



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1091573
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1091573

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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
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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 <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 34488
LOCATION Ortney
FOREMAN Fuzz

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-17-12	7158	Edee 18-1	18	20	35w	Wichita
CUSTOMER Raymond Oil Co.			PS			
MAILING ADDRESS			marionetta			
CITY			11 1/2 W.W.			
STATE			TRUCK #			
ZIP CODE			DRIVER			
			TRUCK #			
			DRIVER			

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 265' CASING SIZE & WEIGHT 8 5/8
CASING DEPTH 265' DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.7 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT in CASING 20'
DISPLACEMENT 15.6 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on H₂S. Rig up and circulate. Mix 225 sacks
Class A 3070 cc 200 gal Displace 15 1/2 sacks + slug in. Cement
did circulate approx 4 sacks to pit.

Thanks Fuzz & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085 ⁰⁰	1085 ⁰⁰
5406	60	MILEAGE	502	300 ⁰⁰
5407A	10.6 ton	Tow mileage delivery	167	1062 ⁰⁰
11046	225 sacks	Class A Cement	1765	3971 ²⁵
1102	635 ⁰⁰	Calcium chloride	.89	565 ¹⁵
1118B	425 ⁰⁰	Bentonite	.25	106 ²⁵
		sub total		7089 ⁶⁵
		less 10%		708 ⁹⁷
		sub total		6380 ⁶⁸
		SALES TAX		346 ⁸¹
		ESTIMATED TOTAL		6727 ⁴⁹

Ravin 3737

AUTHORIZATION Steven Craig TITLE TOOLPUSHER DATE 5-17-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 33988

LOCATION Oakley

FOREMAN Walt Dunkel

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-1-12	7158	Eder 18 #1	18	20 ^s	35 ^w	Wichita
CUSTOMER Raymond Oil Co			Marquette			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			11 1/2	458-T118	milas skaw	
STATE			W.S.	528-T127		
ZIP CODE				528-T127	Cody Roots	

JOB TYPE DTA HOLE SIZE _____ HOLE DEPTH 5071' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 x H TUBING _____ OTHER _____
 SLURRY WEIGHT 13.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Manung, Rig up on Ho #2, Plug as ordered

50 sks @ 2280'
80 sks @ 1180'
50 sks @ 560' 300 sks 69/40 per, 4% Gel 1/8" # Flo - Seal
50 sks @ 290'
20 sks @ 60'
20 sks in MA
30 sks in RH

Thank You
Walt + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1,325 ⁰⁰	1,325 ⁰⁰
5406	60	MILEAGE	5 ⁰⁰	300 ⁰⁰
1131	300 sks	69/40 per	15 ¹⁰	4,530 ⁰⁰
1118B	1032 #	Gel	1.25	2,580 ⁰⁰
1107	75 #	Flo Seal	2 ⁸²	211 ⁵⁰
5407A	12.9	Tan mileage Delivery	167	1,292 ⁴⁰
				7,916 ⁹⁰
		Less 10% Disc		- 791 ⁶⁰
				7,125 ³⁰
		SALES TAX		373.45
		ESTIMATED TOTAL		7,498.65

AVIN 3737
 AUTHORIZATION Steven Craig TITLE TOOL PUSHER DATE 6-1-12
 250302

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 23, 2012

Ted McHenry
Raymond Oil Company, Inc.
PO BOX 48788
WICHITA, KS 67202-1822

Re: ACO1
API 15-203-20179-00-00
Eder 18 1
NE/4 Sec.18-20S-35W
Wichita County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Ted McHenry



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Comp
 p.o.box 48788
 Wichita, Ks
 67201
 ATTN: Max Lovely

18-20s-35w Wichita, Ks

Eder #1

Job Ticket: 48253

DST#: 1

Test Start: 2012.05.27 @ 08:10:57

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 10:40:57

Time Test Ended: 17:50:12

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 4464.00 ft (KB) To 4490.00 ft (KB) (TVD)

Reference Elevations: 3159.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

3149.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8368 Inside

Press @ Run Depth: 61.18 psig @ 4465.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.27 End Date: 2012.05.27

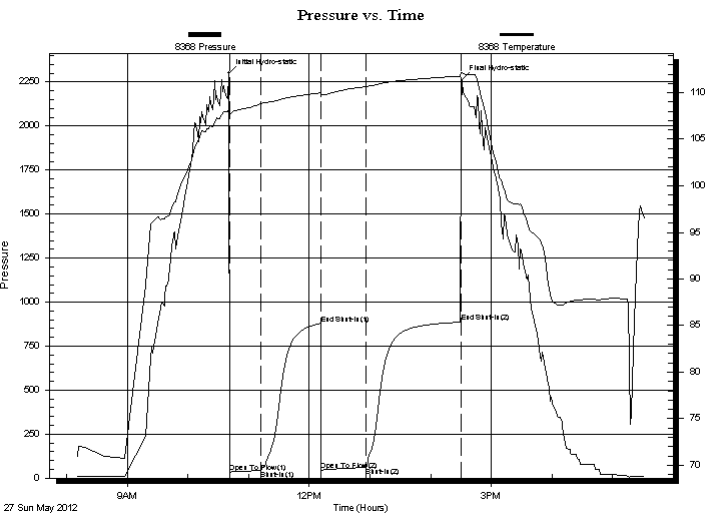
Last Calib.: 2012.05.27

Start Time: 08:10:57 End Time: 17:32:12

Time On Btm: 2012.05.27 @ 10:40:27

Time Off Btm: 2012.05.27 @ 14:30:57

TEST COMMENT: 3" in blow
 No return
 1 1/2" in blow
 No return



PRESSURE SUMMARY

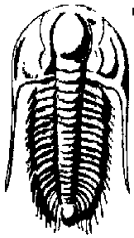
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.64	108.13	Initial Hydro-static
1	30.67	107.19	Open To Flow (1)
32	43.89	108.80	Shut-In(1)
91	877.97	109.97	End Shut-In(1)
91	46.80	109.59	Open To Flow (2)
135	61.18	110.63	Shut-In(2)
230	885.68	111.77	End Shut-In(2)
231	2262.03	112.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	free oil trace of gas 100%o	0.12
40.00	o c m trace of gas 40%o 60%m	0.20

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Comp
 p.o.box 48788
 Wichita, Ks
 67201
 ATTN: Max Lovely

18-20s-35w Wichita, Ks

Eder #1

Job Ticket: 48253

DST#: 1

Test Start: 2012.05.27 @ 08:10:57

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 10:40:57

Time Test Ended: 17:50:12

Interval: 4464.00 ft (KB) To 4490.00 ft (KB) (TVD)

Total Depth: 4490.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Reference Elevations: 3159.00 ft (KB)

3149.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6771 Outside

Press @ Run Depth: psig @ 4465.00 ft (KB)

Start Date: 2012.05.27 End Date: 2012.05.27

Start Time: 08:10:39 End Time: 17:31:54

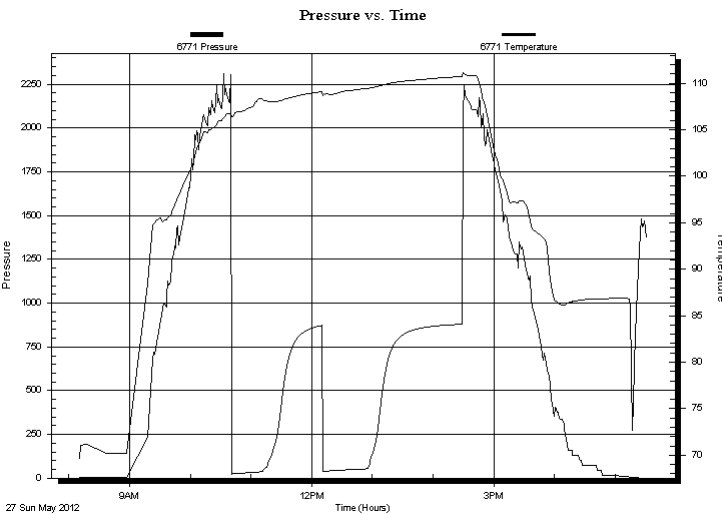
Capacity: 8000.00 psig

Last Calib.: 2012.05.27

Time On Btm:

Time Off Btm:

TEST COMMENT: 3" in blow
 No return
 1 1/2" in blow
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
25.00	free oil trace of gas 100%o	0.12
40.00	o c m trace of gas 40%o 60%m	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Comp

18-20s-35w Wichita, Ks

p.o.box 48788
Wichita, Ks
67201

Eder #1

Job Ticket: 48253

DST#: 1

ATTN: Max Lovely

Test Start: 2012.05.27 @ 08:10:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	free oil trace of gas 100%o	0.123
40.00	o c m trace of gas 40%o 60%m	0.197

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: gas in pipe ? 50mph winds no way to tell.

