK  
 # DRIVER

**REMARKS:**

Run 6 New Joints of 24 # 8 7/8 CSG.  
Set @ 249' Received Circulation  
Cement w/ 170 sx comm. 3% gel. Displace  
14.90 BBL behind Cement. Shut-in  
@ 150'.  
Cement Circulated to Surface  
Hard 15'

SERVICE  
 DEPTH OF JOB  
 PUMP TRUCK CHARGE 1125.00  
 EXTRA FOOTAGE @  
 MILEAGE 60 HWY @ 7.00 420.00  
 MANIFOLD @  
60 HWY @ 4.00 240.00  
 @  
 TOTAL 1785.00

CHARGE TO: Bains & Williamson Oil Co Inc.  
 STREET  
 CITY STATE ZIP

**PLUG & FLOAT EQUIPMENT**

@  
 @  
 @  
 @  
 @  
 TOTAL 0

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

SALES TAX (If Any) 263.56  
 TOTAL CHARGES 6544.60  
 DISCOUNT 20% 1308.94 IF PAID IN 30 DAYS  
55 7-12  
net 4683.26  
before tax

PRINTED NAME  
 SIGNATURE Bruce R. Paine

RECEIVED  
 AUG 06 2012  
 KCC WICHITA

# ALLIED OIL & GAS SERVICES, LLC 056709

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

SERVICE POINT:

Delkley

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
7-19-12	36	9S	26W			10:00	11:00 am
LEASE	WELL #	LOCATION			COUNTY	STATE	
Fore	6-36	St Peter 3N 4 3/4 W			Sheridan	KS	
OLD OR (NEW) (Circle one) <span style="margin-left: 150px;">S into</span>							

CONTRACTOR American Eagle #2 OWNER same 1.03

TYPE OF JOB PTA

HOLE SIZE 2 7/8 T.D. 4150'

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 2290'

TOOL DEPTH

PRES. MAX DEPTH

MEAS. LINE MINIMUM SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

**CEMENT**

AMOUNT ORDERED 205 sks 60/100 Regal

14 Flo-seal

COMMON 123 sks @ 16.25 1998.75

POZMIX 82 sks @ 8.50 697.00

GBL 7 sks @ 8.25 57.75

CHLORIDE @

ASC @

**EQUIPMENT**

PUMP TRUCK CEMENTER Andrew Borland

# 431 HELPER Dane Retzloff

BULK TRUCK DRIVER Jeremy Steger 3

# 347

BULK TRUCK DRIVER

#

Flo-seal 51" @ 2.20 132.20

HANDLING 200 168 cy/hr @ 2.10 422.80

MILBAG 2.55 mil/mile 9,183 mil 1294.21

**REMARKS:**

25 sks @ 2290'

100 sks @ 1339'

40 sks @ 300'

10 sks @ 40'

30 sks Ref hole

TOTAL 4740.76

551.51

**SERVICE**

DEPTH OF JOB 2290'

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE @

MILBAG 60 miles @ 2.00 1200.00

MANIFOLD @

Light vehicle @ 4.00 240.00

TOTAL 1910.00

**PLUG & FLOAT EQUIPMENT**

8 5/8

1 Dry hole plug @ 92.00

@

@

@

TOTAL 92.00

SALES TAX (If Any) 559.64

TOTAL CHARGES 6742.76

DISCOUNT 1318.55 IF PAID IN 30 DAYS

Thank you

CHARGE TO: Rains & Williams oil co

STREET

CITY STATE ZIP

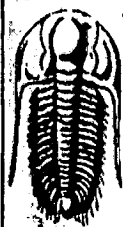
To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cement 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 Pete Waggoner

SIGNATURE Pete Waggoner

RECEIVED  
 AUG 06 2012  
 KCC WICHITA



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Rains & Williamson Oil Co.

36-9s-26w-Graham

220 W. Douglas  
Suite 110  
Wichita, KS. 67202  
ATTN: Scott Alberg

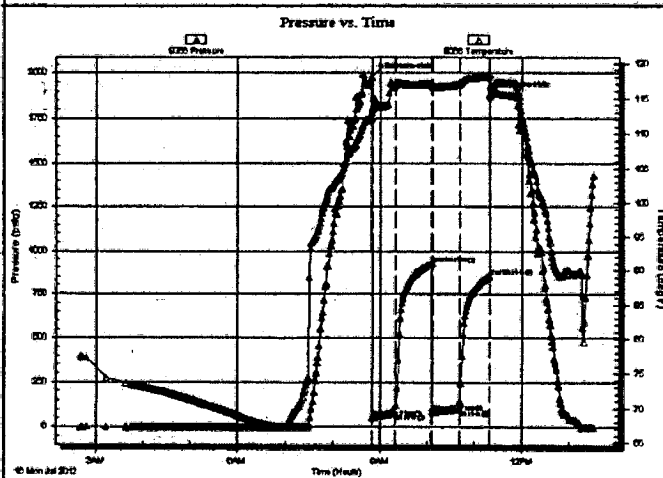
Fore #6-36  
Job Ticket: 47830      DST#: 1  
Test Start: 2012.07.16 @ 02:40:54

### GENERAL INFORMATION:

Formation: **Toronto-A-B**  
 Deviated: **No** Whipstock: **0.00 ft (KB)**  
 Time Tool Opened: 08:49:39  
 Time Test Ended: 13:32:24  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Jason McLemore**  
 Unit No: **54**  
 Interval: **3830.00 ft (KB) To 3906.00 ft (KB) (TVD)**  
 Total Depth: **3906.00 ft (KB) (TVD)**  
 Hole Diameter: **7.80 inches** Hole Condition: **Good**  
 Reference Elevations: **2621.00 ft (KB)**  
**2614.00 ft (CF)**  
**KB to GR/CF: 7.00 ft**

Serial #: **8366** Inside  
 Press@RunDepth: **101.04 psig @ 3896.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2012.07.16** End Date: **2012.07.16** Last Calib.: **2012.07.16**  
 Start Time: **02:40:54** End Time: **13:32:24** Time On Btm: **2012.07.16 @ 08:49:24**  
 Time Off Btm: **2012.07.16 @ 11:19:24**

TEST COMMENT: **FP-Weak Blow, Built to 2-3/4"**  
**ISI-Dead**  
**FFP-Weak Blow, Built to 1-1/4"**  
**FSI-Dead**



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1978.07	113.56	Initial Hydro-static
1	51.49	113.05	Open To Flow (1)
30	78.29	117.02	Shut-In(1)
77	922.48	117.06	End Shut-In(1)
78	82.23	116.80	Open To Flow (2)
112	101.04	117.04	Shut-In(2)
150	850.09	118.13	End Shut-In(2)
150	1875.62	118.42	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCMM-1%O-59%W-40%M	0.42
80.00	VSOCM-5%O-95%M	1.12

