



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1078579
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
-----------------------------------	-----------------	---

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: _____

1078579

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: 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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Raymond Oil Company, Inc.
Well Name	Hazel Thomas 1
Doc ID	1078579

All Electric Logs Run

Micro
Dual Indensity
Dual prosity
sonic frac finder

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

April 11, 2012

Robert Turner
Raymond Oil Company, Inc.
PO BOX 48788
WICHITA, KS 67202-1822

Re: ACO1
API 15-025-21533-00-00
Hazel Thomas 1
NE/4 Sec.20-32S-22W
Clark 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,
Robert Turner



DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company Inc**

Po Box 48788 Wichita KS 67202+1822

ATTN: Max Lovely

Hazel Thomas #1

20-32s-22w Clark

Start Date: 2012.02.23 @ 01:20:00

End Date: 2012.02.23 @ 11:33:30

Job Ticket #: 18746 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.03.04 @ 19:13:10



DRILL STEM TEST REPORT

Raymond Oil Company Inc
 Po Box 48788 Wichita KS 67202+1822
 ATTN: Max Lovely

20-32s-22w Clark
Hazel Thomas #1
 Job Ticket: 18746 **DST#: 1**
 Test Start: 2012.02.23 @ 01:20:00

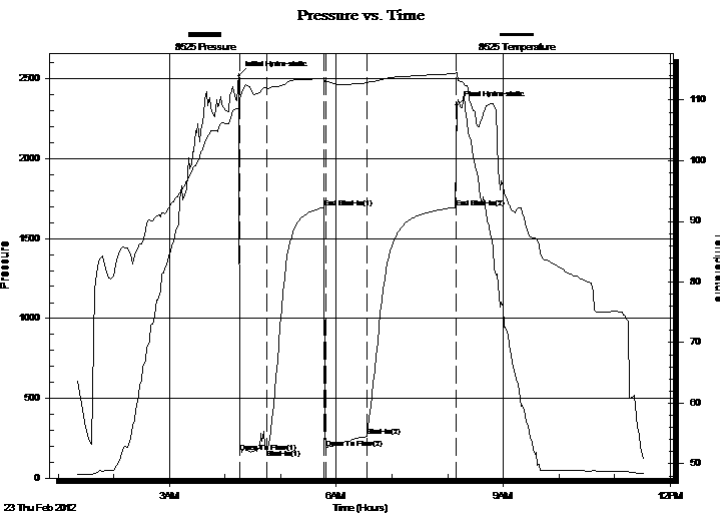
GENERAL INFORMATION:

Formation: **Lansing 140'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:15:30
 Time Test Ended: 11:33:30
 Interval: **4818.00 ft (KB) To 4838.00 ft (KB) (TVD)**
 Total Depth: 4838.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend -260
 Reference Elevations: 2192.00 ft (KB)
 2183.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8525

Press @ RunDepth: 259.58 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.02.23 End Date: 2012.02.23 Last Calib.: 2012.02.23
 Start Time: 01:21:00 End Time: 11:33:30 Time On Btm: 2012.02.23 @ 04:15:00
 Time Off Btm: 2012.02.23 @ 08:10:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 7 minutes
 1st Shut-in 60 Minutes-Blow back built 2 inches from bottom of bucket
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minutes Gas to surface 10 minutes see gas report
 2nd Shut-in 90 Minutes-Blow back built 2 inches from bottom of bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2520.24	108.36	Initial Hydro-static
1	160.75	107.45	Open To Flow (1)
30	179.00	111.95	Shut-In(1)
92	1694.84	113.50	End Shut-In(1)
94	184.65	112.97	Open To Flow (2)
138	259.58	112.89	Shut-In(2)
234	1695.66	114.37	End Shut-In(2)
235	2335.05	114.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightley gassy oil cut w atery mud	0.30
0.00	10%Gas 5%Oil 5%Mud 80%w ater	0.00
120.00	Oil cut w ater 80%oil 20%w ater	0.59
120.00	Heavy oil cut w atery mud	0.59
0.00	80%Oil %%mud 20%w ater	0.00
120.00	Oil cut muddy w ater 5%oil 75%mud20%w	1.68