Serial #: 8368

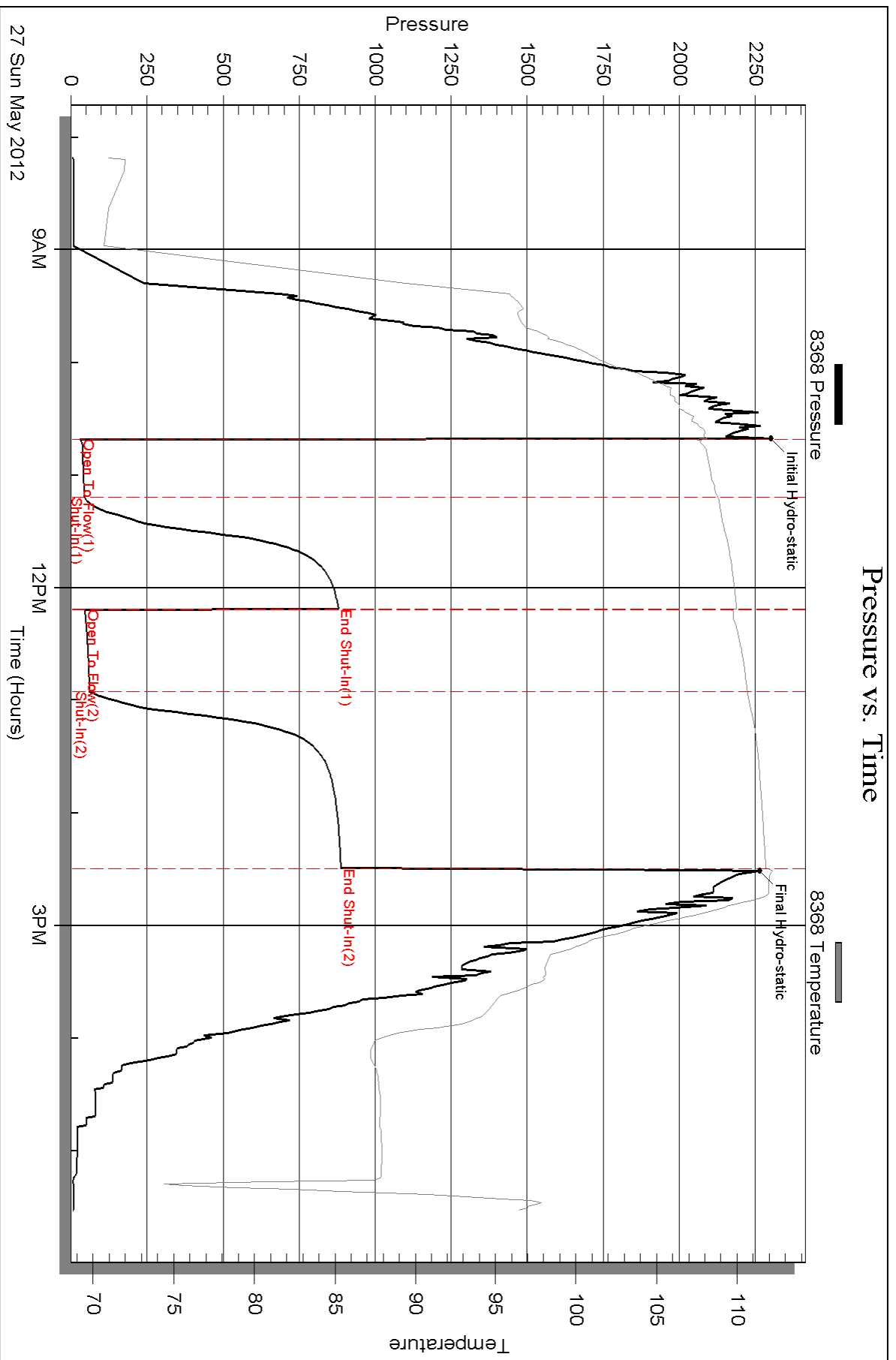
Inside

Raymond Oil Comp

Eder #1

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48253

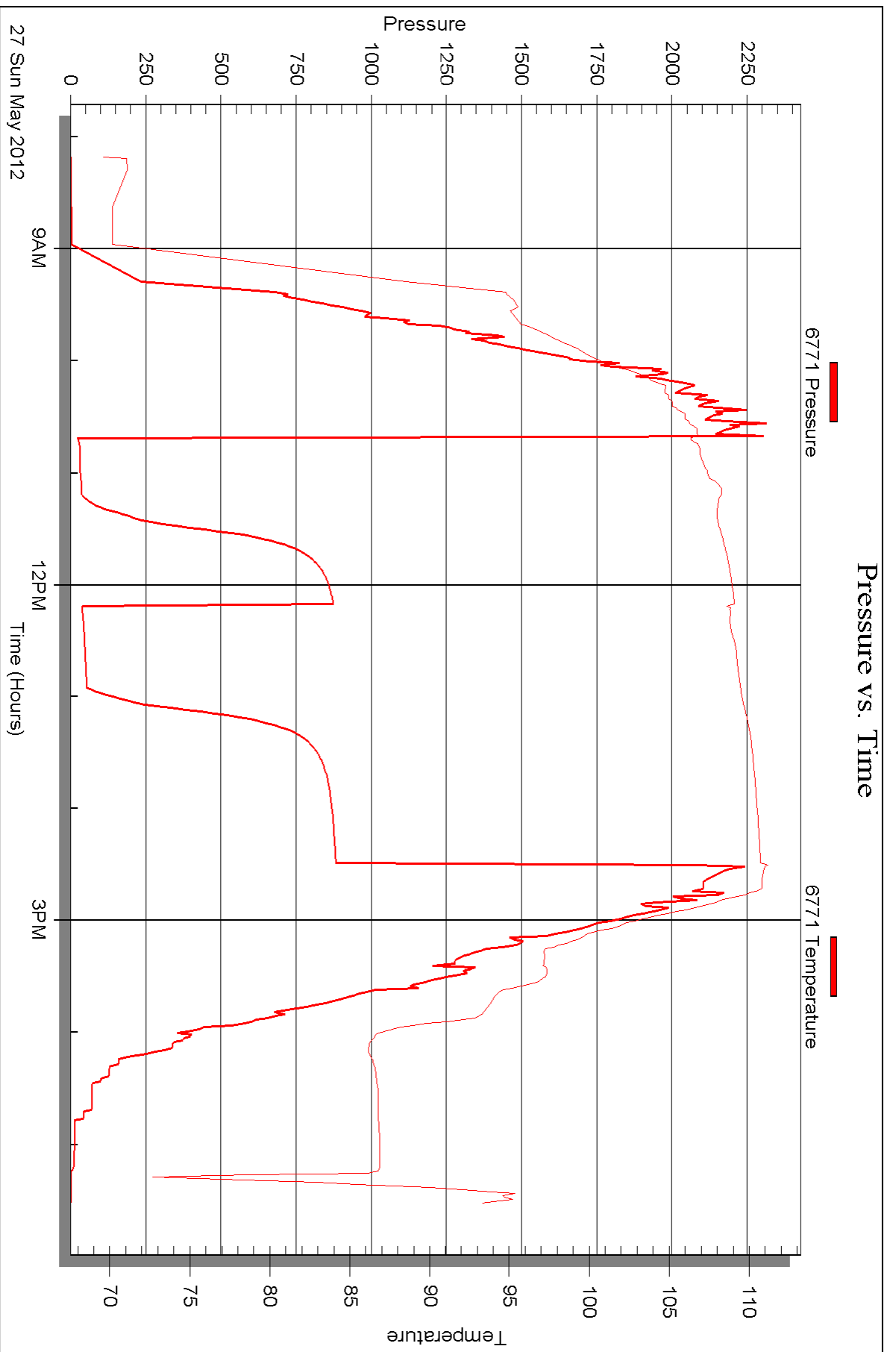
Printed: 2012.05.28 @ 17:53:34

Serial #: 6771

Outside Raymond Oil Comp

Eder #1

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Comp
p.o.box 48788
Wichita, Ks
67201
ATTN: Max Lovely

18-20s-35w Wichita, Ks

Eder #1

Job Ticket: 48254

DST#: 2

Test Start: 2012.05.28 @ 05:45:41

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 09:08:41

Time Test Ended: 16:10:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4490.00 ft (KB) To 4506.00 ft (KB) (TVD)

Total Depth: 4506.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3159.00 ft (KB)

3149.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8368

Inside

Press @ RunDepth: 672.39 psig @ 4491.00 ft (KB)

Start Date: 2012.05.28

End Date: 2012.05.28

Start Time: 05:45:41

End Time: 15:55:56

Capacity: 8000.00 psig

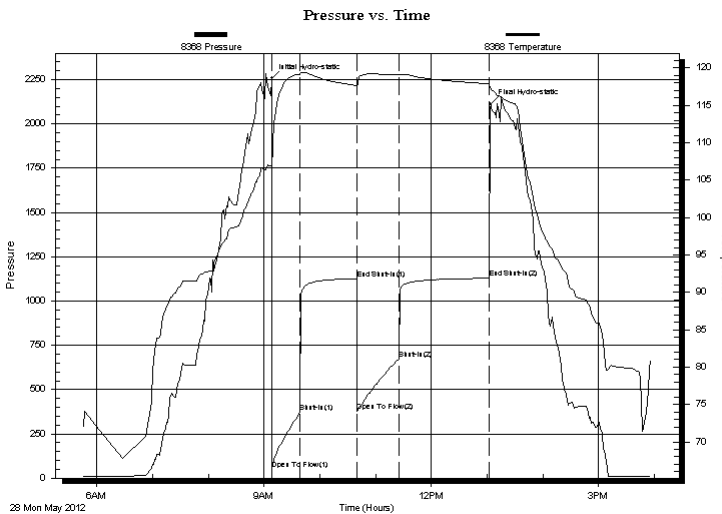
Last Calib.: 2012.05.28

Time On Btm: 2012.05.28 @ 09:08:26

Time Off Btm: 2012.05.28 @ 13:03:56

TEST COMMENT: B.O.B. in 6 1/2 min.
1/4" in return died in 48 min.
B.O.B. in 8 min.
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2256.43	106.83	Initial Hydro-static
1	50.30	106.11	Open To Flow (1)
31	371.84	119.21	Shut-In(1)
92	1127.45	117.69	End Shut-In(1)
92	378.87	117.40	Open To Flow (2)
137	672.39	119.09	Shut-In(2)
234	1128.75	117.91	End Shut-In(2)
236	2111.96	117.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	water under circ sub 100%w	0.59
1200.00	water reversed out 100%w	15.73
120.00	s m c w 10% m 90% w	1.68

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Comp

p.o.box 48788
Wichita, Ks
67201
ATTN: Max Lovely

18-20s-35w Wichita, Ks

Eder #1

Job Ticket: 48254 **DST#: 2**
Test Start: 2012.05.28 @ 05:45:41

GENERAL INFORMATION:

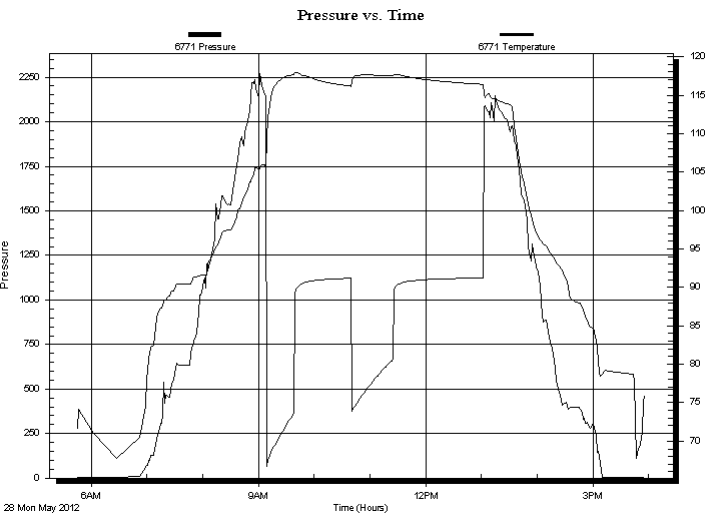
Formation: **Marmaton**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 09:08:41
 Time Test Ended: 16:10:56
Interval: 4490.00 ft (KB) To 4506.00 ft (KB) (TVD)
 Total Depth: 4506.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3159.00 ft (KB)
 3149.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 6771

Outside

Press @ Run Depth: psig @ 4491.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.05.28 End Date: 2012.05.28 Last Calib.: 2012.05.28
 Start Time: 05:45:27 End Time: 15:55:42 Time On Btm:
 Time Off Btm:

TEST COMMENT: B.O.B. in 6 1/2 min.
 1/4" in return died in 48 min.
 B.O.B. in 8 min.
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	water under circ sub 100%w	0.59
1200.00	water reversed out 100%w	15.73
120.00	s m c w 10% m 90% w	1.68

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Comp

18-20s-35w Wichita, Ks

p.o.box 48788
Wichita, Ks
67201

Eder #1

Job Ticket: 48254

DST#: 2

ATTN: Max Lovely

Test Start: 2012.05.28 @ 05:45:41

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

39000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.93 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	water under circ sub 100%w	0.590
1200.00	water reversed out 100%w	15.731
120.00	s m c w 10% m 90% w	1.683

Total Length: 1440.00 ft Total Volume: 18.004 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw .142 @ 88*f = 39,000 chlor