### Gas Rates

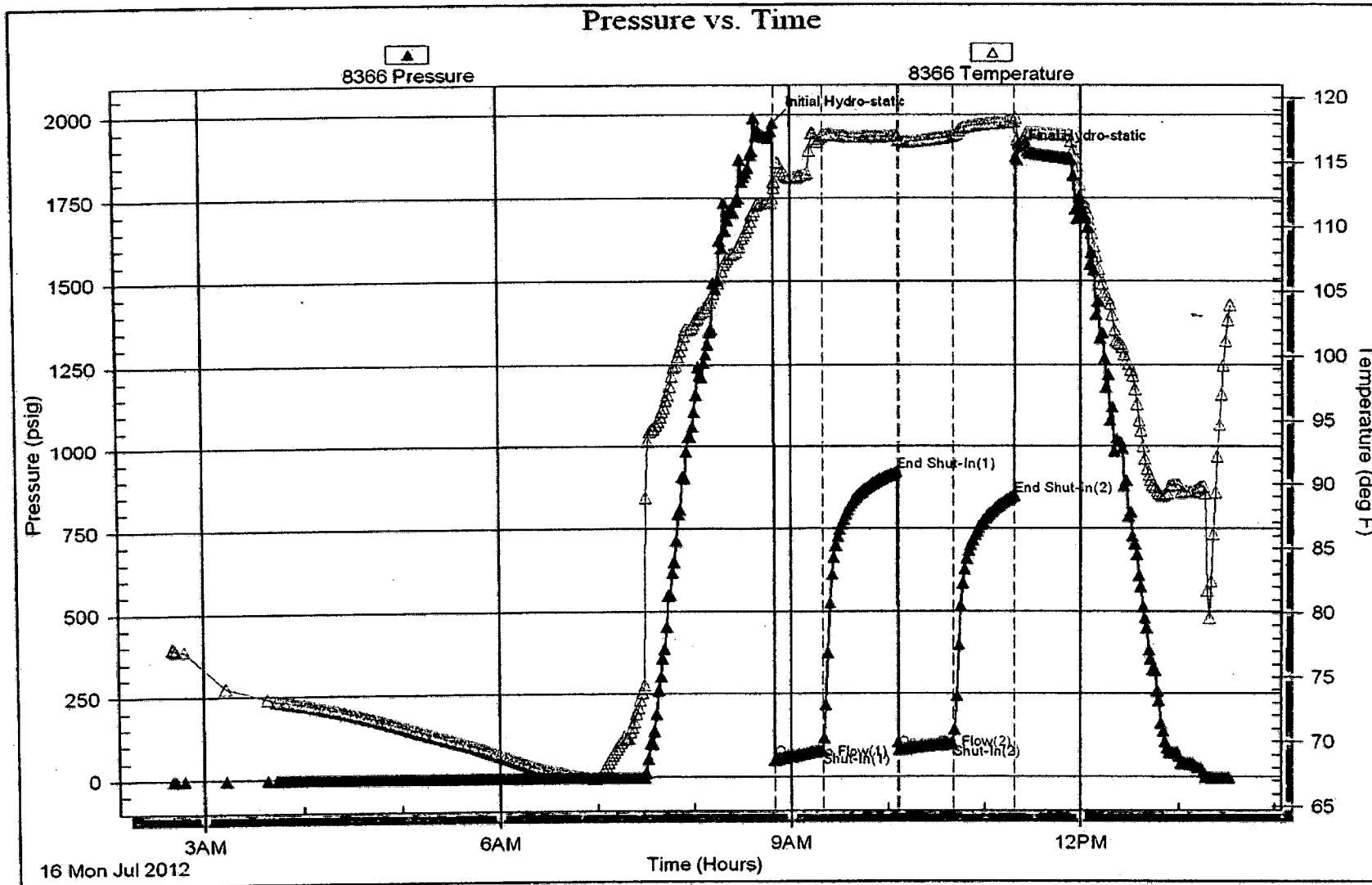
Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

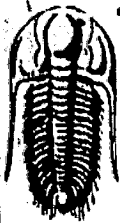
Serial #: 8366

Inside Rains & Williamson Oil Co.

Fore #6-36

DST Test Number: 1





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Rains & Williamson Oil Co.  
220 W. Douglas  
Suite 110  
Wichita, KS. 67202  
ATTN: Scott Alberg

**36-9s-26w-Graham**  
**Fore #8-36**  
Job Ticket: 47831      **DST#: 2**  
Test Start: 2012.07.17 @ 03:16:20

## GENERAL INFORMATION:

Formation: H  
Deviated: No      Whipstock: 0.00 ft (KB)  
Time Tool Opened: 08:45:05  
Time Test Ended: 12:08:05

Test Type: Conventional Bottom Hole (Reset)  
Tester: Jason McLemore  
Unit No: 54

Interval: 3979.00 ft (KB) To 4014.00 ft (KB) (TVD)  
Total Depth: 4014.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches      Hole Condition: Good

Reference Elevations: 2621.00 ft (KB)  
2614.00 ft (CF)  
KB to GR/CF: 7.00 ft

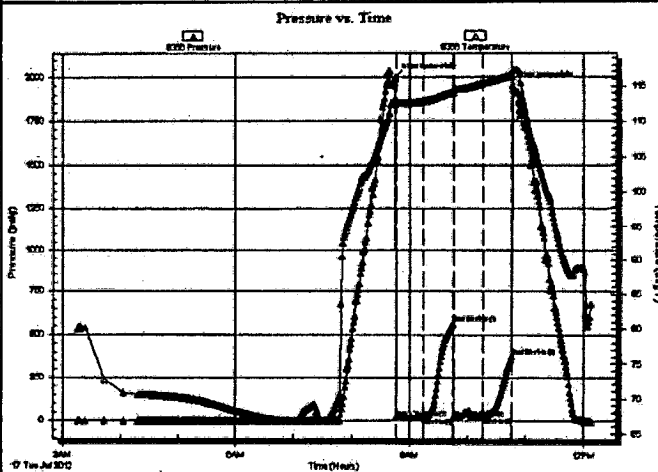
## Serial #: 8366

Inside

Press@RunDepth: 20.22 psig @ 3981.00 ft (KB)  
Start Date: 2012.07.17      End Date: 2012.07.17  
Start Time: 03:16:20      End Time: 12:08:05

Capacity: 8000.00 psig  
Last Calib.: 2012.07.17  
Time On Btm: 2012.07.17 @ 08:44:50  
Time Off Btm: 2012.07.17 @ 10:46:50

**TEST COMMENT:** FP-Weak Surface Blow  
ISI-Dead  
FFP-Dead  
FSI-Dead



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.64	113.20	Initial Hydro-static
1	15.16	112.49	Open To Flow (1)
30	18.07	112.82	Shut-In(1)
60	565.57	114.12	End Shut-In(1)
61	19.78	114.11	Open To Flow (2)
91	20.22	115.34	Shut-In(2)
121	377.72	116.49	End Shut-In(2)
122	1952.66	117.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
6.00	Mud W/Oil Specs	0.08