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.70	10.63
Last Gas Rate	0.25	6.70	10.63
Max. Gas Rate	0.25	6.70	10.63



DRILL STEM TEST REPORT

Raymond Oil Company Inc
 Po Box 48788 Wichita KS 67202+1822
 ATTN: Max Lovely

20-32s-22w Clark
Hazel Thomas #1
 Job Ticket: 18746 **DST#: 1**
 Test Start: 2012.02.23 @ 01:20:00

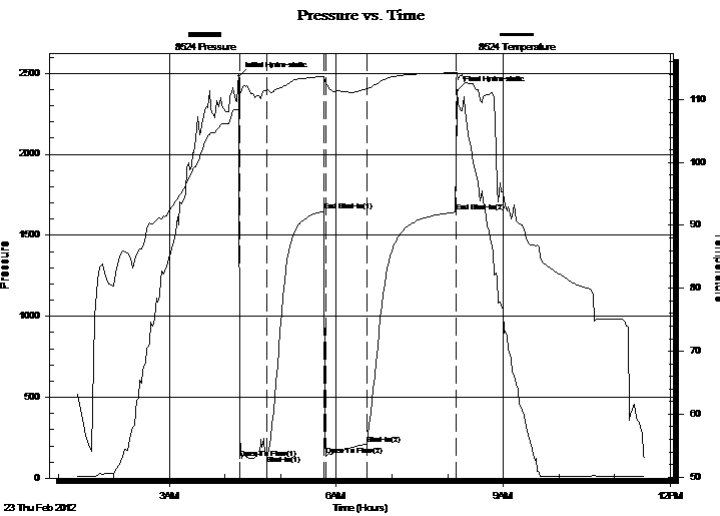
GENERAL INFORMATION:

Formation: **Lansing 140'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:15:30
 Time Test Ended: 11:33:30
 Interval: **4818.00 ft (KB) To 4838.00 ft (KB) (TVD)**
 Total Depth: 4838.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend -260
 Reference Elevations: 2192.00 ft (KB)
 2183.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8524

Press @ Run Depth: 1642.79 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.02.23 End Date: 2012.02.23 Last Calib.: 2012.02.23
 Start Time: 01:21:00 End Time: 11:33:30 Time On Btm: 2012.02.23 @ 04:15:00
 Time Off Btm: 2012.02.23 @ 08:10:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 7 minutes
 1st Shut-in 60 Minutes-Blow back built 2 inches from bottom of bucket
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minutes Gas to surface 10 minutes see gas report
 2nd Shut-in 90 Minutes-Blow back built 2 inches from bottom of bucket



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2482.12	108.65	Initial Hydro-static
1	120.21	108.76	Open To Flow (1)
30	138.38	111.45	Shut-In(1)
92	1647.97	113.71	End Shut-In(1)
94	141.58	112.52	Open To Flow (2)
138	209.31	111.73	Shut-In(2)
234	1642.79	114.32	End Shut-In(2)
236	2391.82	114.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightley gassy oil cut w atery mud	0.30
0.00	10%Gas 5%Oil 5%Mud 80%w ater	0.00
120.00	Oil cut w ater 80%oil 20%w ater	0.59
120.00	Heavy oil cut w atery mud	0.59
0.00	80%Oil %%mud 20%w ater	0.00
120.00	Oil cut muddy w ater 5%oil 75%mud20%v	1.68

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.70	10.63
Last Gas Rate	0.25	6.70	10.63
Max. Gas Rate	0.25	6.70	10.63



DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company Inc
 Po Box 48788 Wichita KS 67202+1822
 ATTN: Max Lovely

20-32s-22w Clark
Hazel Thomas #1
 Job Ticket: 18746 **DST#: 1**
 Test Start: 2012.02.23 @ 01:20:00