Serial #: 8368

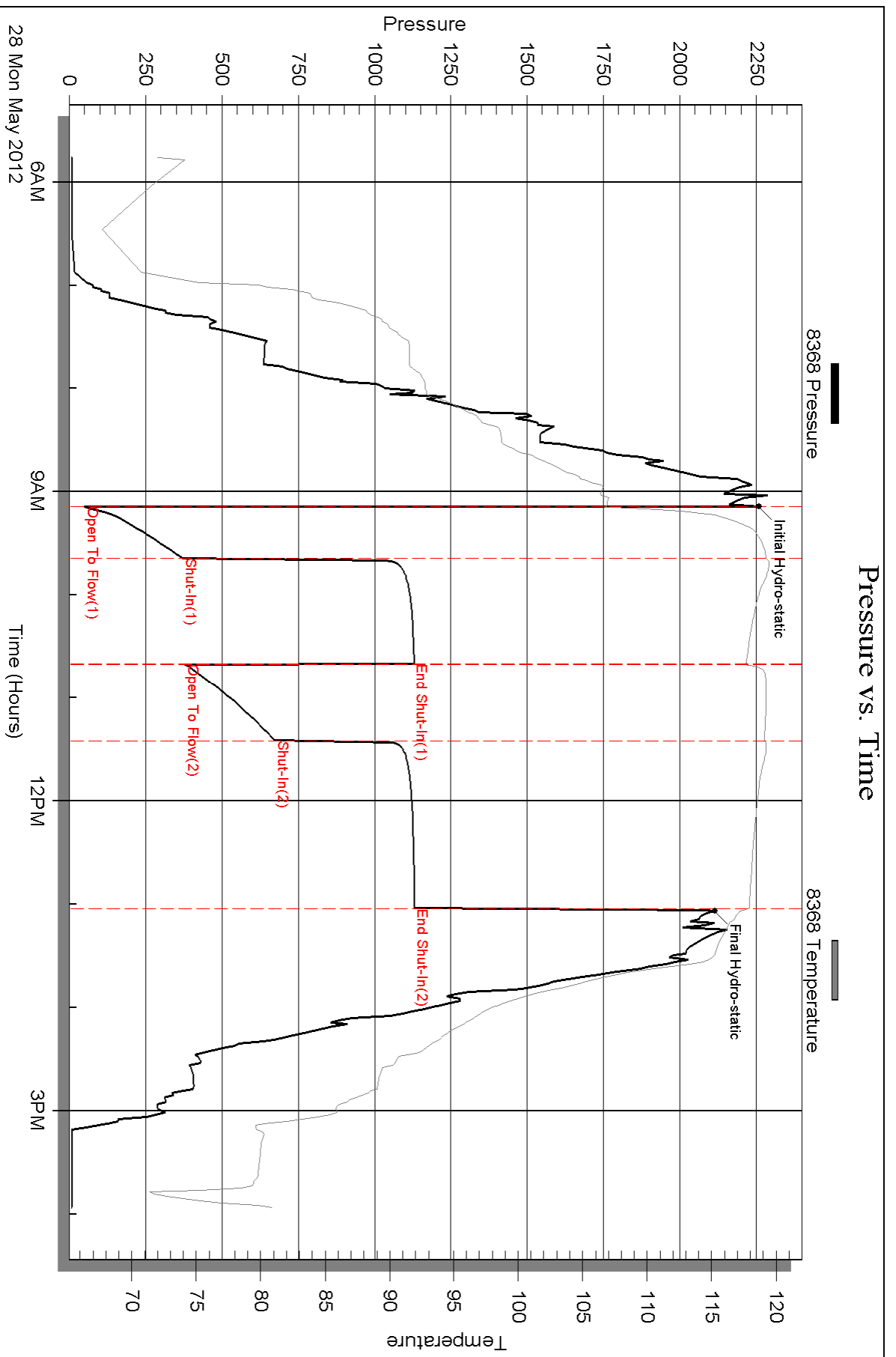
Inside

Raymond Oil Comp

Eder #1

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48254

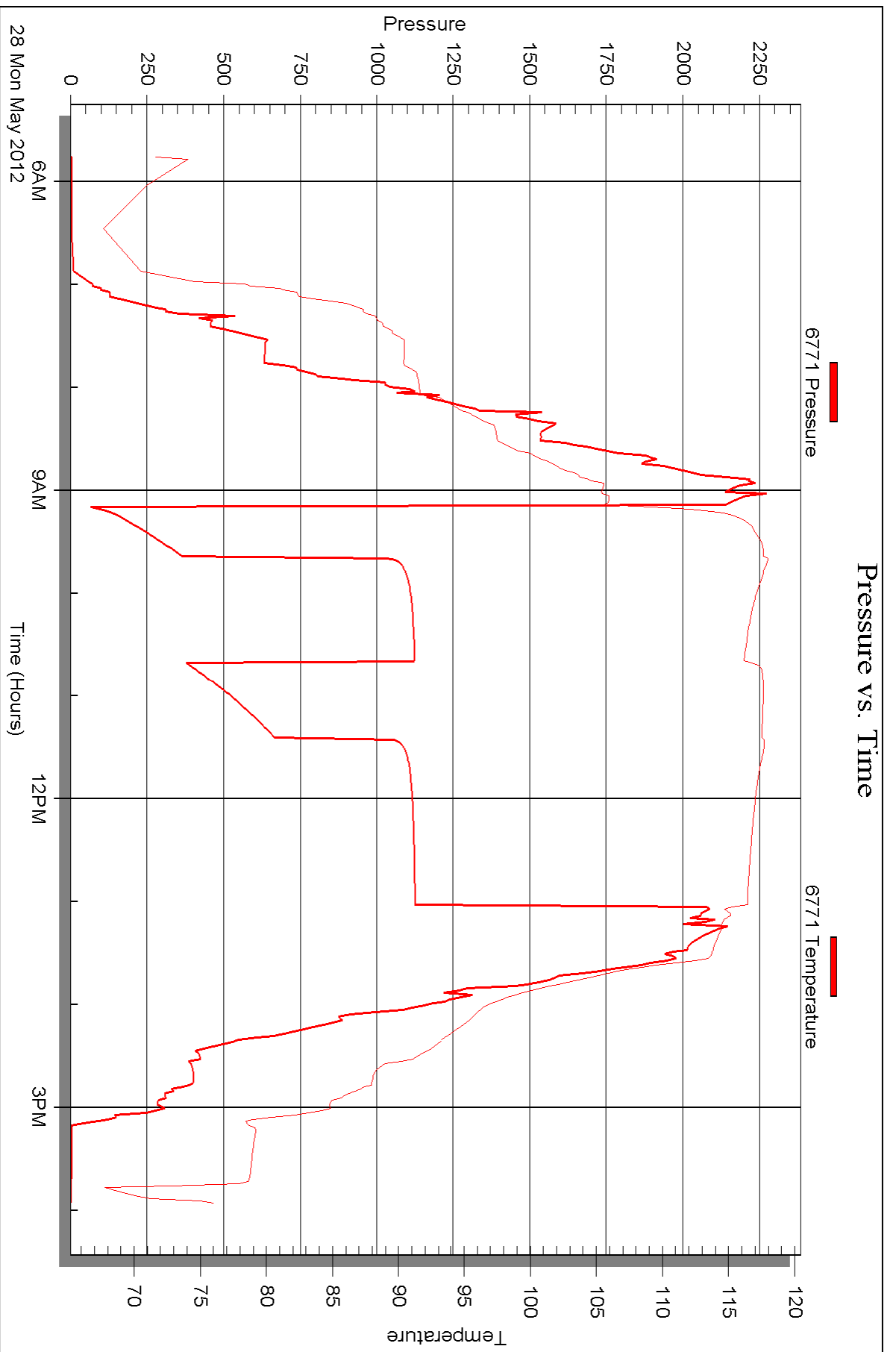
Printed: 2012.05.28 @ 17:54:48

Serial #: 6771

Outside Raymond Oil Comp

Eder #1

DST Test Number: 2





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Raymond Oil Comp
 p.o.box 48788
 Wichita, Ks
 67201
 ATTN: Max Lovely

18-20s-35w Wichita, Ks

Eder #1

Job Ticket: 48255

DST#: 3

Test Start: 2012.05.29 @ 07:55:59

GENERAL INFORMATION:

Formation: **Myrick Station**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 12:53:59

Time Test Ended: 17:58:44

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4576.00 ft (KB) To 4610.00 ft (KB) (TVD)

Total Depth: 4610.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3159.00 ft (KB)

3149.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8368

Inside

Press @ Run Depth: 42.59 psig @ 4577.00 ft (KB)

Start Date: 2012.05.29

End Date:

2012.05.29

Start Time: 07:55:59

End Time:

17:39:44

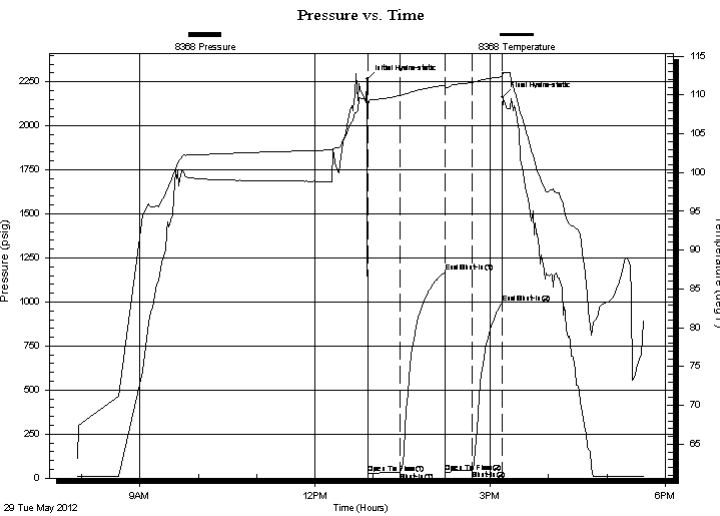
Capacity: 8000.00 psig

Last Calib.: 2012.05.29

Time On Btm: 2012.05.29 @ 12:53:44

Time Off Btm: 2012.05.29 @ 15:12:59

TEST COMMENT: Weak blow died in 10 min.
 No return
 No blow, Flush tool good surge, No blow
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.69	109.68	Initial Hydro-static
1	26.37	108.56	Open To Flow (1)
34	31.96	109.91	Shut-In(1)
80	1170.31	111.25	End Shut-In(1)
80	32.12	110.67	Open To Flow (2)
108	42.59	111.61	Shut-In(2)
139	996.60	112.34	End Shut-In(2)
140	2163.94	112.78	Final Hydro-static

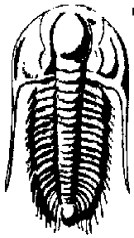
Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Raymond Oil Comp

18-20s-35w Wichita, Ks

p.o.box 48788

Eder #1

Wichita, Ks

Job Ticket: 48255

DST#: 3

67201

ATTN: Max Lovely

Test Start: 2012.05.29 @ 07:55:59

GENERAL INFORMATION:

Formation: **Myrick Station**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 12:53:59

Time Test Ended: 17:58:44

Interval: 4576.00 ft (KB) To 4610.00 ft (KB) (TVD)

Total Depth: 4610.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Reference Elevations: 3159.00 ft (KB)

3149.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6771 Outside

Press @RunDepth: psig @ 4577.00 ft (KB)

Start Date: 2012.05.29 End Date: 2012.05.29

Start Time: 07:55:35 End Time: 17:39:20

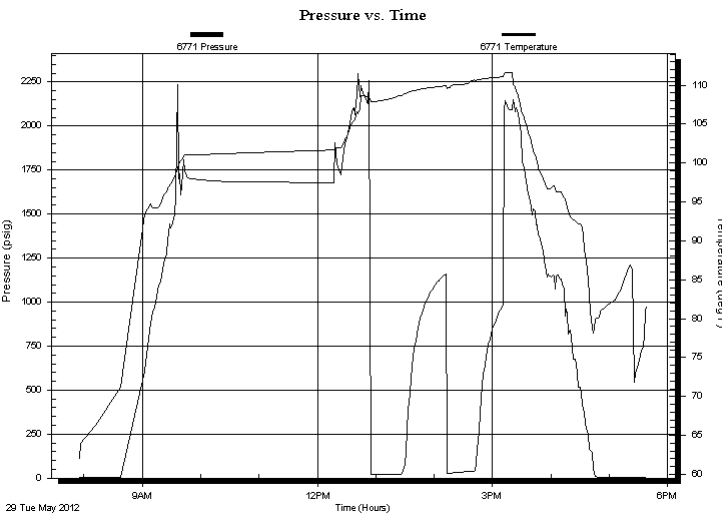
Capacity: 8000.00 psig

Last Calib.: 2012.05.29

Time On Btm:

Time Off Btm:

TEST COMMENT: Weak blow died in 10 min.
No return
No blow, Flush tool good surge, No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud 100%m	0.10

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Comp

18-20s-35w Wichita, Ks

p.o.box 48788
Wichita, Ks
67201

Eder #1

Job Ticket: 48255

DST#: 3

ATTN: Max Lovely

Test Start: 2012.05.29 @ 07:55:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud 100%m	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8368