\* Recovery from multiple tests

## Gas Rates

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

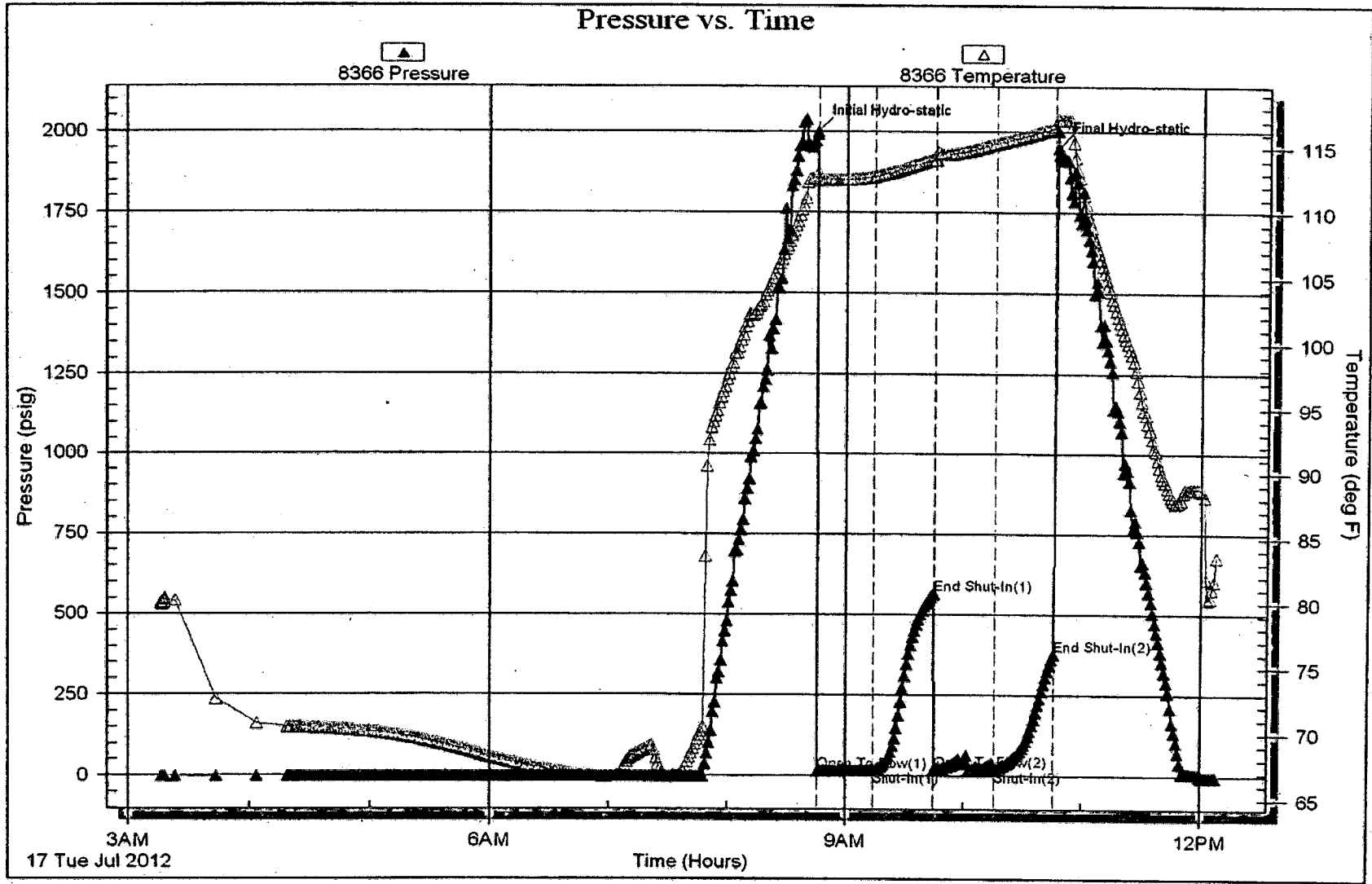


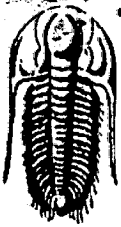
Serial #: 8366

Inside Rains & Williamson Oil Co.

Fore #6-36

DST Test Number: 2





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Rains & Williamson Oil Co.

36-9s-26w-Graham

220 W. Douglas  
Suite 110  
Wichita, KS. 67202  
ATTN: Scott Alberg

Fore #6-36

Job Ticket: 47832

DST#: 3

Test Start: 2012.07.17 @ 20:16:47

### GENERAL INFORMATION:

Formation: I-J

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 23:14:17

Time Test Ended: 03:22:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 4014.00 ft (KB) To 4058.00 ft (KB) (TVD)

Total Depth: 4058.00 ft (KB) (TVD)

Hole Diameter: 7.80 Inches Hole Condition: Good

Reference Elevations: 2621.00 ft (KB)

2614.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8366

Inside

Press@RunDepth: 20.07 psig @ 4050.00 ft (KB)

Start Date: 2012.07.17

End Date:

2012.07.18

Start Time: 20:16:47

End Time:

03:22:17

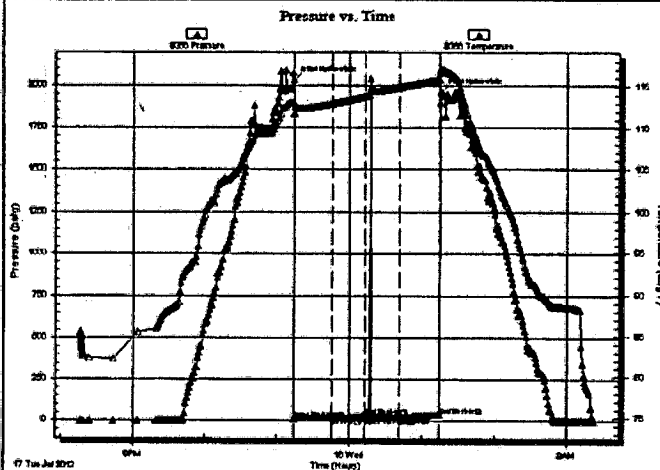
Capacity: 8000.00 psig

Last Calib.: 2012.07.18

Time On Btm: 2012.07.17 @ 23:14:02

Time Off Btm: 2012.07.18 @ 01:15:17

**TEST COMMENT:** FFP-Surge On Open, Dead After  
ISI-Dead  
FFP-dead, Flush Tool, Surge Then Dead  
FSI-Dead



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2032.13	113.11	Initial Hydro-static
1	14.65	111.80	Open To Flow (1)
32	17.42	112.93	Shut-In(1)
59	26.48	113.84	End Shut-In(1)
59	17.66	113.85	Open To Flow (2)
88	20.07	114.94	Shut-In(2)
121	36.16	115.87	End Shut-In(2)
122	1959.88	117.05	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
6.00	Drilling Mud	0.08