Tool Information

Drill Pipe:	Length: 4504.00 ft	Diameter: 3.80 inches	Volume: 63.18 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 64.66 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	75000.00 lb
Depth to Top Packer:	4818.00 ft			Final	76000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.00 ft				
Tool Length:	48.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Shell Packer run for bottom packer /Gas to surface 10 minutes 2nd open see gas report /Gas sample was taken

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4800.00	
Hydraulic Tool	5.00			4805.00	
Jars	6.00			4811.00	
Safety Joint	2.00			4813.00	
Packer	5.00			4818.00	23.00 Bottom Of Top Packer
Shell Packer	5.00			4823.00	
Anchor	15.00			4838.00	
Recorder	1.00	8524	Inside	4839.00	
Recorder	1.00	8525	Outside	4840.00	
Bullnose	3.00			4843.00	25.00 Anchor Tool
Total Tool Length:	48.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company Inc
 Po Box 48788 Wichita KS 67202+1822
 ATTN: Max Lovely

20-32s-22w Clark
Hazel Thomas #1
 Job Ticket: 18746 **DST#: 1**
 Test Start: 2012.02.23 @ 01:20:00

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: 40.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 13500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

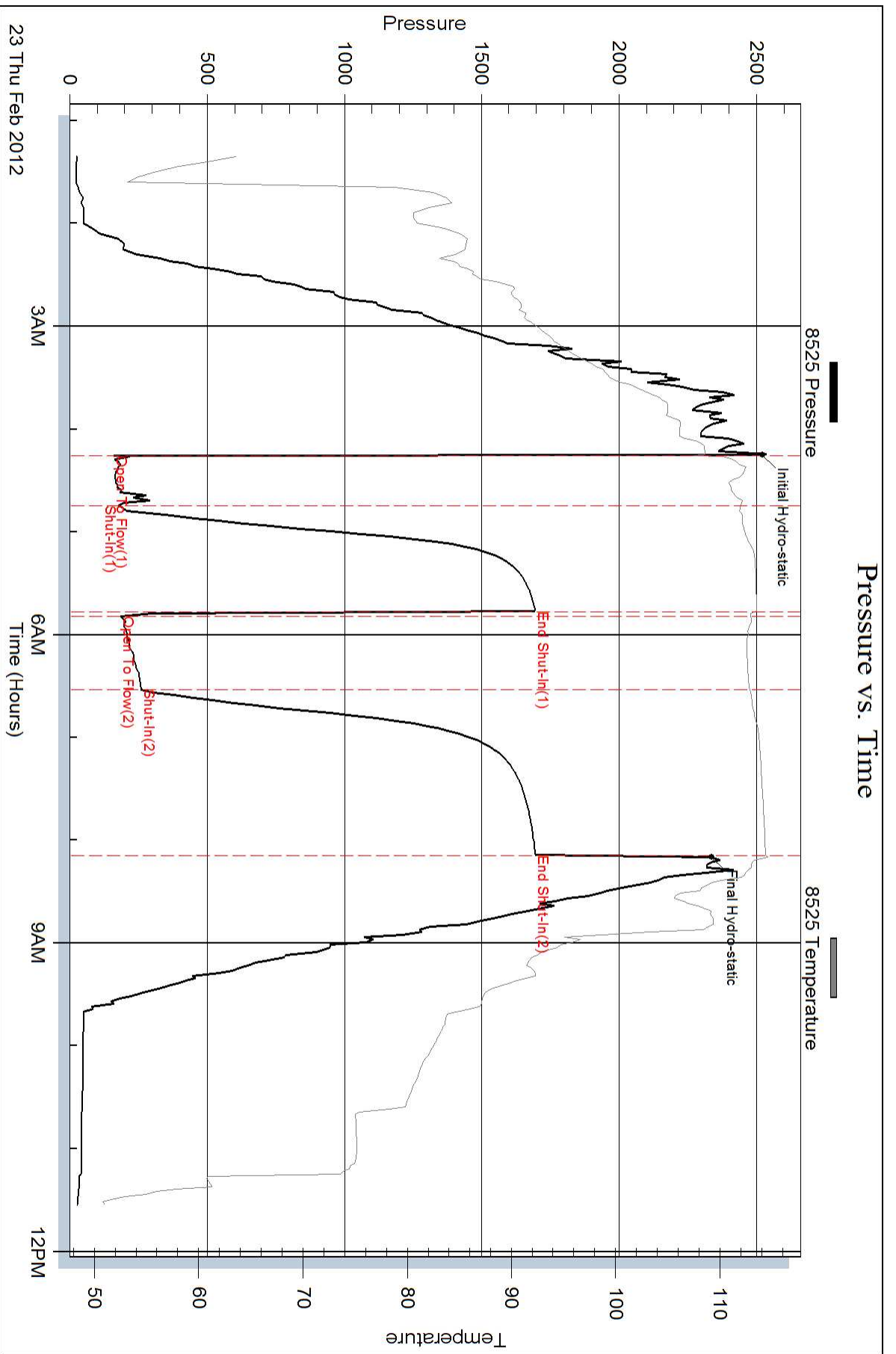
Length ft	Description	Volume bbl
60.00	Slightly gassy oil cut w atery mud	0.295
0.00	10%Gas 5%Oil 5%Mud 80%w ater	0.000
120.00	Oil cut w ater 80%oil 20%w ater	0.590
120.00	Heavy oil cut w atery mud	0.590
0.00	80%Oil %%mud 20%w ater	0.000
120.00	Oil cut muddy w ater 5%oil 75%mud20%w ate	1.683
120.00	Gassy mud 40%gas 60%mud	1.683
0.00	Chlorides190,000 resistivity .7 @65 dege	0.000
0.00	4972 gas in pipe	0.000