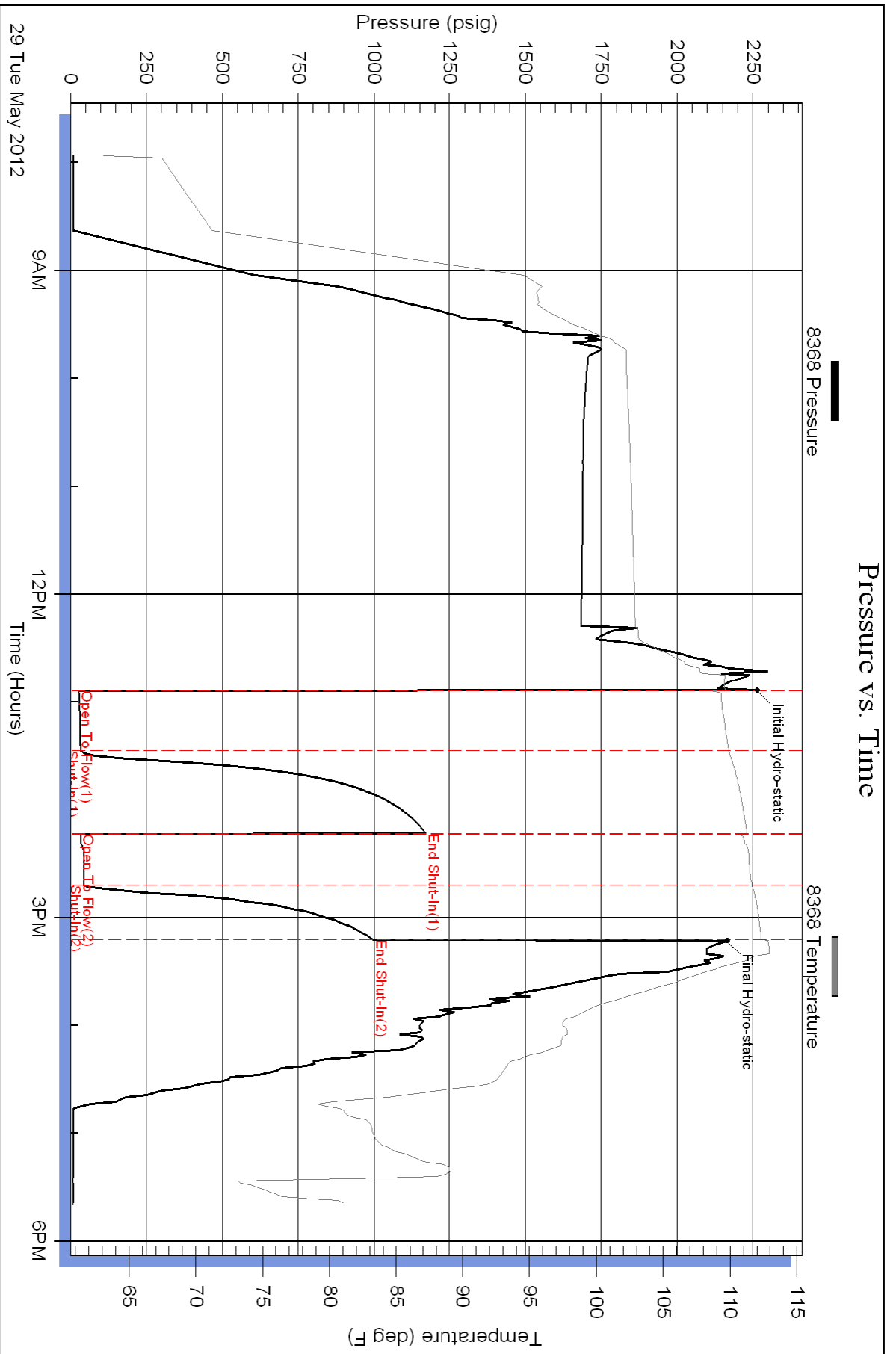
Inside

Raymond Oil Comp

Eder #1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48255

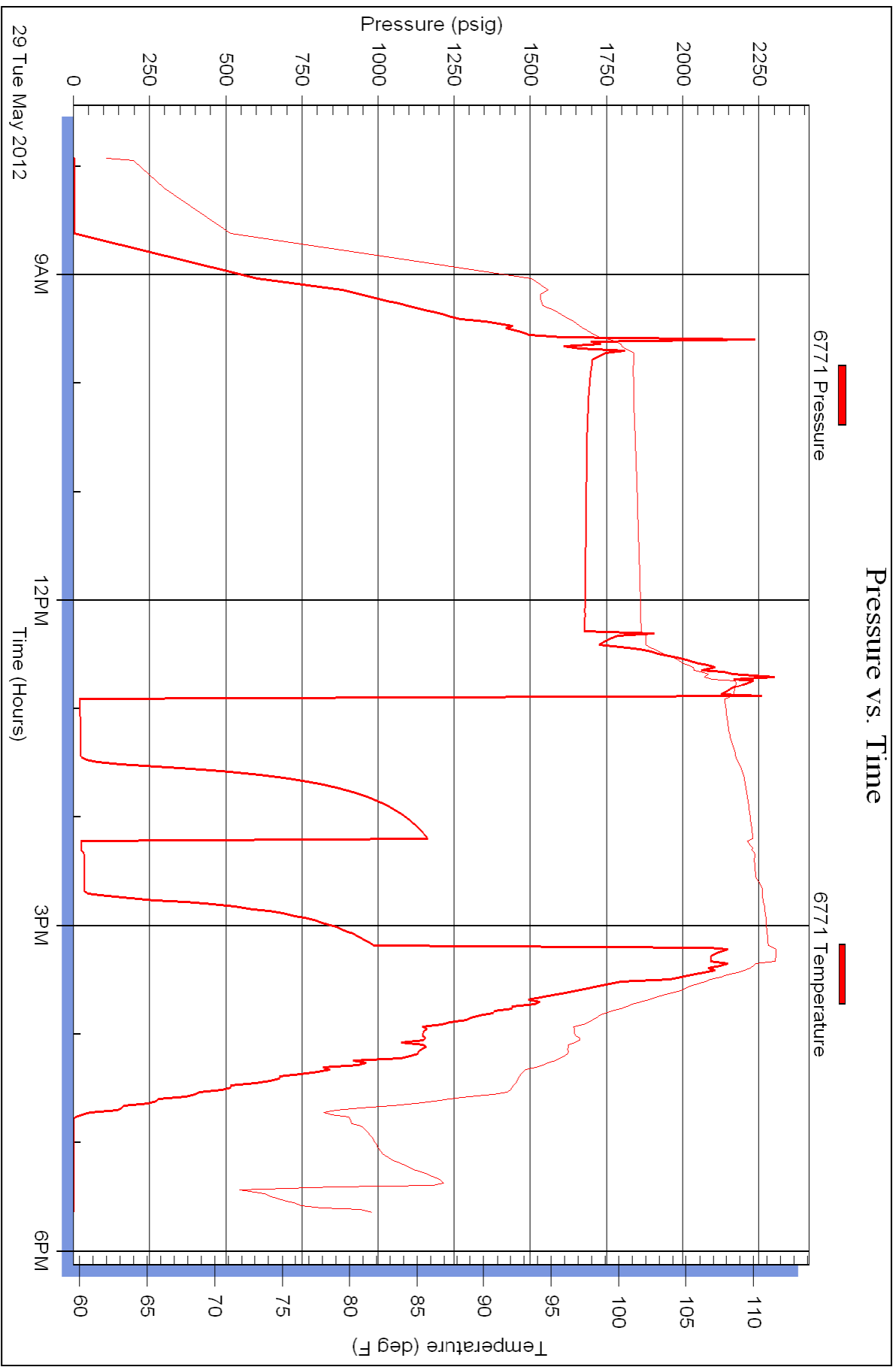
Printed: 2012.05.29 @ 18:45:48

Serial #: 6771

Outside Raymond Oil Comp

Elder #1

DST Test Number: 3



Max R. Lovely

GEOLOGIST'S REPORT
 WILLIAM T. HAYDEN, JR.

COMPANY **Raymond Oil Co.**
 WELLS **Eder 18 #1**
 FIELD **Wildcat**
 SECTION **NE SW SE NE**
 TWP **18** R **20** S **35W**
 COUNTY **Wichita** STATE **KS**
 HOLE NO. **H2 #2**
 DATE **5-16-2012** TO **6-1-2012**
 LOG NO. **5071** TO **5076**
 DEPTH **3607** FEET **Chem**

3159

3148

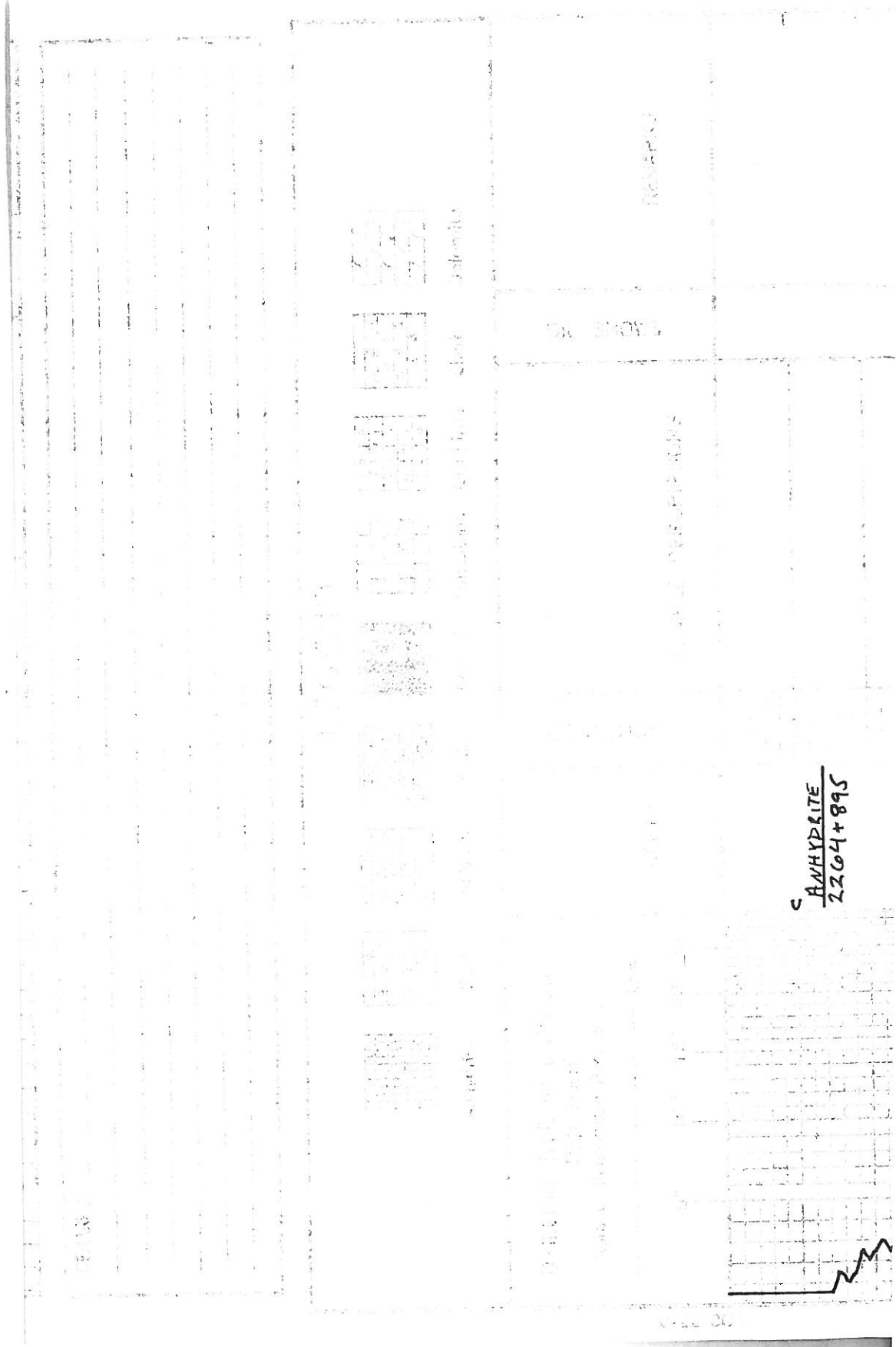
KB

8 5/8" @ 265'

