



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 # \_\_\_\_\_

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: \_\_\_\_\_



1091005

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
---	---

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	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 056709

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Mohave

DATE <u>7-19-12</u>	SEC <u>36</u>	TWP <u>25</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION	JOB START <u>10:00</u>	JOB FINISH <u>11:00 pm</u>
LEASE <u>Kore</u>	WELL # <u>6-36</u>	LOCATION <u>St Peter 3N 4 3/4 W</u>				COUNTY <u>Sheridan</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>			<u>S into</u>				

CONTRACTOR American Eagle #2  
 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 \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_

OWNER same 1.03  
 CEMENT AMOUNT ORDERED 205 sks 6 1/4" 4 1/2" gel  
4 Flo-seal  
 COMMON 123 sks @ 16.25 1998.25  
 POZMIX 82.5 sks @ 8.50 698.25  
 GEL 7 sks @ 21.25 148.75  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
Flo-seal 51" @ 2.70 137.70  
 HANDLING 200 sks @ 2.10 420.00  
 MILEAGE 2.35 707/mile 9.193 707 1296.21  
 TOTAL 4740.26

**EQUIPMENT**

PUMP TRUCK CEMENTER Andrew Forlund  
 # 431 HELPER Dane Retzlaff  
 BULK TRUCK DRIVER Jeremy Sterger  
 # 347  
 BULK TRUCK DRIVER \_\_\_\_\_  
 # \_\_\_\_\_

**REMARKS:**

25 sks @ 2290'  
100 sks @ 1339'  
40 sks @ 300'  
10 sks @ 40'  
30 sks Ref hole

thank you

CHARGE TO: Rains + Williams oil co  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**SERVICE**

DEPTH OF JOB 2290'  
 PUMP TRUCK CHARGE \_\_\_\_\_ 1250.00  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 60 miles @ 2.00 120.00  
 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 20 1348.55 IF PAID IN 30 DAYS

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)**

Reference Elevations: 2621.00 ft (KB)

Total Depth: 3906.00 ft (KB) (TVD)

2614.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

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

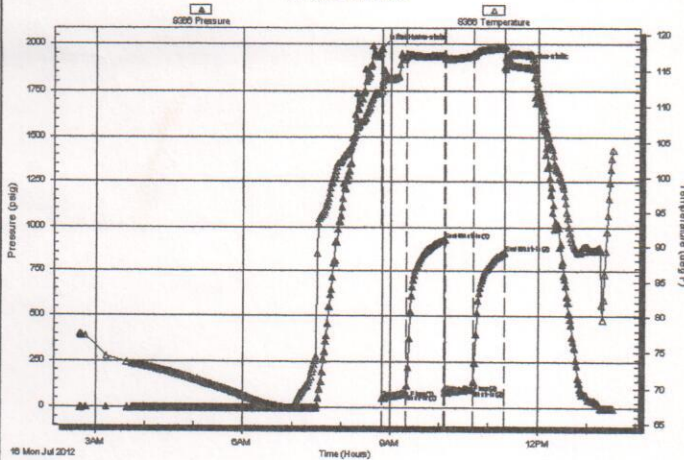
**TEST COMMENT:** IFP-Weak Blow, Built to 2-3/4"

ISI-Dead

FFP-Weak Blow, Built to 1-1/4"