Total Length: 540.00 ft Total Volume: 4.841 bbl

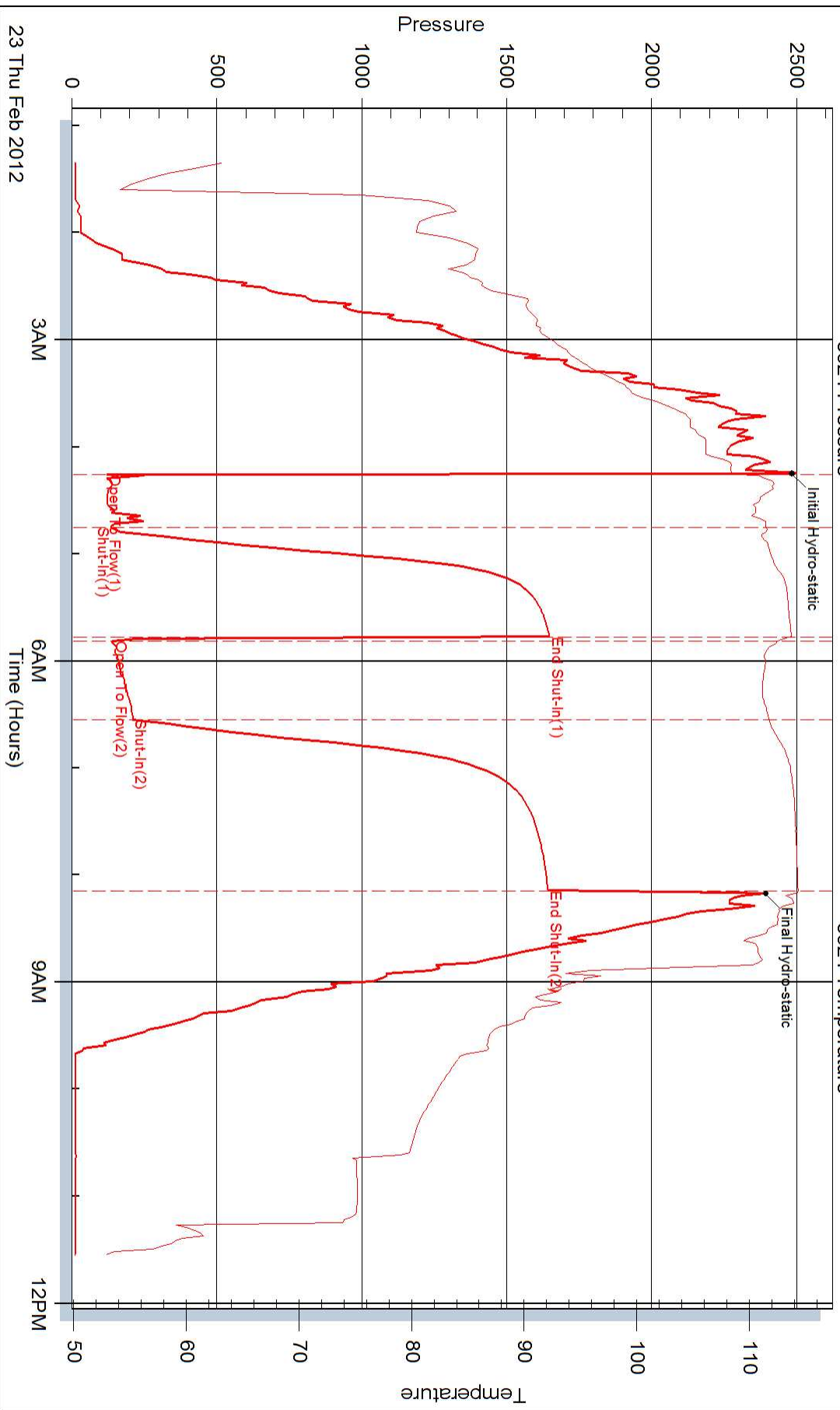
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Shell packer run for bottom packer?Gas to surface 10 minutes iinto 2nd opening see gas report/Gas sample w as taken