COMP N/D
 DI, MICRO

Base Anhydrite	2281			881		
Stoller	3510	3506	-347	-353	-346	-357
Heobner	3932	3938	-779	-776	-768	-777
Lansing	3980	3984	-825	-823	-820	-826
Stark	4297	4297	-1138	-1145	-1120	-1138
Marmaton	4461	4481	-1322	-1309	-1304	-1317
Pawnee	4560	4571	-1412	-1408	-1394	-1411
Myric Station	4591	4606	-1447	-1443	-1427	-1447
Fl. Scott	4613	4621	-1462	-1460	-1444	-1461
Cherokee	4638	4653	-1494	-1487	-1476	-1491
Johnson	4678	4698	-1539	-1530	-1523	-1531
Atoka	4744	4746	-1587	-1577	-1569	-1581
Morrow SH	4823	4830	-1671	-1661	-1656	-1661
Mississippi	4913	4937	-1776	-1757	-1742	-1781

Raymond Eder #2 NE NE SW 17-20-35W
 Raymond Brack 18 #1 C SW 18-20-35W
 Raymond Eder 7 #1 NE SW NW SE 7-20-35W



ANHYDRITE
 2264+895



2281+878

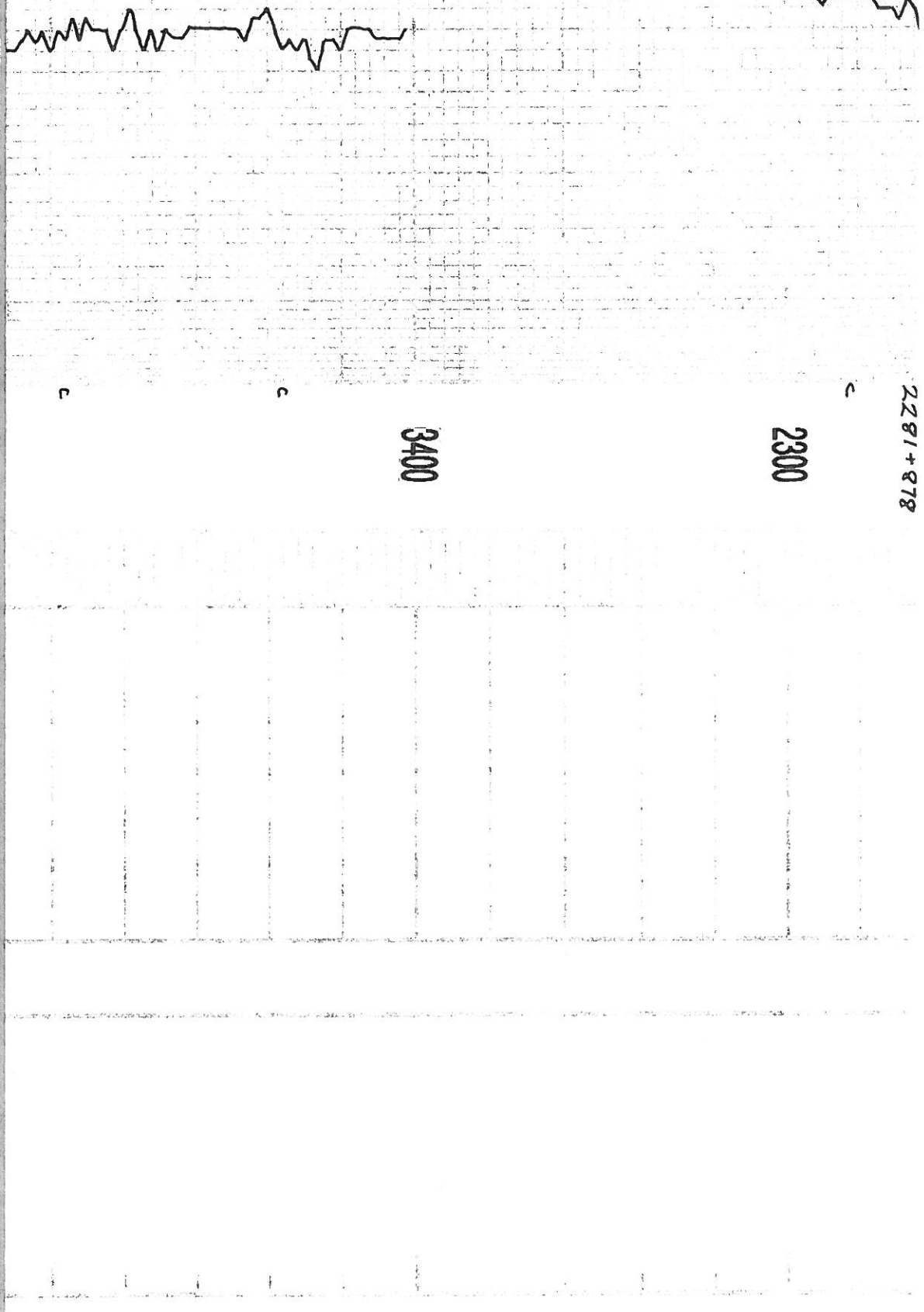
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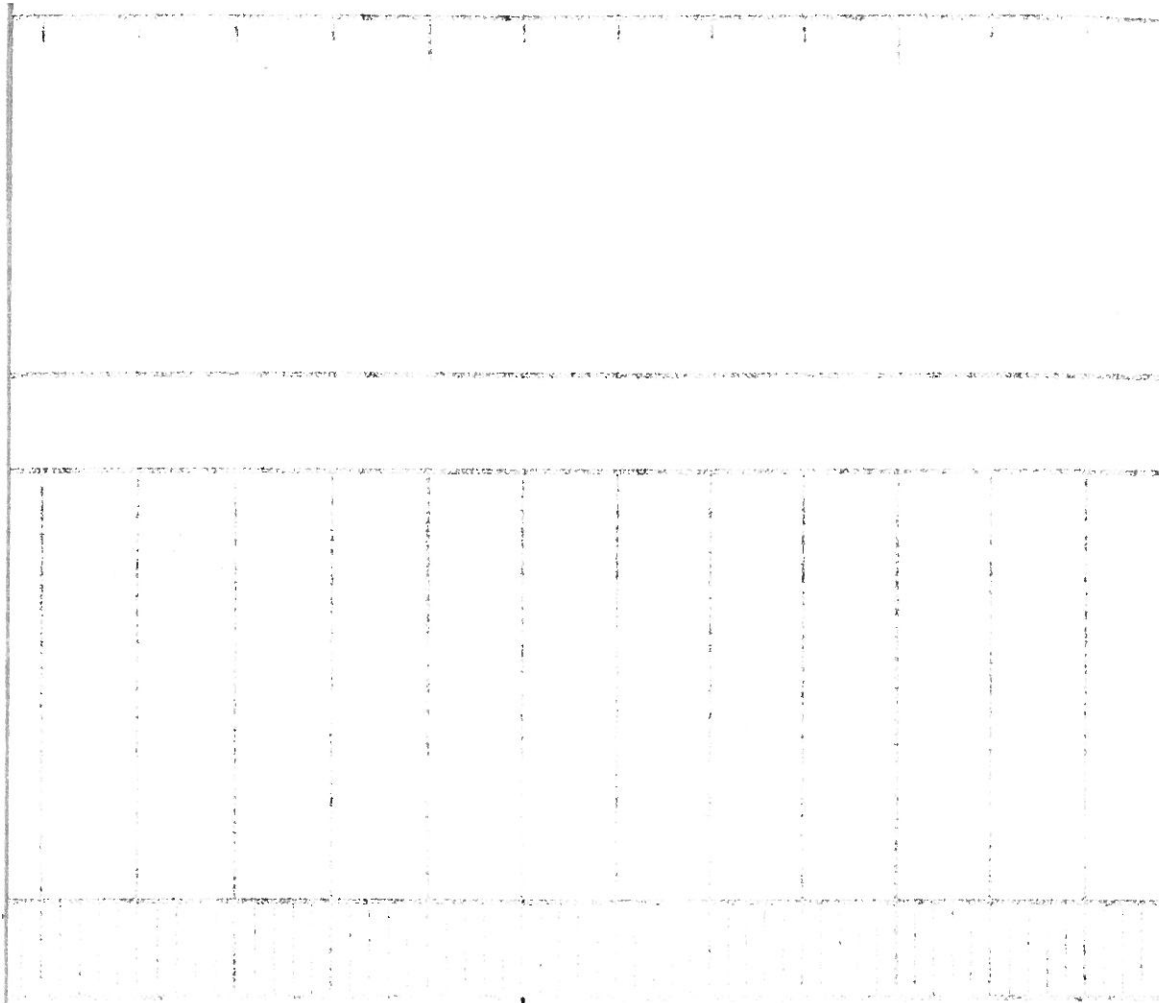
2300