\* Recovery from multiple tests

### Gas Rates

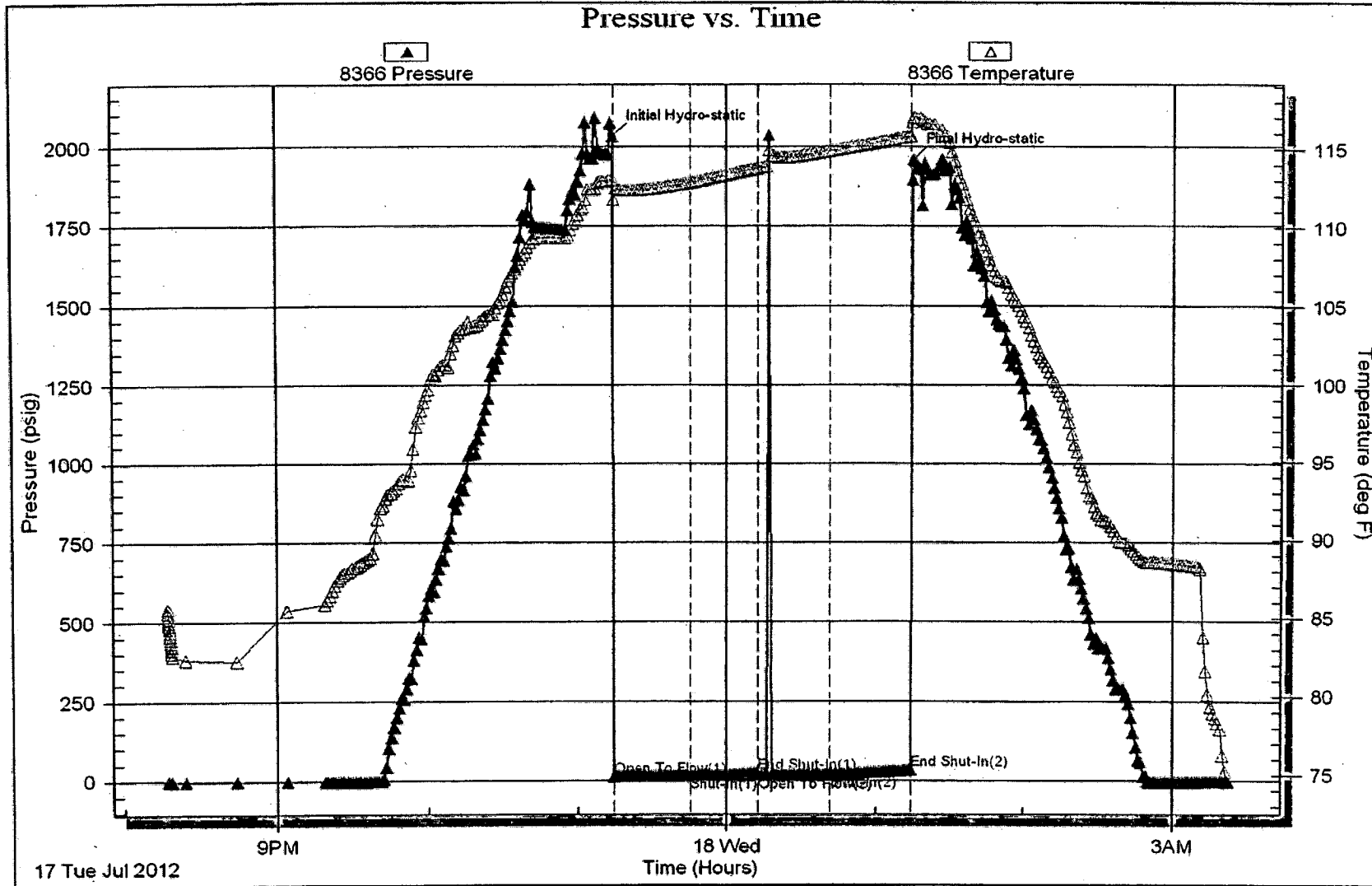
Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8366

Inside Rains & Williamson Oil Co.

Fore #6-36

DST Test Number: 3





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Rains & Williamson Oil Co.

36-9-26w-Graham

220 W. Douglas  
Suite 110  
Wichita, KS. 67202  
ATTN: Scott Alberg

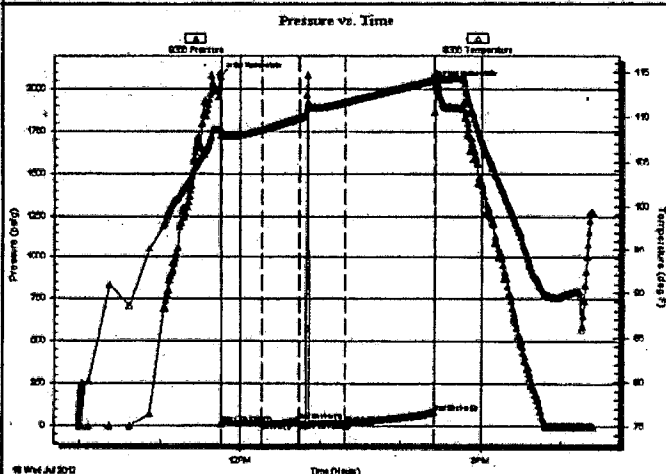
Fore #6-36  
Job Ticket: 47833      DST#: 4  
Test Start: 2012.07.18 @ 09:59:50

## GENERAL INFORMATION:

Formation: **K**  
 Deviated: **No** Whipstock: **0.00 ft (KB)**  
 Time Tool Opened: **11:45:20**  
 Time Test Ended: **16:24:20**  
 Interval: **4057.00 ft (KB) To 4080.00 ft (KB) (TVD)**  
 Total Depth: **4080.00 ft (KB) (TVD)**  
 Hole Diameter: **7.80 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Jason McLemore**  
 Unit No: **54**  
 Reference Elevations: **2621.00 ft (KB)**  
**2614.00 ft (CF)**  
**KB to GR/CF: 7.00 ft**

Serial #: **8366** Inside  
 Press@RunDepth: **17.97 psig @ 4059.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2012.07.18** End Date: **2012.07.18** Last Calib.:  
 Start Time: **09:59:50** End Time: **16:24:20** Time On Btm: **2012.07.18 @ 11:45:05**  
 Time Off Btm: **2012.07.18 @ 14:26:05**

TEST COMMENT: **IFP-Surge Upon Open, Then Dead**  
**ISI-Dead**  
**FFP-Dead, Flush Tool. Surge Then Dead**  
**FSI-Dead**



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2078.94	108.65	Initial Hydro-static
1	14.61	107.93	Open To Flow (1)
31	15.95	108.59	Shut-In(1)
59	32.96	109.86	End Shut-In(1)
60	16.43	109.89	Open To Flow (2)
94	17.97	111.64	Shut-In(2)
160	84.17	114.11	End Shut-In(2)
161	2026.91	114.86	Final Hydro-static