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company Inc**

Po Box 48788 Wichita KS 67202+1822

ATTN: Max Lovely

Hazel Thomas #1

20-32s-22w Clark

Start Date: 2012.03.01 @ 21:00:00

End Date: 2012.03.02 @ 10:22:00

Job Ticket #: 18747 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.03.04 @ 19:13:55



DRILL STEM TEST REPORT

Raymond Oil Company Inc

20-32s-22w Clark

Po Box 48788 Wichita KS 67202+1822

Hazel Thomas #1

ATTN: Max Lovely

Job Ticket: 18747

DST#: 2

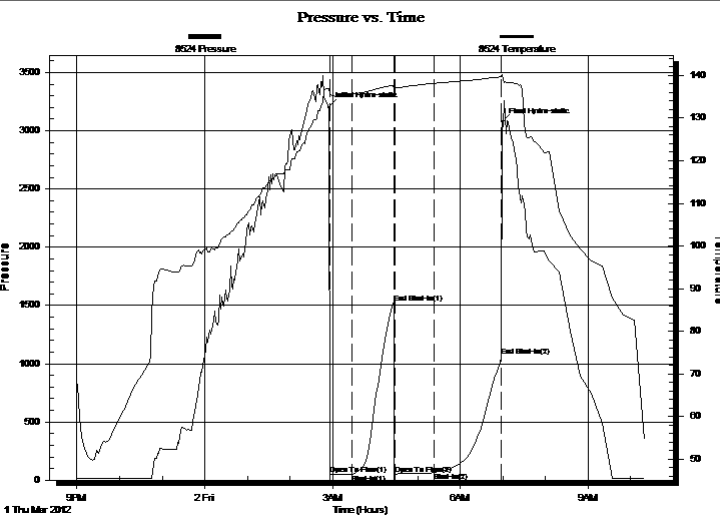
Test Start: 2012.03.01 @ 21:00:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:56:30
 Time Test Ended: 10:22:00
 Interval: **6674.00 ft (KB) To 6702.00 ft (KB) (TVD)**
 Total Depth: 6702.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Gb-260
 Reference Elevations: 2192.00 ft (KB)
 2183.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8524 Inside
 Press @ RunDepth: 1062.20 psia @ 6698.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.03.01 End Date: 2012.03.02 Last Calib.: 2012.03.02
 Start Time: 21:01:00 End Time: 10:20:00 Time On Btm: 2012.03.02 @ 02:55:00
 Time Off Btm: 2012.03.02 @ 06:59:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow died off 15 minutes into open built 1/2
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 45 Minutes-Weak surge died off flushed tool w eak surge did not build
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	3206.95	136.91	Initial Hydro-static
2	47.15	135.81	Open To Flow (1)
33	51.84	135.59	Shut-In(1)
92	1517.87	137.71	End Shut-In(1)
93	53.98	137.16	Open To Flow (2)
148	65.93	138.13	Shut-In(2)
244	1062.20	139.70	End Shut-In(2)
245	3072.91	140.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company Inc
 Po Box 48788 Wichita KS 67202+1822
 ATTN: Max Lovely