3400

c

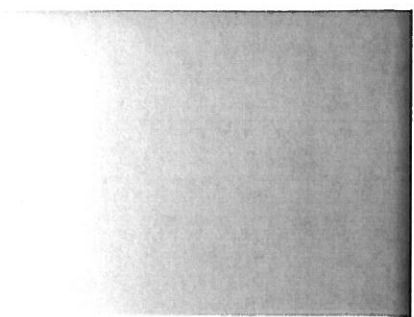
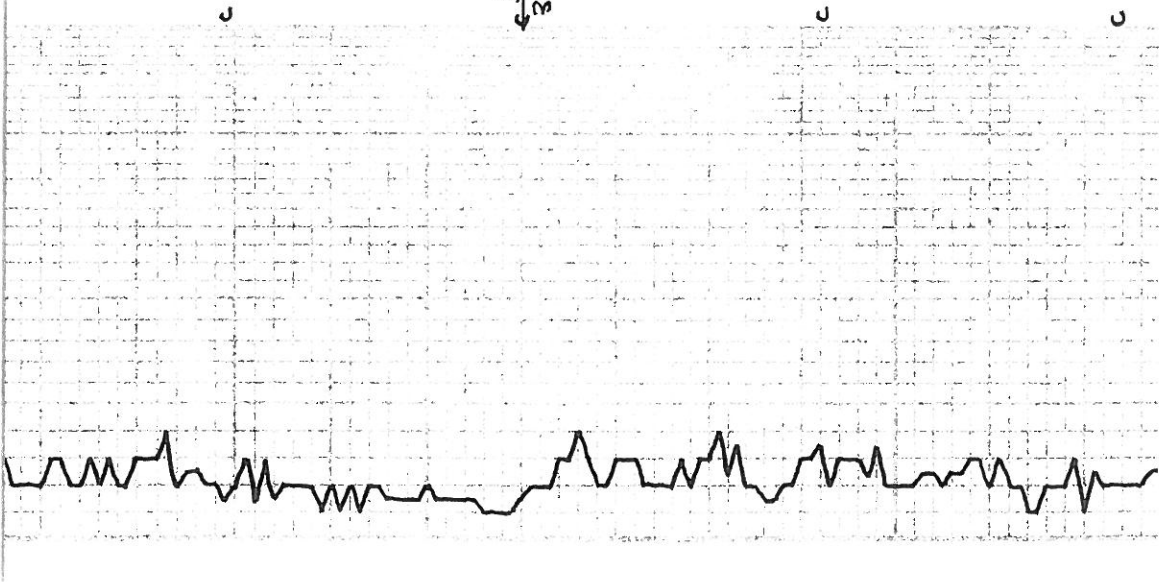
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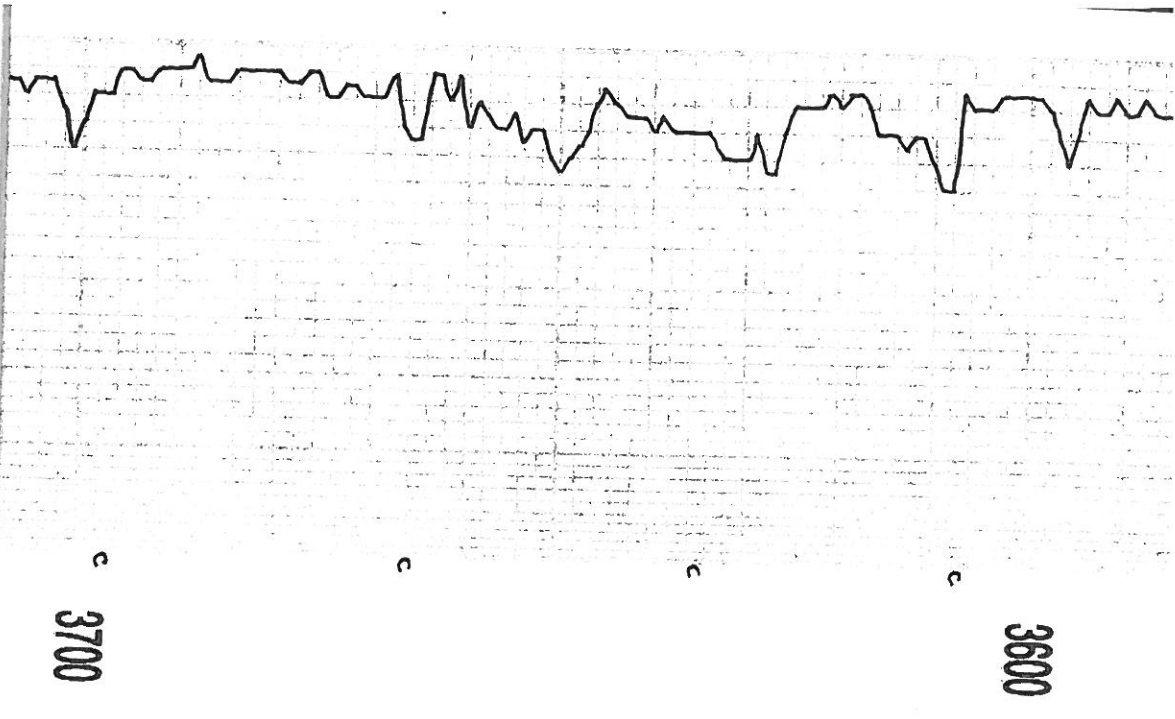




3500

← STOTLER
3510 - 351





3600

L5, GRAY, WHT, FXTLU, MHRD
FXTLU PINS

SH, VARI COLOR

L5, WHT, FXTLU, HRD, FOSS,
PINS

L5, GRM, BUFE, VEXTLU,
VHRD, TITE, MS

SH, VARI COLOR

3700

7:AW55-12-
DRLG @ 3702'

MUD CHECK
VIS 58 WT 8.9
CHLOR 9600 LCM2
FILY 10.4

LS, GRY, F XTLN, SOFT,
BRITL, SLCHLY, F P, NS

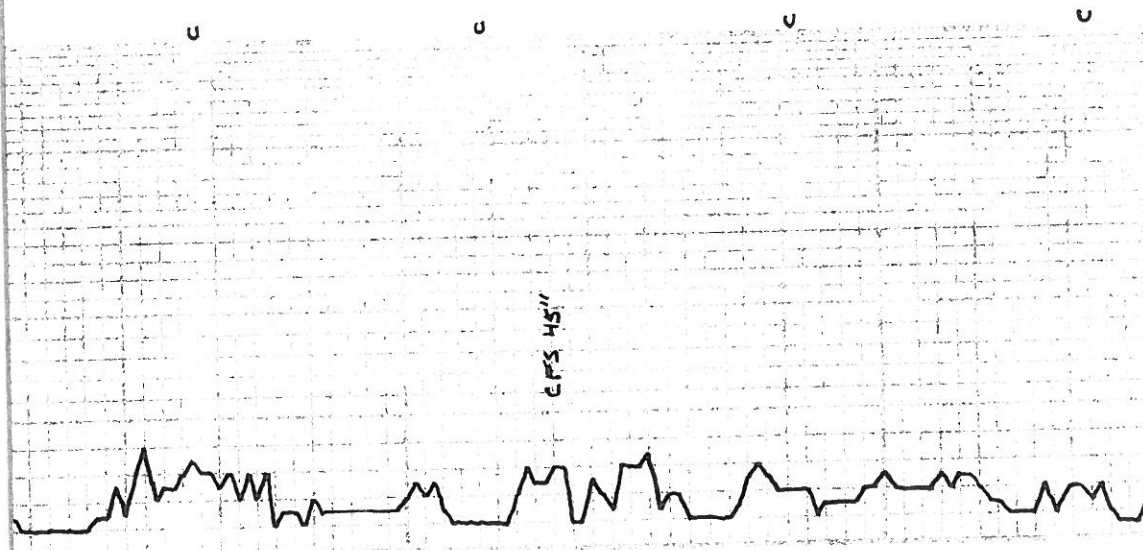
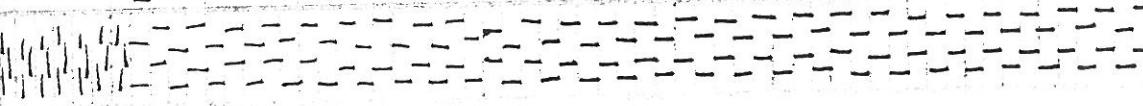
LS, CRM, BUFF, SOFT, CHLY

CHLK

LS, GRY, F → M XTLN, SOFT,
VFOSS, CHLY, P → E P, NS

LS, CRM, TAN, F → M XTLN,
GRNLR TXT, MHRD, NO APP
NS

LS, BUFF, TAN, CHLY, SOFT,
BRITL, F XTLN P, NS



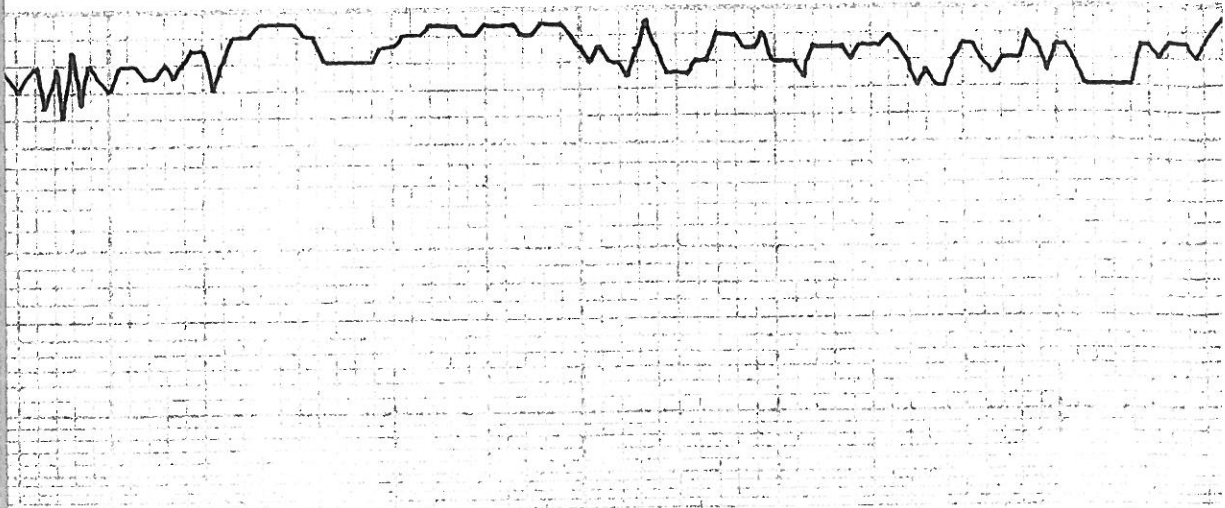
3800

c

c

c

c



HEEBNER
3932-773

3900

L5, BRN, VEXTLN, VDMS, HRD,
FOSS, TITE, MS

L5, GRY, A.A

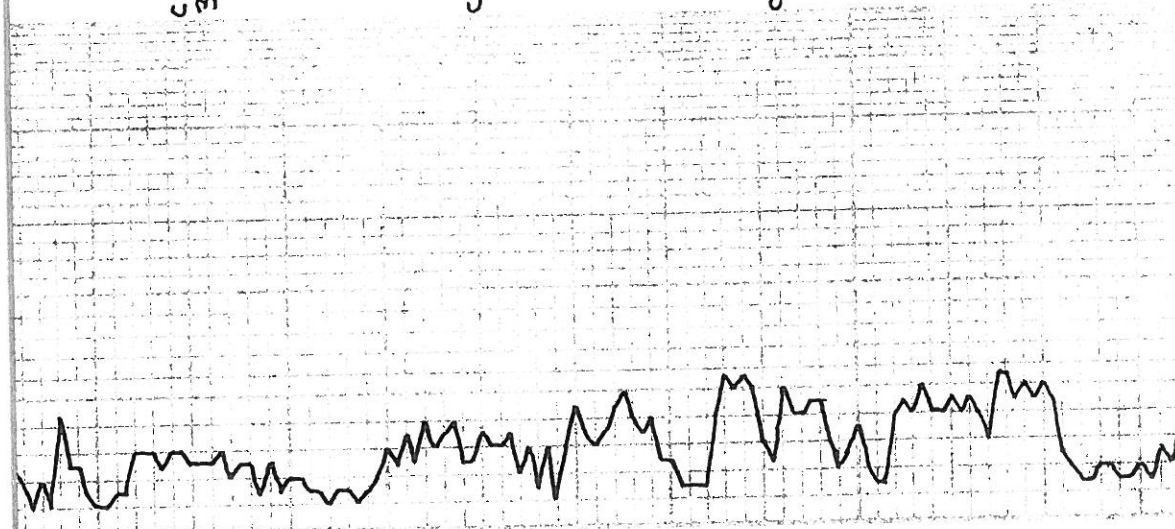
L5, CRM/WHY, FXTLN, GRAY,
S-M HRD, MICRO FOSS, MS

L5, TAN/BRN, F-MXTLN,
SOFT, V GRNLR, GXTLN,
MS

SH, GRY, SOFT
CHY, WHY, REXTLD FRACS,
LMV

L5, TAN, BUFF, FXTLN, HRD,
SML FOSS, NO APPP, MS





CLAWSONG
3980-821

4000

c

c

c

AA.