FSI-Dead

Pressure vs. Time



**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	VSOCMV-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

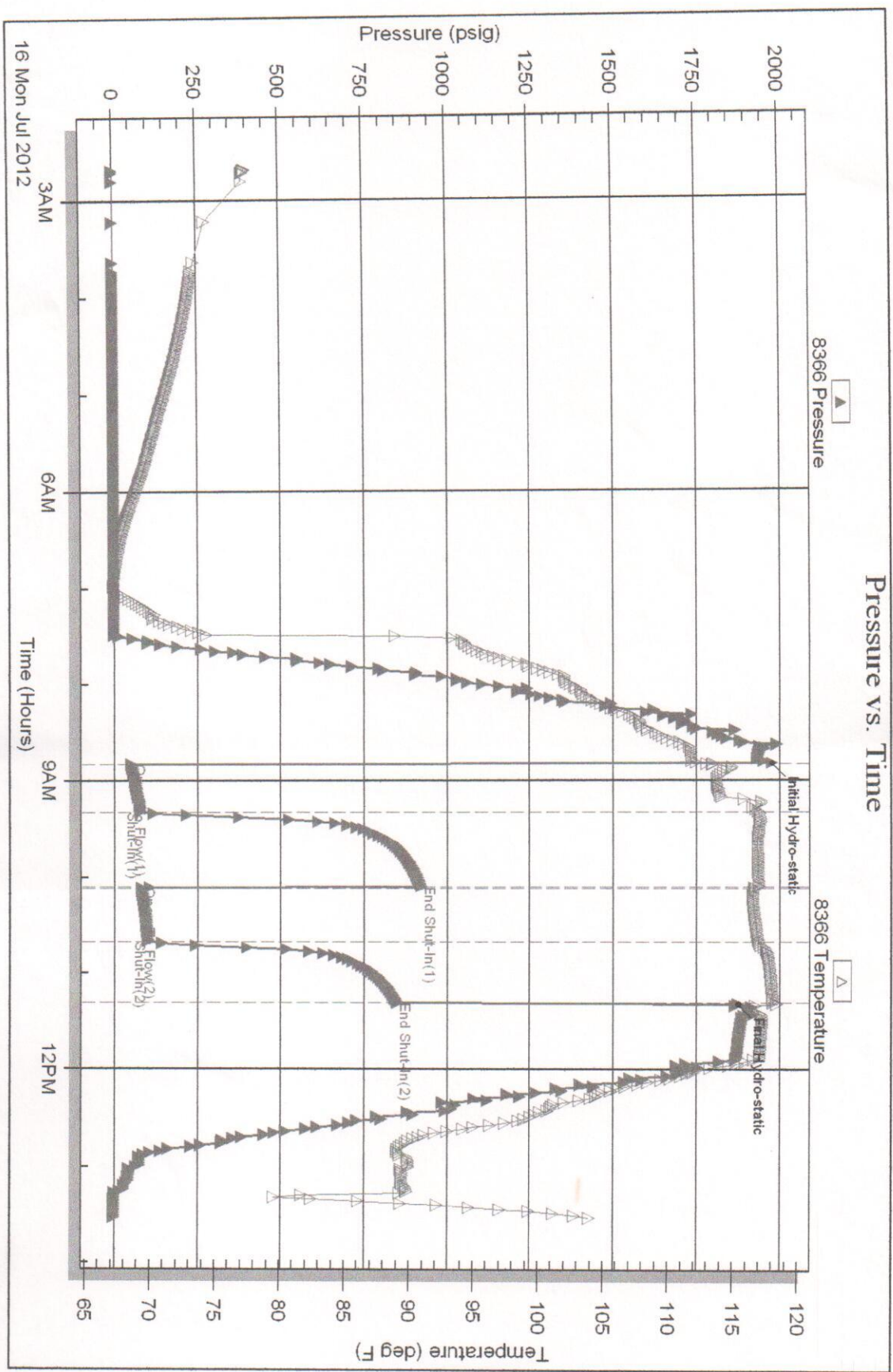
Inside

Rains & Williamson Oil Co.

Fore #6-36

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 47830

Printed: 2012.07.16 @ 13:49:30



**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: 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**

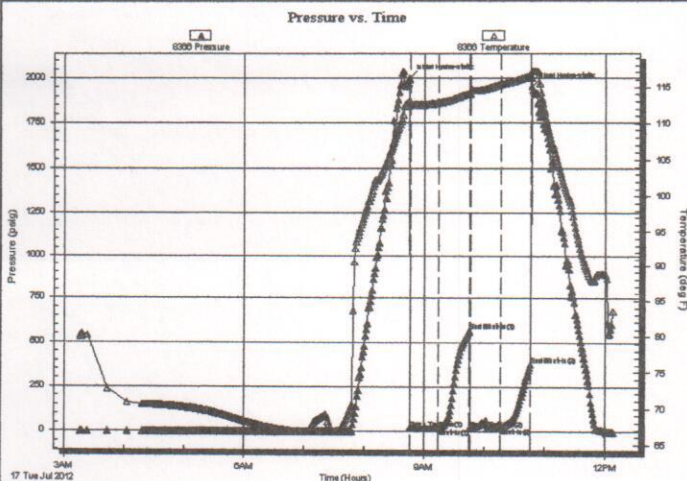
## Serial #: 8366

## 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 Btrr: **2012.07.17 @ 08:44:50**  
Time Off Btrr: **2012.07.17 @ 10:46:50**

TEST COMMENT: **IFP-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 Specks	0.08