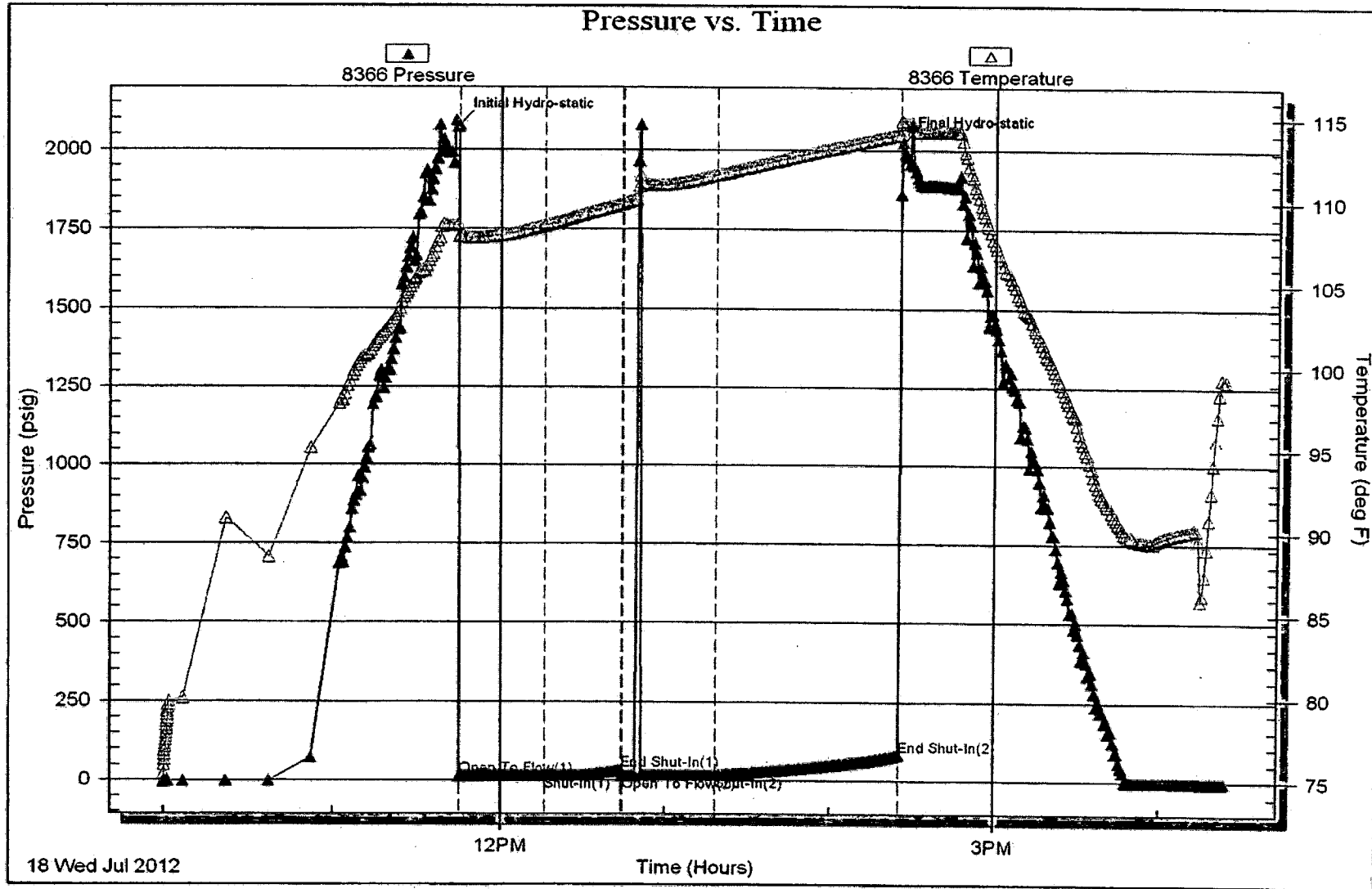
## Recovery

Length (ft)	Description	Volume (bbl)
3.00	Drilling Mud	0.04

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Rains & Williamson Oil Co.

36-9s-26w-Graham

220 W. Douglas  
Suite 110  
Wichita, KS. 67202  
ATTN: Scott Alberg

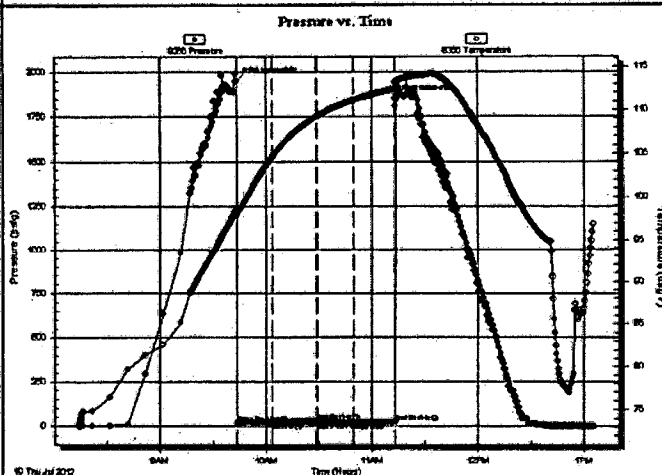
Fore #6-36  
Job Ticket: 47834      DST#: 5  
Test Start: 2012.07.19 @ 08:14:53

### GENERAL INFORMATION:

Formation: C  
Deviated: No      Whipstock: 0.00 ft (KB)  
Time Tool Opened: 09:43:38  
Time Test Ended: 13:05:23  
Interval: 3884.00 ft (KB) To 3925.00 ft (KB) (TVD)  
Total Depth: 4150.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches      Hole Condition: Good  
Test Type: Conventional Straddle (Reset)  
Tester: Jason McLemore  
Unit No: 54  
Reference Elevations: 2621.00 ft (KB)  
2614.00 ft (CF)  
KB to GR/CF: 7.00 ft

Serial #: 8366      Inside  
Press@RunDepth: 21.43 psig @ 3888.00 ft (KB)  
Start Date: 2012.07.19      End Date: 2012.07.19  
Start Time: 08:14:53      End Time: 13:05:23  
Capacity: 8000.00 psig  
Last Calib.: 2012.07.19  
Time On Btm: 2012.07.19 @ 09:43:23  
Time Off Btm: 2012.07.19 @ 11:13:53

TEST COMMENT: FFP-Weak Blow, Died in 5 Min.  
ISI-Dead  
FFP-Dead  
FSI-Dead



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1951.95	98.55	Initial Hydro-static
1	17.17	97.76	Open To Flow (1)
20	21.79	104.50	Shut-In(1)
46	23.93	109.23	End Shut-In(1)
46	20.00	109.25	Open To Flow (2)
67	21.43	111.11	Shut-In(2)
90	22.80	112.40	End Shut-In(2)
91	1847.42	113.11	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
63.00	Drilling Mud	0.88