LS, C.R.M, WHT, FXTLN, HRD,
SL BRITL TO DMS, NO APP, NS
SCT FOSS, NS

LS, WHT, V FXTLN, S → M HRD,
BRITL, NO APP, NS

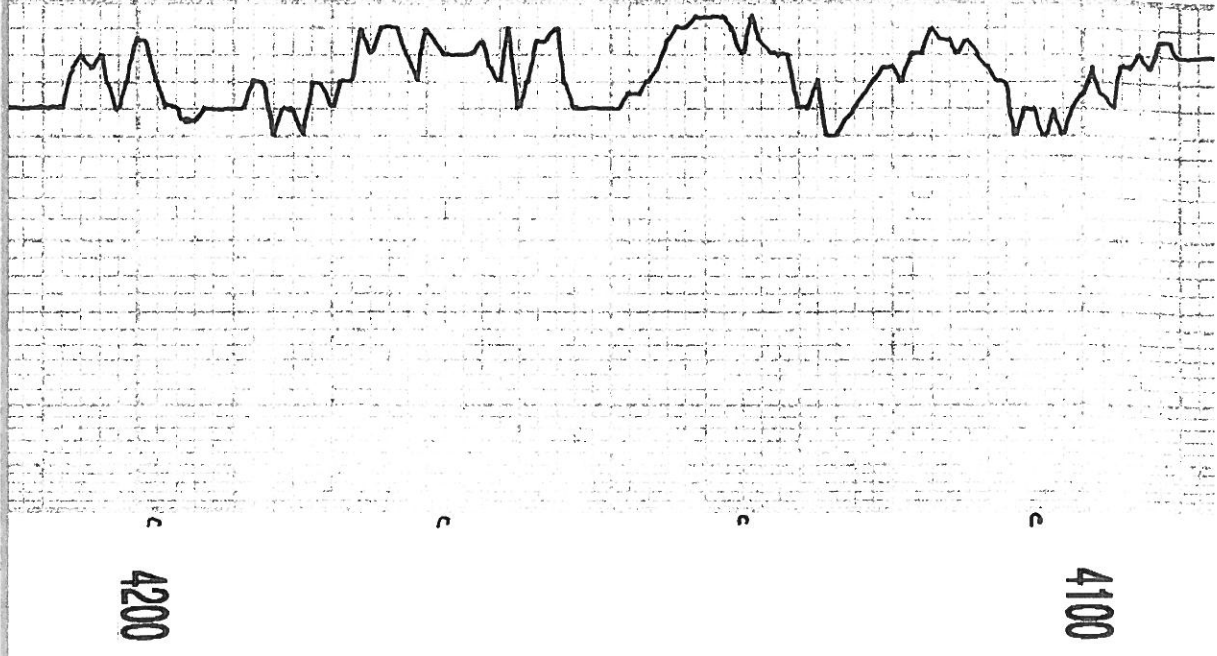
LS, A.A. INCR CHLE

LS, LT GRY, V HRD, V DMS, TITE
NS

LS, WHT, V FXTLN, V DMS, V HRD,
TITE, NS

LS, C.R.M, V FXTLN, V HRD, V DMS,
ABUN FOSS, SL DOL, TITE, NS

LS, TAN, V FXTLN, V DMS & HRD,
TITE, NS



L5, WHT, CRM, FXTLN, CRUMBLY
 G, MS

SH, GRV
 L5, WHT, CRM, FXTLN, VDMS,
 VHRD, TITE, MS

Δ Δ
 Δ Δ
 Δ Δ
 CHT, WHT, Pcs V OOL, TITE

L5, WHT, FXTLN, OOM, MS
 NO PERM,

L5, TAN, V FXTLN, SCT FOSS
 VDMS + HRD, SHARP, TITE
 MS

L5, WHT, FXTLN, SL CHLKR
 SOFT, FXTLN, MS

SH, GRV, GRN

L5, TAN, V FXTLN, HRD, DMS,
 SL FOSS, TITE, MS

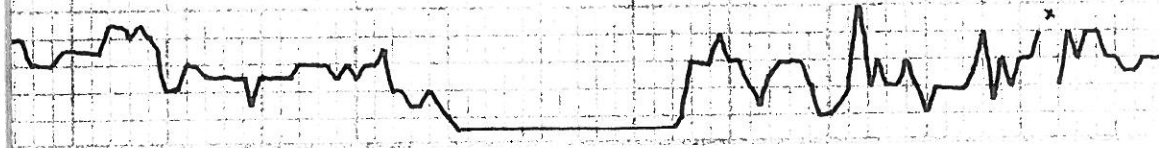
L5, BRN, FXTLN, V FOSS, HRD,

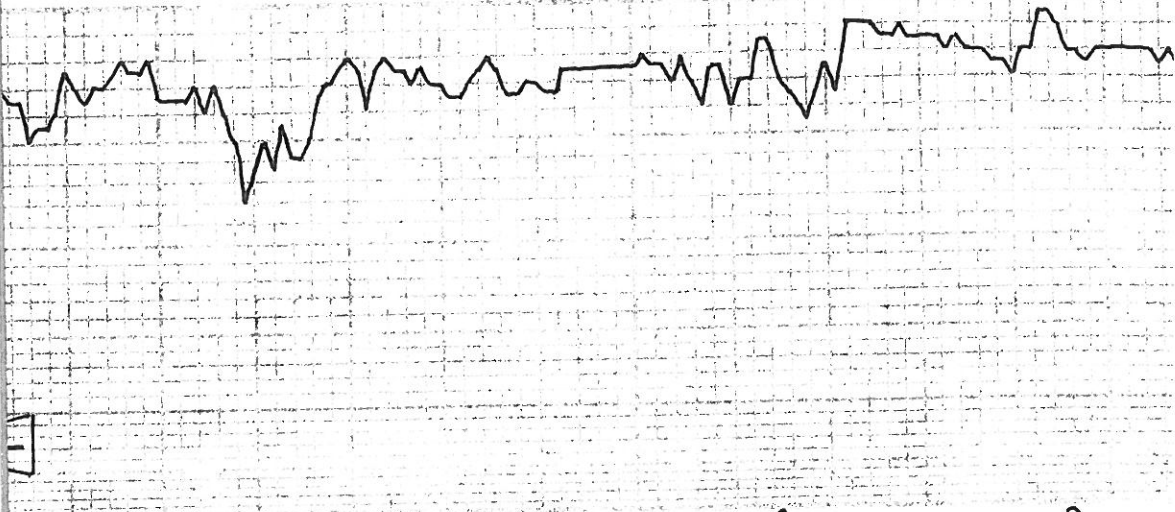
NO APP. NS
 SH, GRY
 LS, BUFF, R XTLN, SCT VARI
 SIZE FOSS, P XTLN + FOSS
 NS
 LS, BUFF, F XTLN, OOM, HRD,
 W CMTID OOLs, NO PERM, NS
 SH, GRY
 LS, BUFF, V OOM, VARI SIZE
 OOMS, OOL WNI, SL VUG, \emptyset ,
 WET, NS
 LS, A.A.
 LS, WHT, F XTLN, SOFT, CHKY,
 G XTLN \emptyset , NS
 SH, BLK
 SH, GRY
 LS, CRM, WHT, F XTLN, Pcs
 DNS, M HRD, SCT FOSS, NS
 A.A.

7:AM 5.26.12
 DRLG @ 4225'

MUD CHECK
 VIS 49 WT 9.6
 CHLOR 9,400 LCM 2
 FILT 10.4

STARK
 4300
 HR97-1138



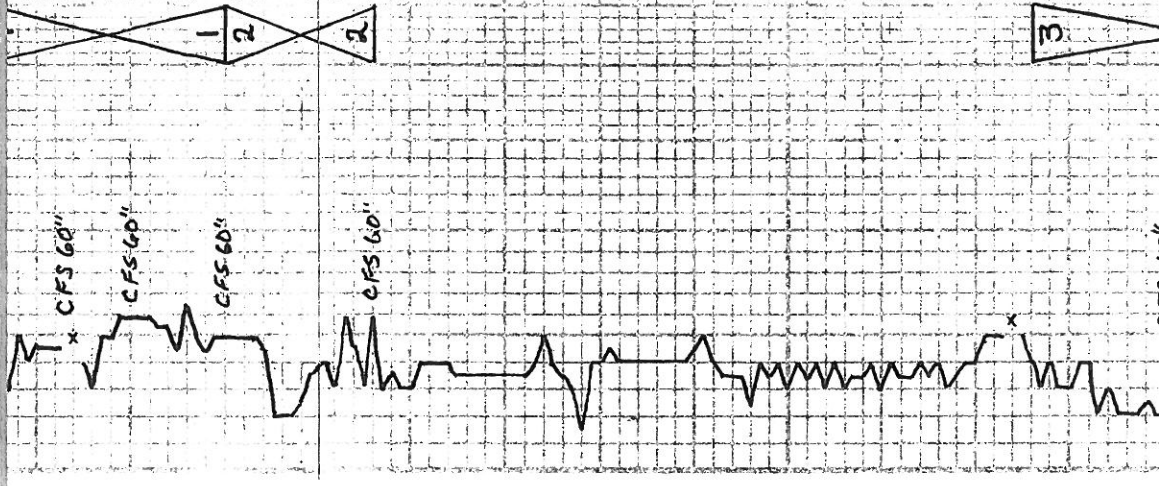


4400

MARKATION
4461 - 1302

LS, WHT, SOFT, CHLKY, NO APP ϕ NS
LS, WHT, VEX TLW, VPMS, HRD, SL BRTL, SCT FOSS NS
A.A.
SH, VARI COLOR
LS, WHT, F ϕ M XT LW, CRSTXT, MHRD, GXTLW ϕ NS
SLT STM, GRY
SS, GRY V F GRN ϕ , W SORT, V SOFT, FEIBLE, NS SH, VARI COLOR
SLT STM, BRW, V SVDY
LS, BUFF / TAN, V F XT LW CMT'D FOSS + FRAS, SL INT ϕ , NS

DST #1 4464-4490
30.60-45.90
LF: 3" 151: NR
FF: 1 1/2" F51: NR
RE: 25' FO 30" GRAV
40' OCM 40% OIL
TRGAS
3 GIP - WINDY BHT 112°
FP: 30-43, 46-61
SIP: 877-885
HP: 2299-2262