\* Recovery from multiple tests

## Gas Rates

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



Serial #: 8366

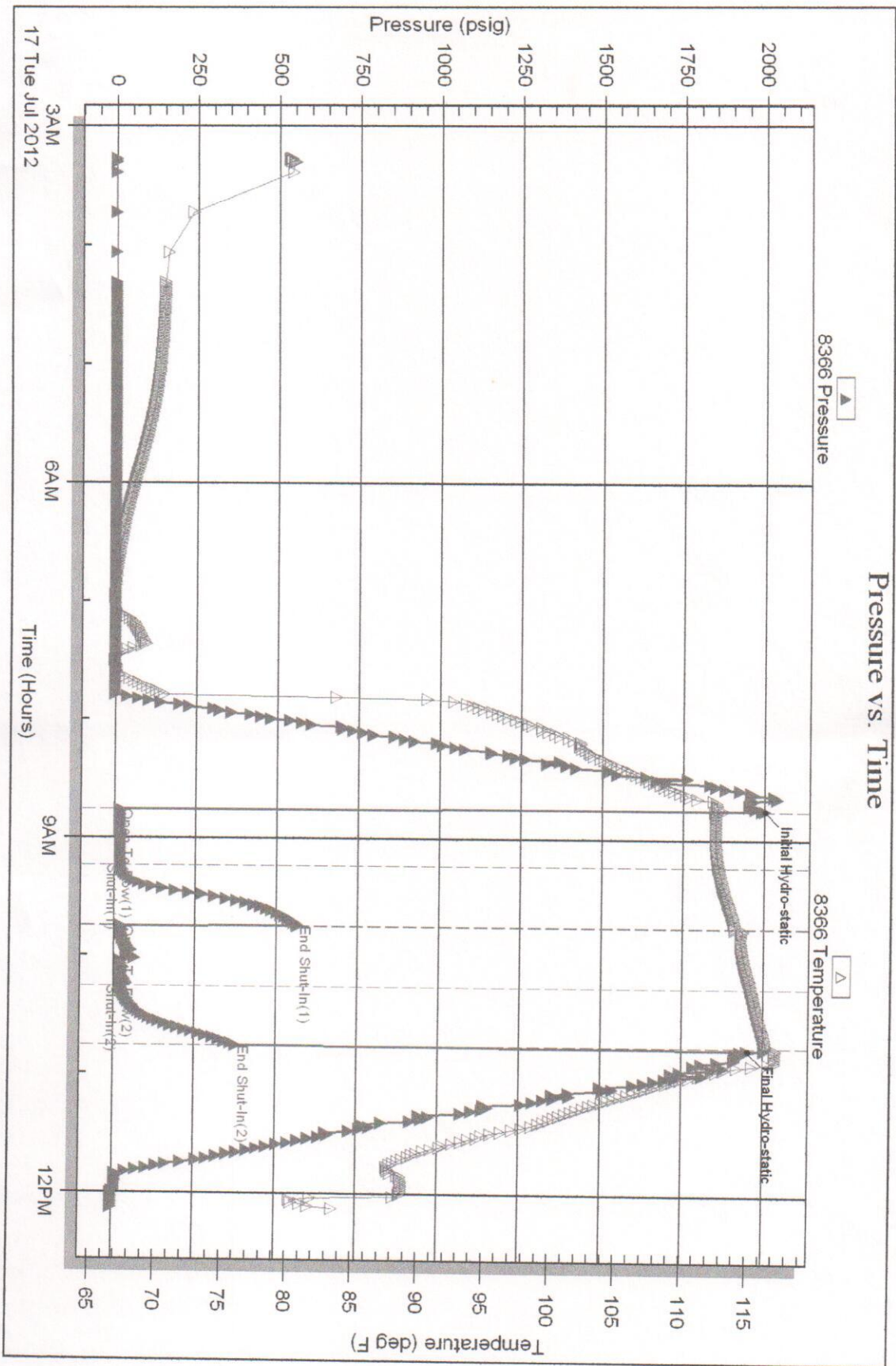
Inside

Rains & Williamson Oil Co.

Fore #6-36

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 47831

Printed: 2012.07.17 @ 12:17:13



**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

Capacity: 8000.00 psig

Last Calib.: 2012.07.18

Start Time: 20:16:47

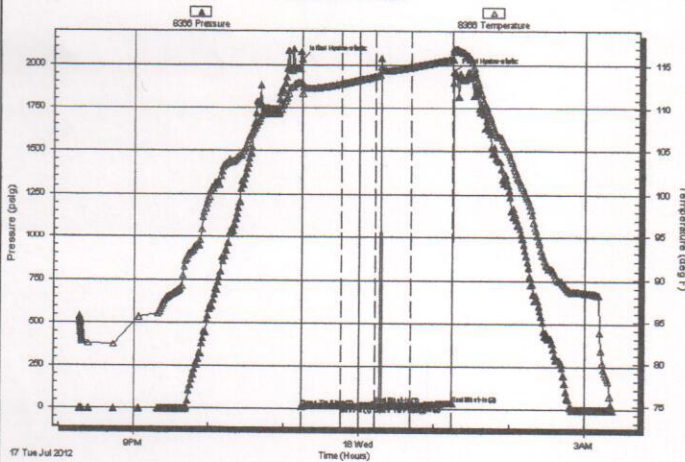
End Time: 03:22:17

Time On Btm: 2012.07.17 @ 23:14:02

Time Off Btm: 2012.07.18 @ 01:15:17

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

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	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