\* Recovery from multiple tests

### Gas Rates

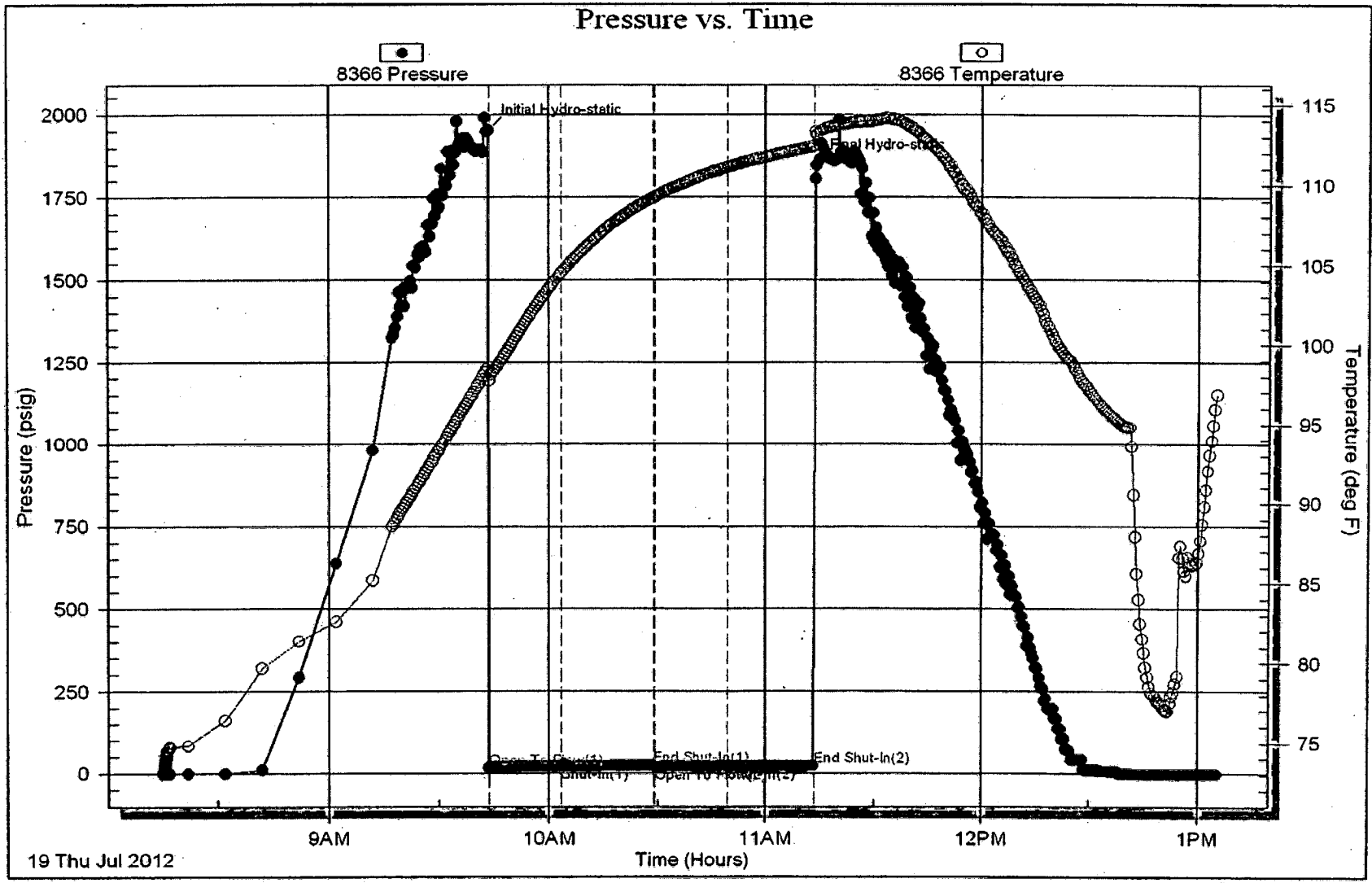
	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8366

Inside Rains & Williamson Oil Co.

Fore #6-36

DST Test Number: 5



# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

COMPANY <u>Rains &amp; Williamson Oil Co., Inc</u>	ELEVATIONS
LEASE <u>Fore 6-36</u>	KB <u>2621</u>
FIELD <u>Gra-Sher Northwest</u>	DF _____
LOCATION <u>80'S W/2 E2 NW</u>	GL <u>2614</u>
SEC <u>36</u> TWSP <u>9<sup>S</sup></u> RGE <u>26<sup>W</sup></u>	Measurements Are All From <u>Kelly Bushing</u>
COUNTY <u>Sheridan</u> STATE <u>Kansas</u>	
CONTRACTOR <u>American Eagle Drilling, Rig #2</u>	CASING SURFACE <u>8 5/8" set @ 247'</u>
SPUD <u>July 10, 2012</u> COMP <u>July 19, 2012</u>	PRODUCTION _____
RTD <u>4150</u> LTD <u>4146</u>	ELECTRICAL SURVEYS <u>Log-Tech</u> <u>CAN/COIL, MICRO, OIL</u>
MUD UP <u>2997'</u> TYPE MUD <u>Chemical</u>	

SAMPLES SAVED FROM <u>3500</u> TO <u>RTD</u>
DRILLING TIME KEPT FROM <u>3500</u> TO <u>RTD</u>
SAMPLES EXAMINED FROM <u>3500</u> TO <u>RTD</u>
GEOLOGICAL SUPERVISION FROM <u>3500</u> TO <u>RTD</u>
GEOLOGIST ON WELL <u>W. Scott Alberg</u>

FORMATION TOPS	LOG	SAMPLES	
Anhydrite	2259 (+362)	2262 (+359)	
B/Anhydrite	2293 (+328)	2301 (+320)	
Tapeksa	3615 (-994)	3620 (-999)	
Heebner	3828 (-1207)	3834 (-1213)	
Toronto	3851 (-1230)	3856 (-1035)	
Lansing	3868 (-1247)	3873 (-1252)	
200' zone	4066 (-1445)	4073 (-1452)	
B/KC	4098 (-1477)	4103 (-1482)	
RTD	4150 (-1529)	4150 (-1529)	
	4146 (-1525)		

REMARKS

Based on the results of the DST's, sample shows & log calculations, it was recommended by all parties this test well be plugged & abandoned.

Respectfully,  
*W. Scott Alberg*  
W.S.A. #54

LEGEND

	Anhydrite
	Salt
	Sandstone
	Shale
	Carbonaceous
	Limestone
	Coal/Lime
	Chert
	Dolomite

DRILLING TIME

LOG

(Logarithmic Scale)



LITHO

DEI

SAMPLE DESCRIPTIONS

REMARKS

5 1 2 3 4 5 10 15 20 30

2200

KB 2621

20

40

60

Anhydrite

2263 (+358)

e-log

2259 (+352)

80

G/Anhydrite

2300

2301 (+320)

e-log 2293 (+320)