4500

PAWNEE
H560-1401

MURIC

LS, TAN, GRAY, V F XTLN, V DNS,
V HRD, TITE, NS

LS, WHI, GRAY, CHLKY, BRIGHT
FLUOR, FLUOR FO ON BRK,
V V LT OIL

LS, BUFF, F XTLN CMT DOOLS,
F P XTLN B FILL, FLUOR
+ DK BRN OIL ON BRK, V SL
SCT PP FO

LS, BUFF, F M XTLN, SCT CRS
XTLN W, FO STNG IN XTLN, F
SCT FO ON BRK

LS, BUFF, OIL, F CMT DOOLS, FO
SCT FO ON BRK, COOL OIL STNG,
ABOV FREE DOOLS, FO BRK
BRN OIL

~ SH, FLOOD ~

LS, TAN, V F XTLN, HRD, DNS,
V FEW FOSS, TITE, NS

SH, GRAY

LS, BRN, F M XTLN, HRD,
SL FOSS, TITE, NS

LS, GRAY, F M XTLN, HRD,
SL FOSS, TITE, NS

SH, GRAY

LS, CRM, WHI, V F XTLN + F
XTLN, SL HRD, SL FOSS,
P F FOSS + XTLN, NS

LS, WHI, F XTLN, HRD, DNS,
SCT FOSS, NO APP P, NS

CHALK

NO ODR
FLUOR

LT ODR
RAINBOW
FO

LT ODR
RAINBOW
FO

FO
DULL
FLOOR

7:AM 5-27-12
DST #1 @ 4490'
VIS 58 WT 9.2
CHLOR 6,000 LCMZ
FILT 8.0

7:AM 5-28-12
DST #2 @ 4506'
MUP CHECK

VIS 52 WT 9.2
CHLOR 6,300 LCMZ
FILT 8.8

STRAP 4511.48
BOARD 4510.89

10wa .59

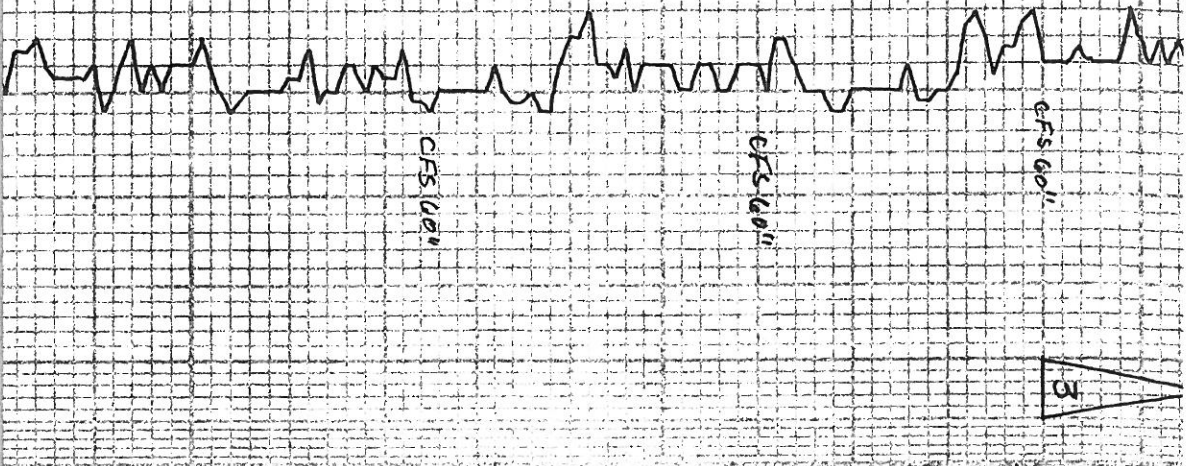
DST #2 4490-4506
30-60-45-90

IF: BOB 6 1/2" ISI: 1/4"
FF: BOB 8" FSI: NR

REC: 120' SMCW
1200' SW
120' W

118° 39,000 CHLOR

FP: 50-371, 378-672
SIP: 1127-1128
HP: 2256-2111



4600

c
FT SCOTT
4613-1454

c
CHERRIDGE
4638-1479

c
JOHNSON
4688-1529

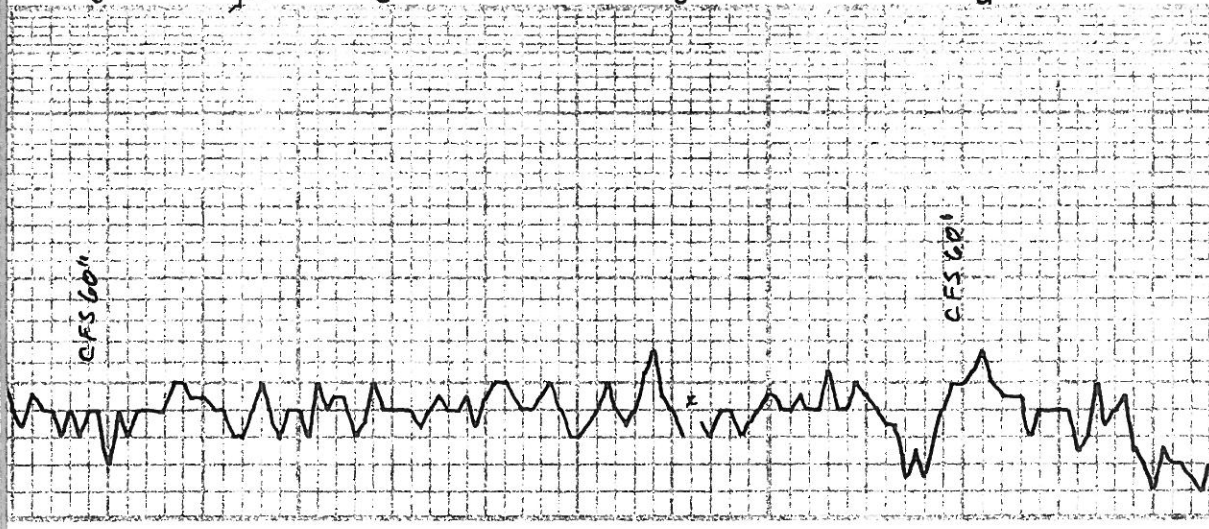
4700

LS. GRAY, FXTLN, SCT FOSS, VF MICRO D FILTR, FO, BRN OIL, V DULL FLVDR, HRD MOSTLY TITE	LS. WHT, A.A.	LS. WHT, FXTLN, SL CHLKY, SOFT SL FOSS, NS	LS. CRM, TAN, VF XTLN, DMS, HRD, SL FOSS, TITE, NS	LS. TAN, WHT, FXTLN, Pcs MXTLN, BRITL, No APP, NS	LS. TAN, VF XTLN, V DMS, V HRD, FEW FOSS, TITE, NS	LS. GRAY, SWY, SCT IRON	LS. CRM, TAN, VF XTLN, DMS, HRD, SL FOSS, TITE, NS	LS. GRAY, SWY, SCT IRON	LS. TAN, WHT, FXTLN, Pcs MXTLN, BRITL, No APP, NS	LS. TAN, WHT, FXTLN, Pcs MXTLN, BRITL, No APP, NS	LS. TAN, WHT, FXTLN, Pcs MXTLN, BRITL, No APP, NS	LS. CRM, FXTLN, CHLKY, SOFT, SCT FOSS, FXTLN, NS	LS. TAN, VF XTLN, DMS, V HRD, FOSS, TITE, NS	SH, GRAY GRN	SH, GRAY GRN
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7:30 AM 5-29-12
DST #3 @ 4610
MUD CHECK
VIS 54 WT 9.2
CHLOR 6,000 LCM 2
FILT 8.8

DST #3 4576-4610
30-45-30-30
IF: SURF, DIED 10 MIN
IS: NR FS: NR
FF: D6AD, FLUSH (2), SURF 610
REC: 20' M 113°
FP: 26-31, 32-42
SIP: 1170-996
HP: 2262-2163

7:45 AM 5-30-12
DRIG @ 4696
MUD CHECK
VIS 51 WT 9.2
CHLOR 8000 LCM 1
FILT 8.8

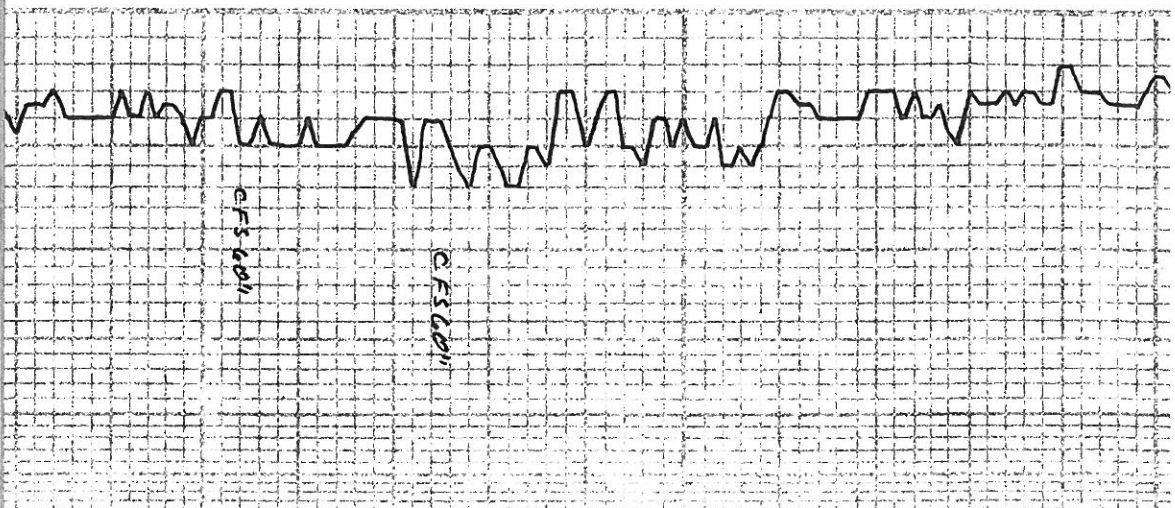


LS, WHT, CRM, FXTLN, M HRD, SCT UNCONSOL SAND GRNS, SUB RND, CRM, TAN, US	LS TAN, V FXTLN, V DMS + HRD, SCT FOSS, NO ϕ . NS	LS, WHT, V FXTLN, V DMS, V HRD, SCT FOSS, NO ϕ . NS	A.A.	SS, WHT, CHLKY, GRN GRNS, PSORT, F. CMT'D, LG TAN GRNS W/N, NS, ? CARB W/N	SH, GR Y, GRN, BLK	SS, WHT, F \rightarrow M GRNS, W SORT SL HRD, G ϕ , ? STNG, NO ODOR	SH, BLK SH, GRAY
---	---	---	------	--	--------------------	---	---------------------

A TOKA
4744-1585

4800

MORROW SH
4823-1664



LS BRN / WHT, GRN XTLM,
BRTL, HAD, NO APP. NS

SH, GRY, SLTY, SMDY



4900

MISS

C4913-1754

SS. CLR, SUB ANG - SOB RWD,
W SORT, S FERRIBLE, G. RNS
RS PYRCMTD
LS ITAW, GRY, VEXTM, HAD, DMS
NO FOS, NO APP Ø, NS

SH, BRIGHT GREEN

LS GRY, VEXTM, DMS, HRB,
TITE, NS

SS. CLR NS, W SORT, WHT, BRN
GRN CMT, SOFT, PES FERRIBLE
FOS, P. NS

SS. CLR GRNS, MED GRNS, VV CMT
HRB, NS

LS BRN, FXTM, LG XTLG + FOS
W/W, VHRB, TITE, NS

8:4M 5.3112

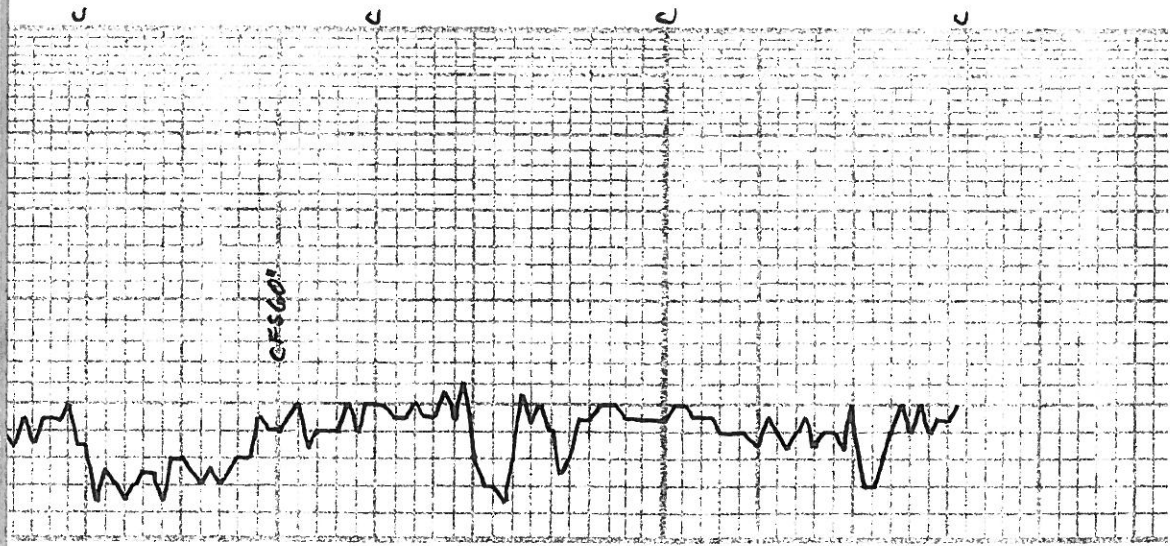
RIC BROKE @ 4927'

MUD CHECK

VISTD WT 9.3

CHDR 7, 800 LCM 2

FICT 9.6



5000

LS, TAN, BRN, FXTLM, VHRD, V FOSS, NO APP, NS	LS, WHT, FXTLM, MXTLS, SCT YW HRD, NO APP, NS	LS, BUFF, WHT, CHLKY, SOFT, NS	LS, TAN, FXTLM, SL DNS, MHRD, SCT FOSS, NS	LS, CRM, WHT, FXTLM, SOFT, CHLKY, P, FXTLM, NS	LS, BUFF, TAN, FXTLM, FOSS, SOFT, NS
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7:AM 6.1.12
LOGGING@ 5071ATD