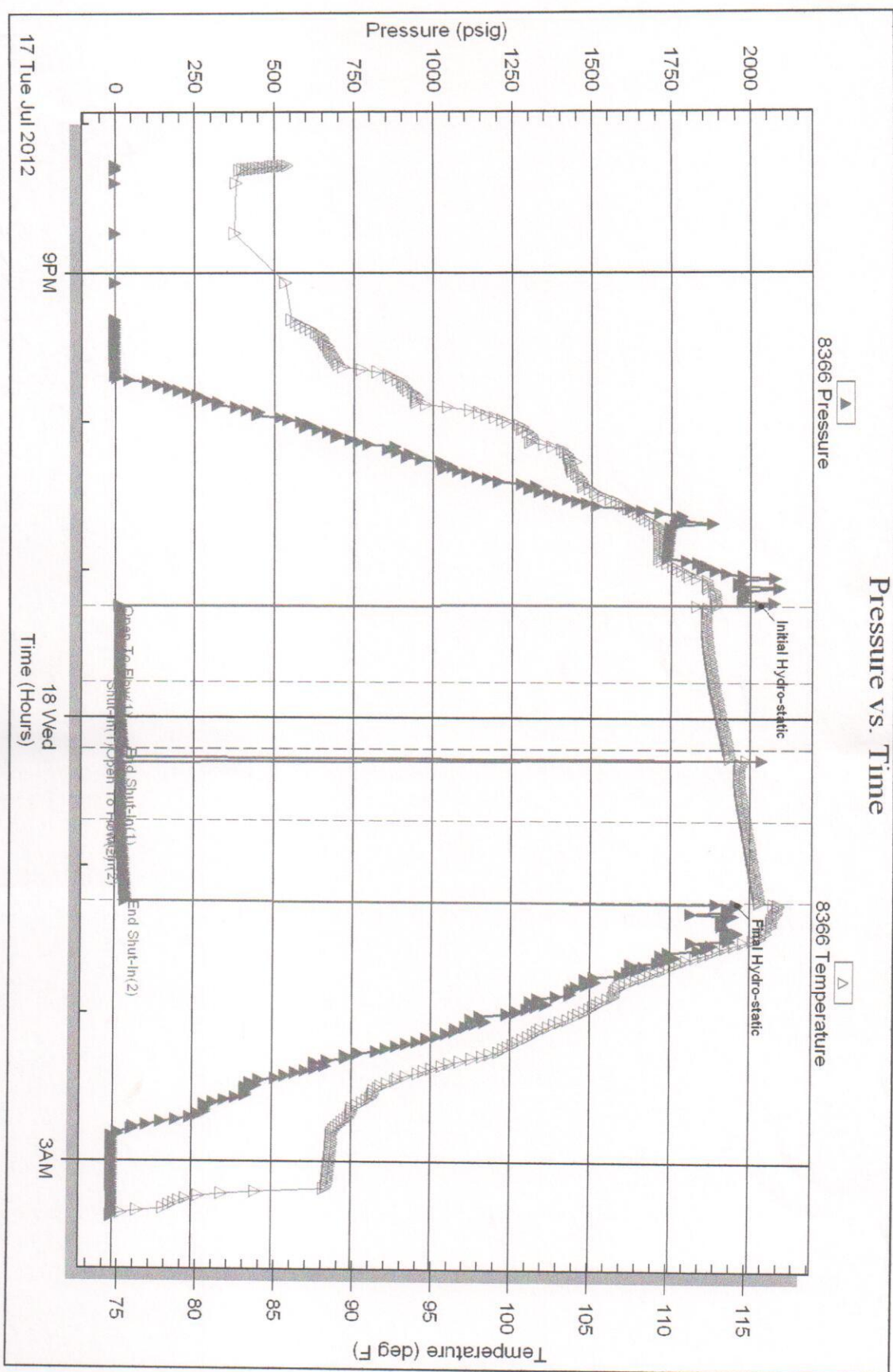
Inside

Rains & Williamson Oil Co.