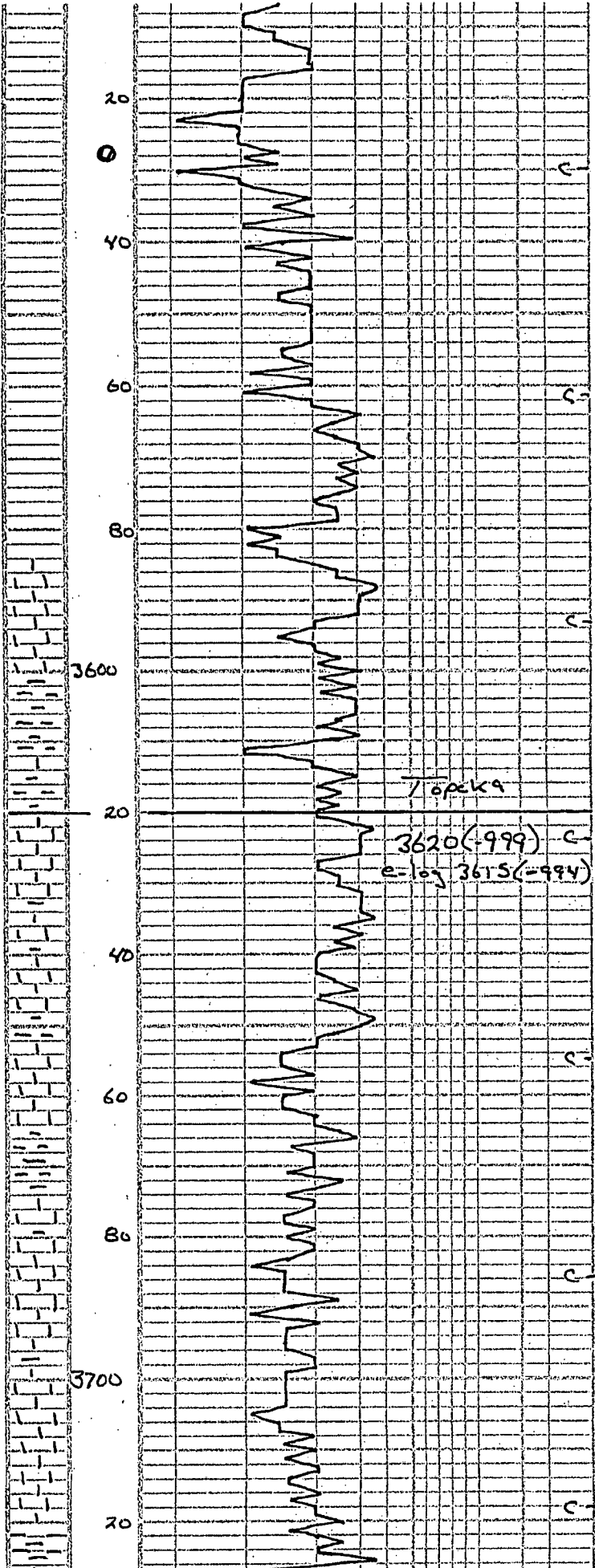
20

Bit Trap 2741.7  
Strap Pipe  
Board 2747.67  
Strap 2744.30

Strap Short 3.37'  
Survey 3/4°

3500

1



LS; crm-buff, tan, xln, foss.  
foss.  $\phi$ , sl. chalky  
sl. show oil, no odor

Shale; grey-green

LS; tan, grey, xln, dense,  
trace chalky

Shale; grey

LS; tan, buff, xln, dense  
sl. foss. + chalky

LS; grey-white, xln, dense  
foss. in pt

July 15, 2012  
3600' @ 7:00 a.m.

Shale; grey-green

Topok9

LS; crm, buff, xln,  
pl. dense,  $\phi$ ,  
sl. show dk oil, no odor

LS; crm, buff, xln, dense  
chalky

LS; crm, tan, xln, foss,  
+ foss  $\phi$ , chalky.  
N3E0

Shale; grey, reddish

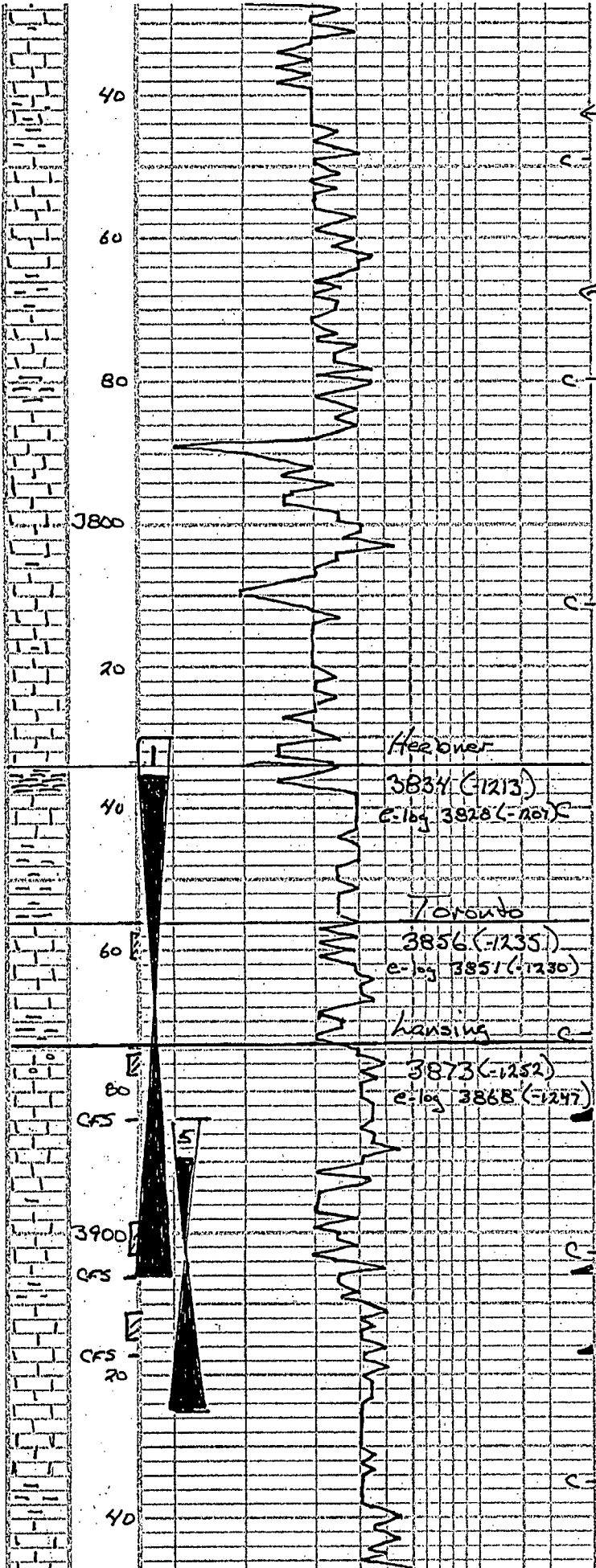
LS; buff, tan, xln, foss

Analysis Mud Ck  
7-15-12 @ 10:30am  
U.S. 55  
wt 9.1  
pH 11.5  
wt 8.0  
chl 2000  
LCM 3#

LS; cream buff, xln, dense  
chalky, sl. foss.

LS; crm, white, buff, xln, chalky  
sl. foss

Shale; dk grey



KS; grey-white, grey, xln shale

Shale, grey-green, some red-yellow

KS, grey-white, xln, dense foss.

Shale, grey, reddish

KS, grey-white, buff, xln dense, sl. chalky

KS; tan, cream, xln, oolitic, ool. moldic, barren, no odor.

Shale, lt grey

KS; grey-white, xln, sl. shale

KS; buff, cm, foss

Shale; grey-blk

KS; grey-white, xln, dense

Shale; greenish grey

KS; cm, buff, tan, xln, foss, tr. ppt, sl. some dk. asphaltic staining, sl. show oil, no odor

Shale; grey-reddish

KS; cm, tan, white, xln, tr. oolitic, tr. sl. oil, sl. show oil, dk. stain on edges, no odor, tr. chalky at base

KS; buff-white, xln, dense, sl. foss, chalky, in ppt.