Fore #6-36

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 47832

Printed: 2012.07.18 @ 03:30:59



**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: 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**

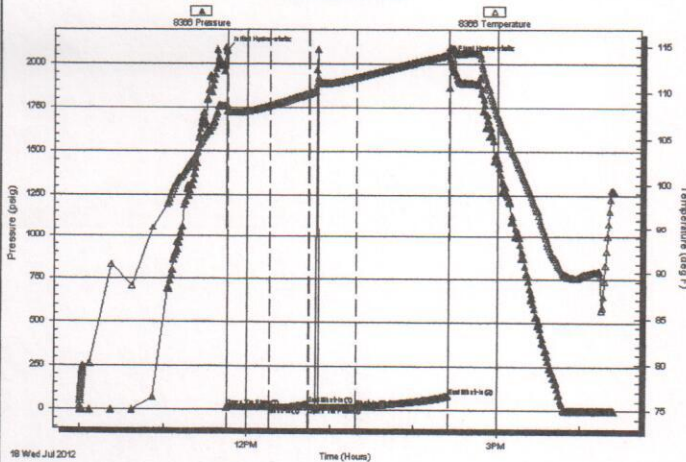
## Serial #: 8366

## Inside

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

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

Pressure vs. Time



## 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)

Serial #: 8366

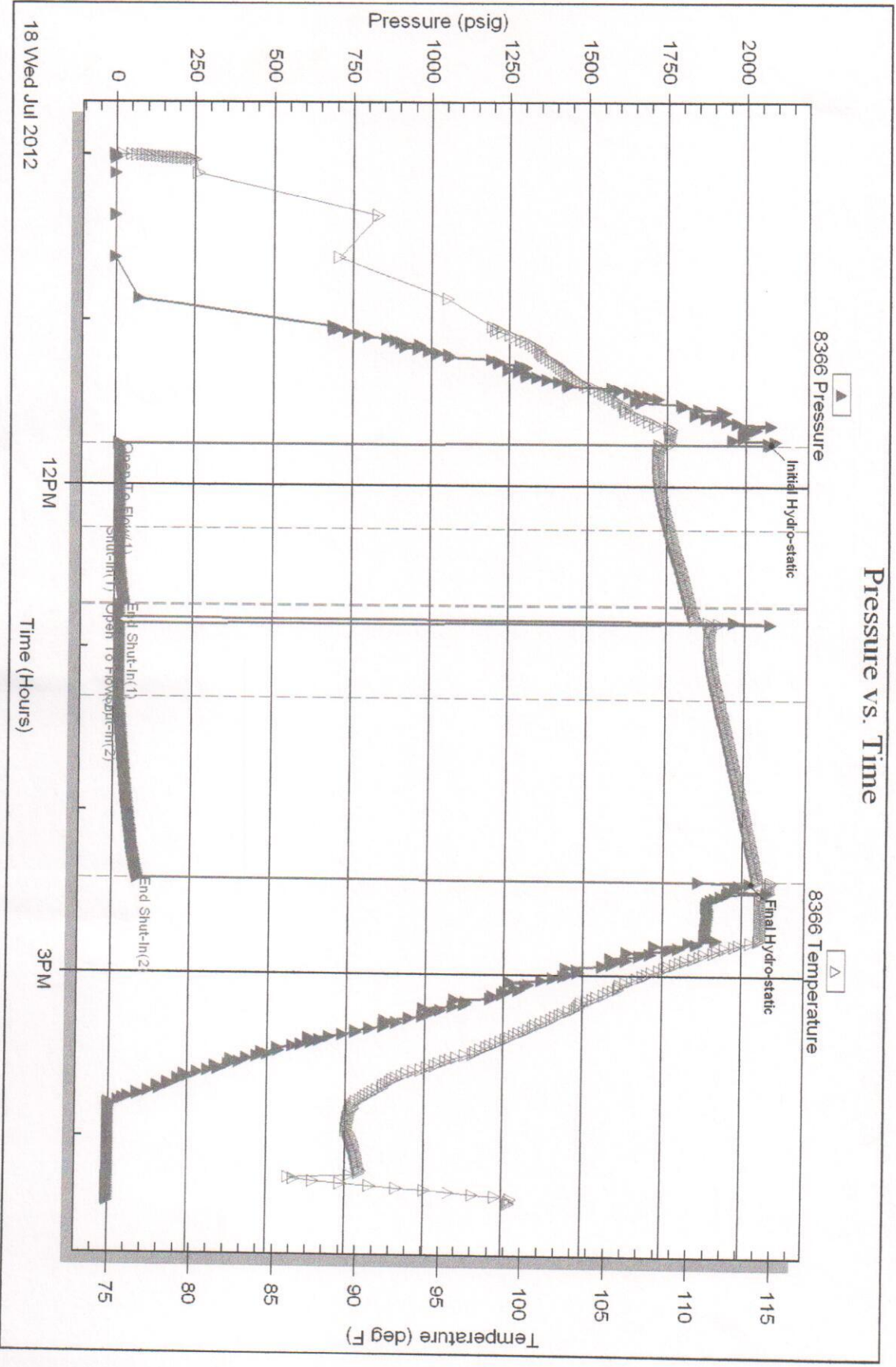
Inside

Rains & Williamson Oil Co.

For #6-36

DST Test Number: 4

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 47833

Printed: 2012.07.18 @ 16:34:50



**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

Test Type: **Conventional Straddle (Reset)**  
Tester: **Jason McLemore**  
Unit No: **54**

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**

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

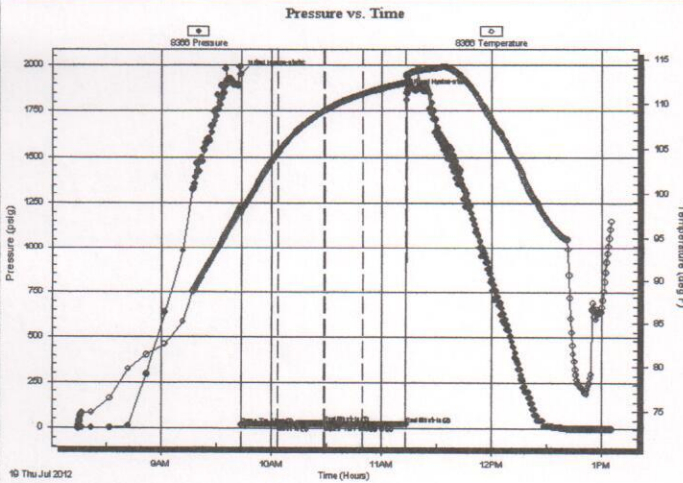
## Serial #: 8366

## 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 Btrr: **2012.07.19 @ 09:43:23**  
Time Off Btrr: **2012.07.19 @ 11:13:53**

TEST COMMENT: **IFP-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

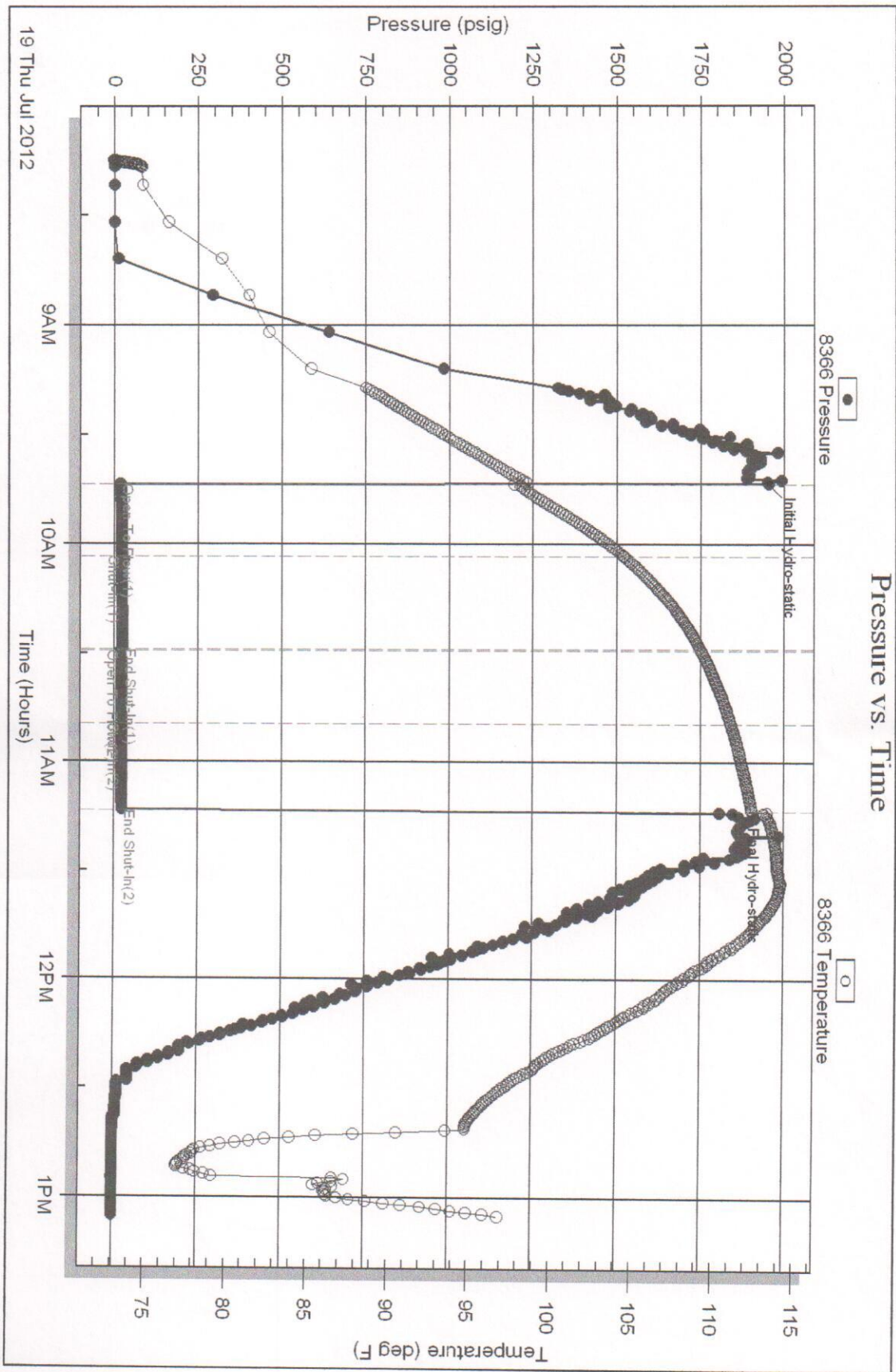
InstId: Inside

Rains & Williamson Oil Co.

Fore #6-36

DST Test Number: 5

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 47834

Printed: 2012.07.19 @ 13:24:46

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Rains & Williamson Oil Co., Inc

LEASE Fore 6-36

FIELD Gra-Sher Northwest

LOCATION 80'S W/2 E2 NW

SEC 36 TWP 9 S RGE 26 W

COUNTY Sheridan STATE Kansas

CONTRACTOR American Eagle Drilling, Rig #2

SPUD July 19, 2012 COMP July 19, 2012

RTD 4150 LTD 4146

MUD UP 2997' TYPE MUD Chemical

ELEVATIONS

KB 2621

DF

GL 2614

Measurements Are All From Kelly Bushings

CASING SURFACE 8 5/8" set @ 247'

PRODUCTION

ELECTRICAL SURVEYS  
Log Tech  
CML/CO2, MICRO, OIL

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 W. Scott Alberg

FORMATION TOPS LOG SAMPLES

<u>Anhydrite</u>	<u>2259 (+1362)</u>	<u>2262 (+359)</u>
<u>B/Anhydrite</u>	<u>2293 (+328)</u>	<u>2301 (+330)</u>
<u>Lopoka</u>	<u>3615 (-994)</u>	<u>3620 (-999)</u>
<u>Heebner</u>	<u>3828 (-1207)</u>	<u>3834 (-1213)</u>
<u>Tohonto</u>	<u>3851 (-1230)</u>	<u>3856 (-1035)</u>
<u>Lansing</u>	<u>3868 (-1247)</u>	<u>3873 (-1252)</u>
<u>300' zone</u>	<u>4066 (-1445)</u>	<u>4073 (-1452)</u>
<u>B/KC</u>	<u>4098 (-1477)</u>	<u>4103 (-1482)</u>
<u>RTD</u>	<u>4146 (-1525)</u>	<u>4150 (-1529)</u>


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*  
#54

## LEGEND

Anhydrite	Salt	Sandstone	Shale	Carbon	Limestone	Coal/Lime	Chert	Dolomite

DRILLING TIME  
Logarithmic Scale)

File

LOGID



LITHO

DE

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 (+362)

80

B/Anhydrite

2300

2301 (+320)