Shale; grey-red

KS; cm, white, xln, foss, tr. ppt, scattered, ugs, sl. oolitic, show oil, faint odor

KS; buff-white, xln, foss, tr. ppt, xln, few small ugs, sl. show oil, faint odor

KS; cm, white, xln, dense, chalky, dk. stain

KS; cm, buff, tan, xln, mostly dense, scattered ugs, lt. stain in ugs, sl. show oil, poor odor

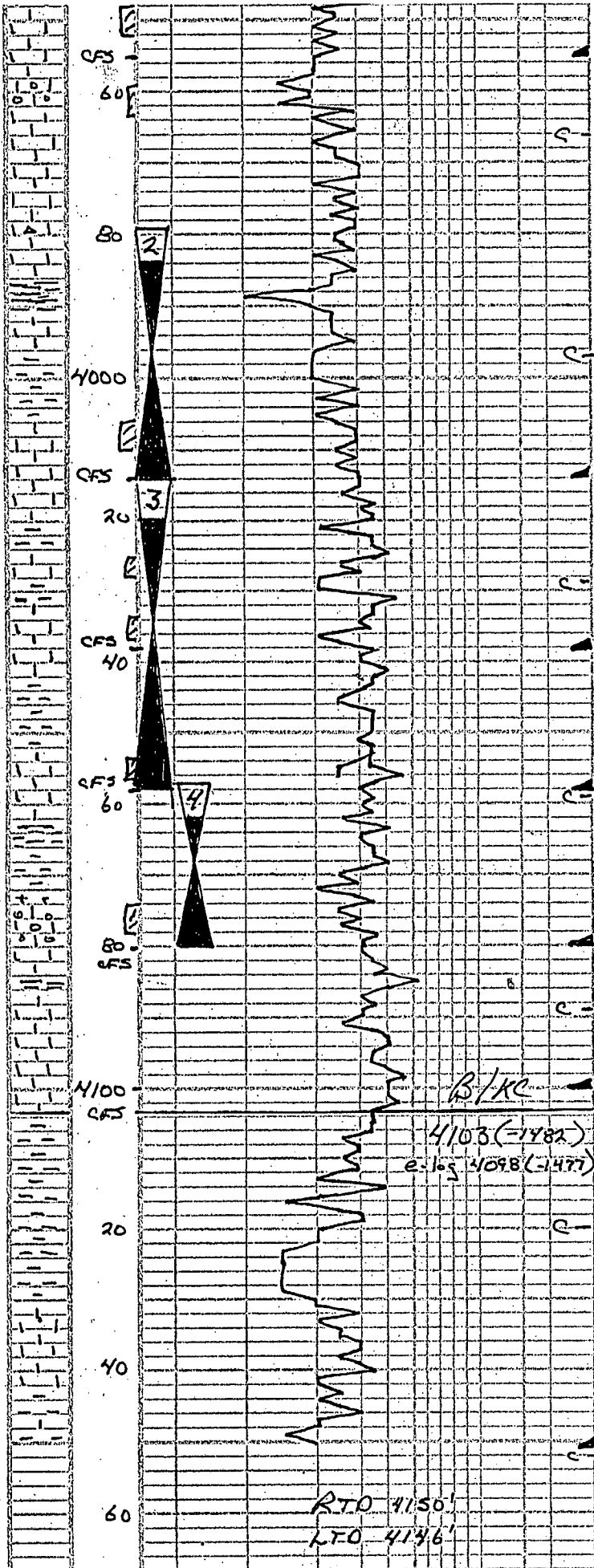
KS; white, tan, xln, dense, chalky

Geologist on location

DSR#1 3830-3906  
 Times 30-45-30-45  
 TNP 1978, FNP 1878  
 IFF 51-78 FFP 82-101  
 ISIP 922 FSIP 850  
 Recovery:  
 1st opening - 2 1/4" blow  
 no blow back  
 2nd opening 1 1/4" blow  
 no blow back  
 80' UJOCW (5% O, 95% W)  
 30' UJOCW (1% O, 59% W, 40% W)  
 Temp 118°

KO 3621

Andys Mud Co  
 3906' @ 10:30 am  
 July 16, 2012  
 UT 500  
 WT 9.2  
 PIT 10.0  
 WK 8.8  
 Ck 1-3000  
 HCM 3#  
 July 16, 2012  
 3906 @ 7:00 am  
 Board 3903.44  
 Strip 3898.36  
 other 5.08 short  
 Survey @ 3906  
 1/2 degree  
 DSR # 5 3884-3925  
 Stradelle  
 Times 15-30-15-30  
 TNP 1952, FNP 1847  
 IFF 17-22 FFP 26-21  
 ISIP 24 FSIP 23  
 Recovery:  
 1st opening - weak blow



KS; cm buff, xln foss frags, xln of show (to oil), fair odor, sl. chalky

KS; buff-white, xln, oolitic, foss frags, xln of tr. oolitic frags, show oil, fair odor

KS; cm, buff, xln, v. chalky tr. foss

KS; cm, buff, xln, chalky, tr. grey chert

Shale; grey-blk

KS; tan buff, xln, dense, sl. foss, chalky

KS; cm, buff, xln, foss frags tr. xln of, trace vng of, poor odor, sl. show oil

KS; buff-white, xln, dense sl. foss, chalky imp.

Shale; reddish, green

KS; tan buff, xln, xln of, poor of, show oil, faint odor, some fossils, brown staining

Shale; grey, reddish brown

KS; buff-white, xln, foss, tr. scattered xln of small vngs, it spotted, staining show oil, faint odor

Shale; grey-blk, reddish brown

KS; buff, tan-white, xln, oolitic, interolitic of, some vngs, fair show oil, fair odor, it staining

Shale; red-green-blk

KS; buff, cream-white, xln, dense tr. foss, chalky, asphaltic, fair, no odor, no show free oil

Shale; reddish brown, green calcitic

Shale; reddish brown, some vari-colored, green

KS; buff, xln, dense, tr. foss

2nd opening <sup>died</sup> no blow  
63' Drilling Mud

OST#2 3979-4014  
Times 30-30-30-30  
IHP 2002 FHP 1953  
IFP 15-18 FFP 20-20  
ISIP 566 FSIP 378  
Recovery:  
1st opening - weak surface  
no blow back  
2nd opening - no blow  
no blow back  
6' Mud w/oil specks  
Temp 117°

July 17, 2012  
4014 @ 7:00 a.m.

Andys Mud Ck  
7-17-12 4014 @ 11:00 a.m.  
U15.53 WL 9.6  
WT 9.5 CHL 3000  
PH 10.0 LCM 3#

OST#3 4014-4058  
Times 30-30-30-30  
IHP 2032 FHP 1960  
IFP 15-17 FFP 18-20  
ISIP 26 FSIP 36  
Recovery:  
1st opening - surge,  
then died  
no blow back  
2nd opening - no blow  
flushed tool no help  
no blow back  
6' Mud Temp 117°

July 18, 2012  
4064 @ 7:00 a.m.

OST#4 4057-4080  
Times 30-30-30-30  
IHP 2079 FHP 2027  
IFP 15-16 FFP 16-18  
ISIP 33 FSIP 84  
Recovery:  
1st opening - weak blow  
died  
no blow back  
2nd opening - no blow  
flushed tool  
no help  
no blow back  
3' Only Mud Temp 115°

Andys Mud Ck  
July 18, 2012  
4080 @ 10:00 a.m.  
U15.57 WL 8.8  
WT 9.5 CHL 2000  
PH 10.0 LCM 3#  
Survey @ 4150  
10