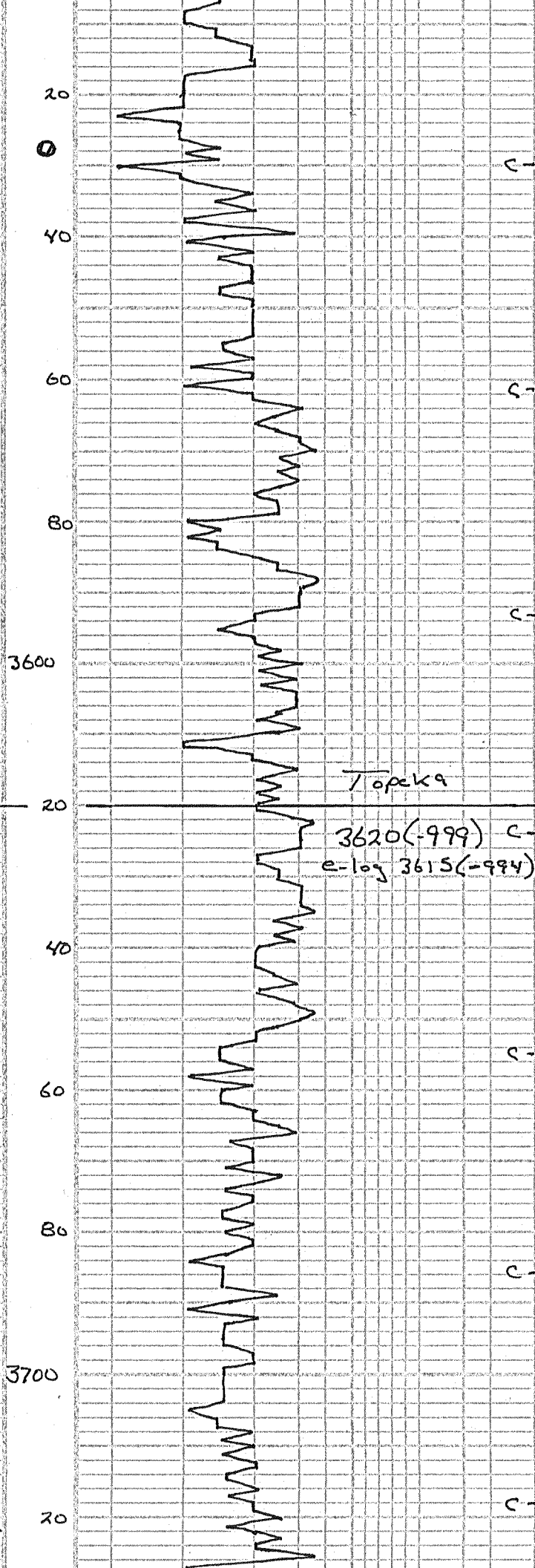
e-log 2293 (+320)

20

Bit Trap 2747  
Strap Pipe  
Board 2747.67  
Strap 2744.30

Strap Short 3.37'  
Survey 3/4°

3500



LS; cream-buff, tan, xln, foss.  
foss φ, sl. chalky, U.  
sl. show oil, no odor

Shale; grey, green

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

Shale; grey

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

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

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

Shale; grey-green

Topack9

3620(-999) c-  
e-log 3615(-994) ○

LS; cream, buff, xln,  
partly dense, oolitic,  
tr. col. nodules &  
sl. show dk oil, no odor

LS; cream, buff, xln, dense  
chalky

LS; cream, tan, xln, foss,  
tr. foss φ, chalky,  
NSFO

Shale; grey, reddish

LS; buff, tan, xln, foss

Andy's Mud Ck  
7-15-12 @ 10:30am

U1555

wt 9.1

pH 11.5

wt 8.0

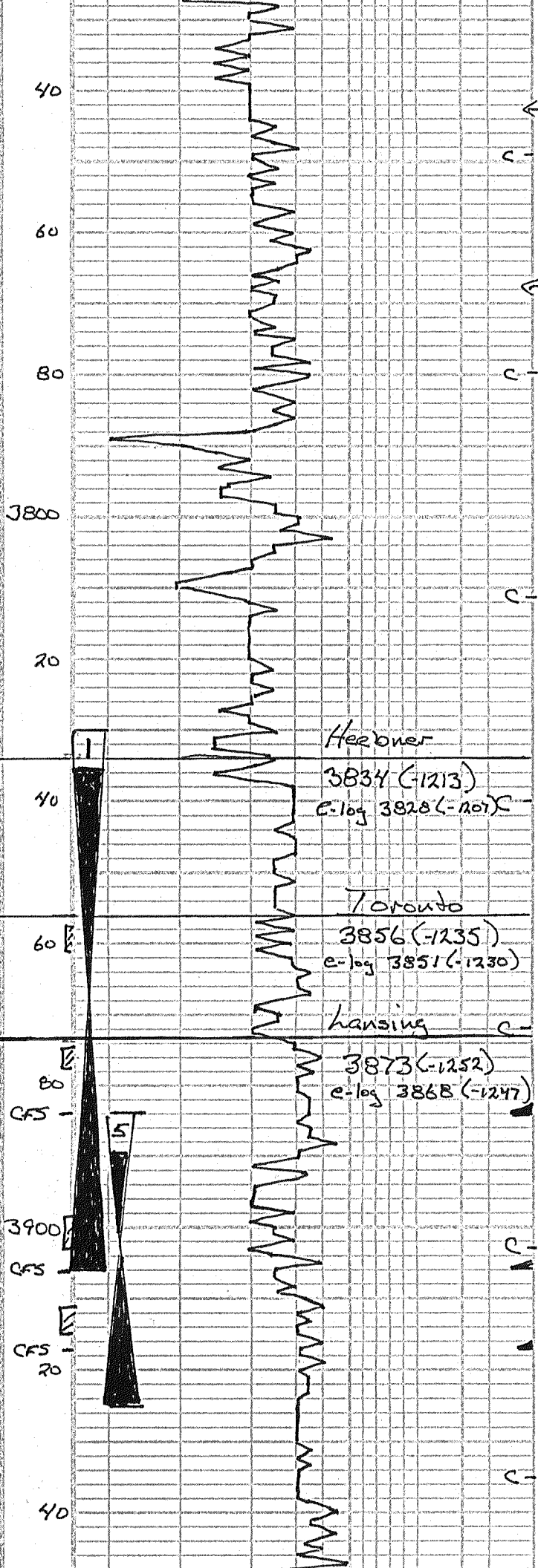
chl 2000

LCM 3#

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

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

Shale; dk grey



LS; grey-white, grey, xln shaley

Shale; grey-green, some red-yellow

LS; grey-white, xln, dense foss.

Shale; grey, reddish

LS; grey-white, buff, xln dense, sl. chalking

LS; tan, cream, xln, oolitic, oolitic, barren, no odor

Shale; lt grey

LS; grey-white, xln, sl. shaley

LS; buff, cream, foss

Shale; grey-blk

LS; grey-white, xln, dense

Shale; greenish grey

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

Shale; grey-reddish

LS; cream, tan, white, xln, tr. oolitic, tr. sl. oil, sl. show oil, dk stain on edges, no odor, tr. chalking at base

LS; buff-white, xln, dense, sl. foss. chalking in ppt.

Shale; grey-red

LS; cream-white, xln, foss, tr. foss scattered vugs, sl. oolitic, show oil, faint odor

LS; buff-white, xln, foss frags xln, few small vugs, sl. show oil, faint odor

LS; cream-white, xln, dense chalking, dk stain

LS; cream buff, tan, xln, mostly dense, scattered vugs, lt. stain, no vugs, sl. show oil, poor odor

LS; white, tan, xln, dense, chalking

Geologist on location

DSR#1 3830-3906  
 Times 30-45-30-45  
 IHP 1978 FHP 1978  
 IEP 51-78 FFP 82-101  
 ISIP 922 FSIP 850

Recovery:  
 1st opening - 2 3/4" blow  
 no blow back  
 2nd opening 1 1/4" blow  
 no blow back  
 80' USOCM (5% O, 95% W)  
 30' USOCWM (1% O, 59% W, 40% M)  
 Temp 118°

KB 2621

Andy's Mud Ck  
 3906 @ 10:30 am  
 July 16, 2012  
 UT 560  
 wt 9.2  
 pit 10.0  
 W/L 8.8  
 Chl 3000  
 HCM 3"

July 16, 2012  
 3906 @ 7:00 am  
 Board 3903.44  
 Strap 3898.36  
 strap 5.08 short  
 Survey @ 3906  
 1/2 degree

DSR # 5 3884-3925  
 Straddle  
 Times 15-30-15-30  
 IHP 1952 FHP 1847  
 IEP 17-22 FFP 20-21  
 ISIP 24 FSIP 23

Recovery:  
 1st opening - weak blow

2nd opening - 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 no blow  
2nd opening - no blow  
no blow back  
6' Mud w/ w. 3 pecks  
Temp 117°

July 17, 2012  
4014 @ 7:00 a.m.  
Andy's Mud Ck  
7-17-12 4014 @ 11:00 am  
U13.53 W L 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 diech  
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' DMG Mud Temp 115°

Andy's Mud Ck  
July 18, 2012  
4080 @ 10:00 am  
U13.57 W L 8.8  
wt 9.5 CHL 2000  
PH 10.0 LCM 3#  
Survey @ 4150  
10

KS; crm, buff, xln, foss frags,  
xln  $\phi$ , show (f oil), fair  
odor, sl. chalky

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

KS; crm, white, xln, v. chalky  
tr foss

KS; crm, buff, xln, chalky,  
tr grey chalk

Shale; grey - blk  
KS; tan, buff, xln, dense, sl.  
foss. chalky

KS; crm, buff, xln, foss frags  
tr xln  $\phi$ , trace ugs  $\phi$   
poor odor, sl. show oil

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

Shale; reddish, grey

KS; tan, buff, xln, xln  $\phi$ ,  
foss, show oil, faint  
odor, some fossils, brown  
staining

Shale; grey, reddish brown

KS; buff-white, xln, foss. tr.  
scattered xln  $\phi$ , small  
ugs, tr. spotted staining  
show oil, faint odor

Shale; grey - blk, reddish brown

KS; buff, tan-white, xln, oolitic,  
interoolitic  $\phi$ , some ugs, fair  
show oil, fair odor, tr  
staining

Shale; red-grey - blk

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

Shale; reddish brown, green  
calcitic

Shale; reddish brown, some  
vari-colored, green

KS; buff, xln, dense,  
tr foss.



B/KC  
4103 (-1482)  
e-log 4098 (-1477)

RTD 4150'  
LTD 4146'