20-32s-22w Clark
Hazel Thomas #1
 Job Ticket: 18747 **DST#: 2**
 Test Start: 2012.03.01 @ 21:00:00

Tool Information

Drill Pipe:	Length: 6438.00 ft	Diameter: 3.80 inches	Volume: 90.31 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	130000.0 lb
			<u>Total Volume: 91.49 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	88000.00 lb
Depth to Top Packer:	6674.00 ft			Final	88000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	28.00 ft				
Tool Length:	56.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Ruined shell packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	6651.00	
Hydraulic Tool	5.00			6656.00	
Jars	6.00			6662.00	
Safety Joint	2.00			6664.00	
Packer	5.00			6669.00	28.00 Bottom Of Top Packer
Packer	5.00			6674.00	
Anchor	23.00			6697.00	
Recorder	1.00	8524	Inside	6698.00	
Recorder	1.00	8525	Outside	6699.00	
Bullnose	3.00			6702.00	28.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company Inc

20-32s-22w Clark

Po Box 48788 Wichita KS 67202+1822

Hazel Thomas #1

Job Ticket: 18747

DST#: 2

ATTN: Max Lovely

Test Start: 2012.03.01 @ 21:00:00

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 7400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

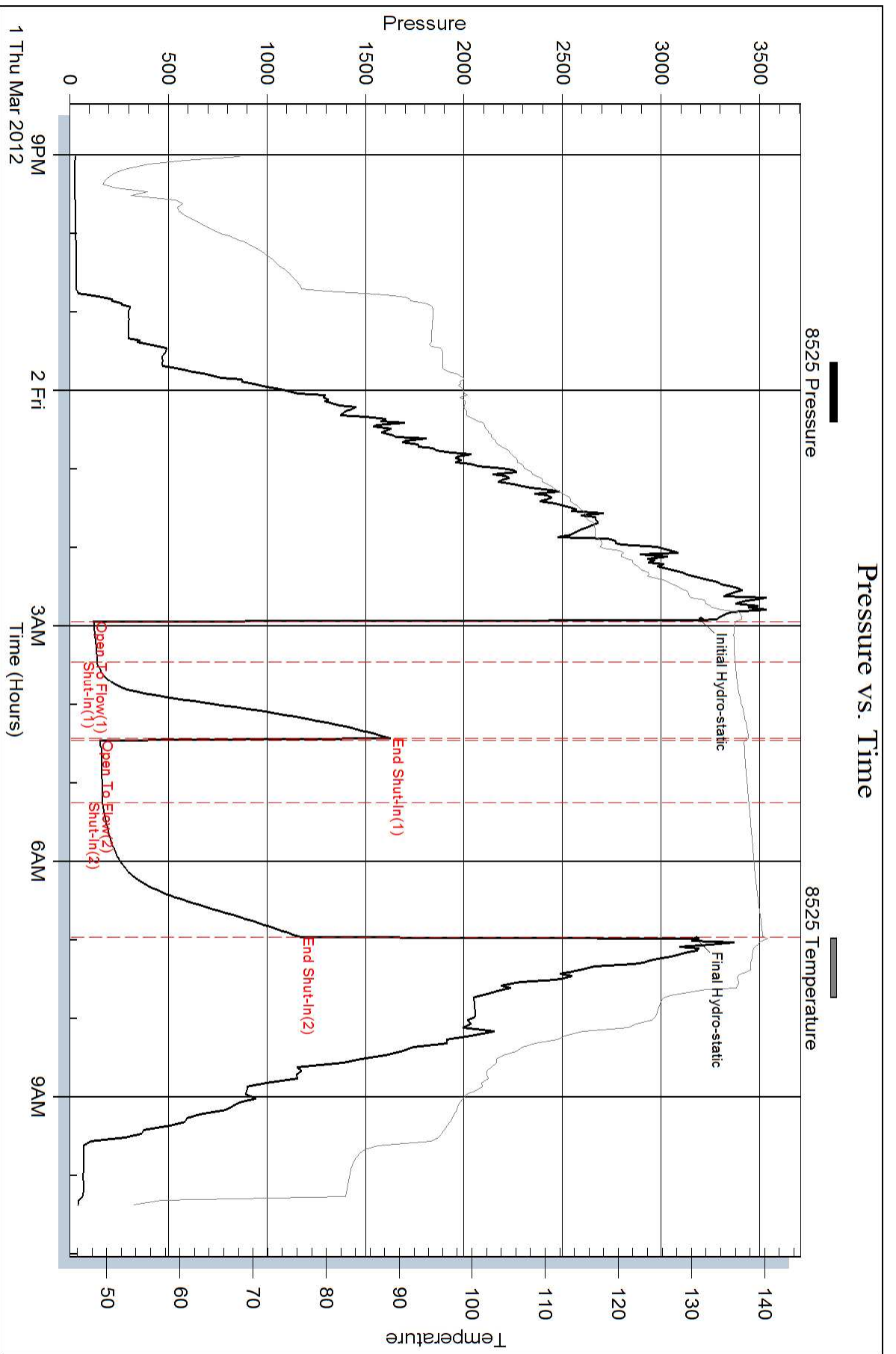
Num Gas Bombs: 0

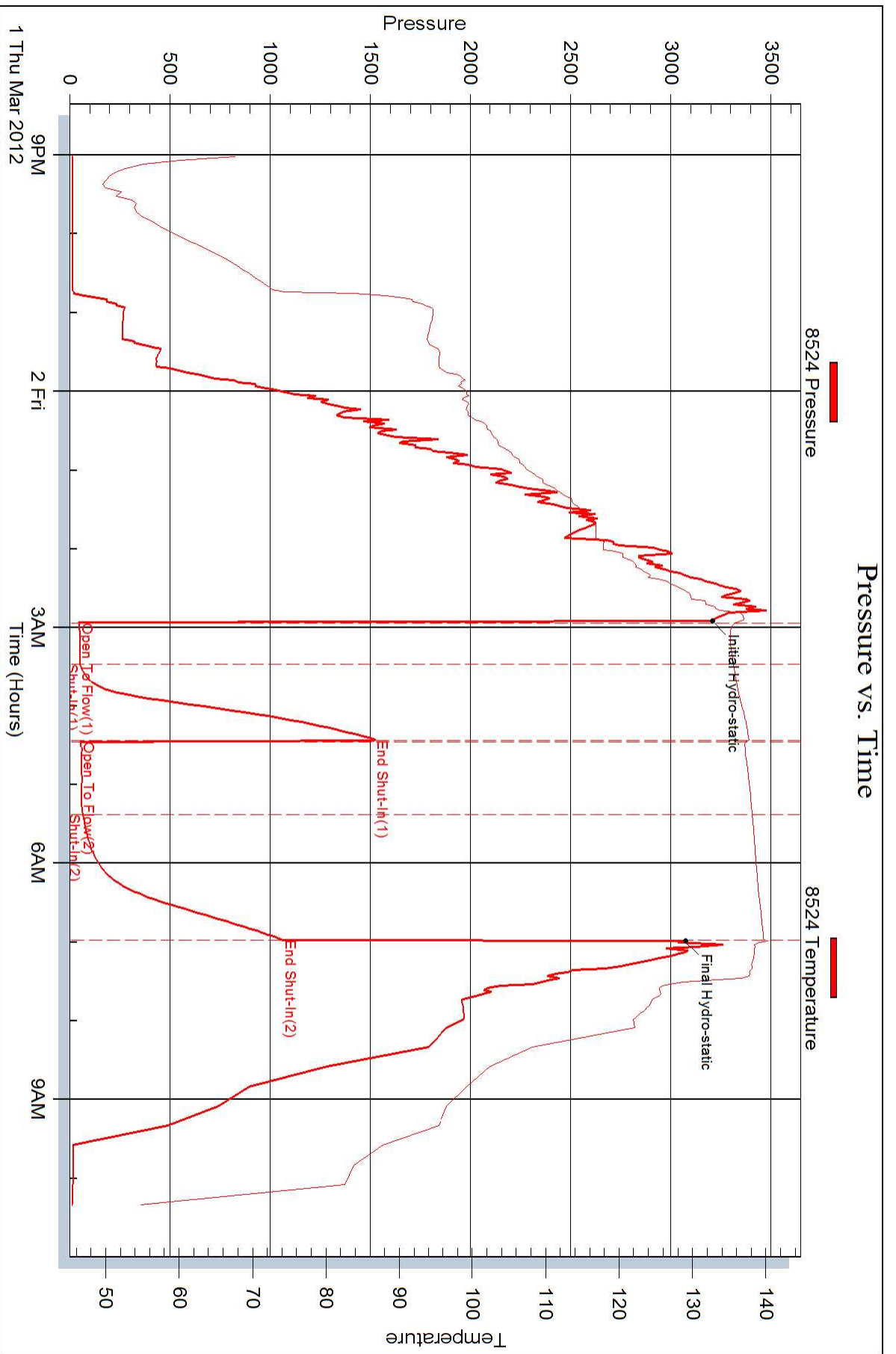
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Ruined shell packer







DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company Inc**

Po Box 48788 Wichita KS 67202+1822

ATTN: Max Lovely

Hazel Thomas #1

20-32s-22w Clark

Start Date: 2012.03.03 @ 03:00:00

End Date: 2012.03.03 @ 17:35:00

Job Ticket #: 18748 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.03.04 @ 19:11:40



DRILL STEM TEST REPORT

Raymond Oil Company Inc
 Po Box 48788 Wichita KS 67202+1822
 ATTN: Max Lovely

20-32s-22w Clark
Hazel Thomas #1
 Job Ticket: 18748 **DST#: 3**
 Test Start: 2012.03.03 @ 03:00:00

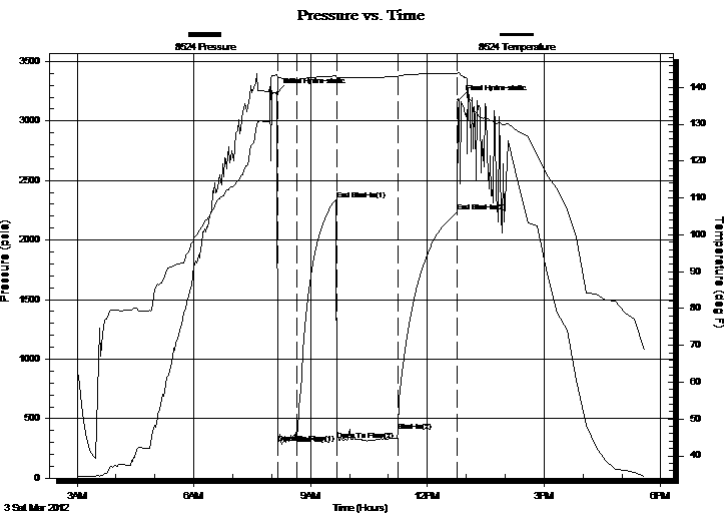
GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:09:00 Tester: Jared Scheck
 Time Test Ended: 17:35:00 Unit No: 3320-GB-260
 Interval: **6602.00 ft (KB) To 6800.00 ft (KB) (TVD)** Reference Elevations: 2192.00 ft (KB)
 Total Depth: 6800.00 ft (KB) (TVD) 2183.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 9.00 ft

Serial #: 8524

Press @ RunDepth: 395.51 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.03.03 End Date: 2012.03.03 Last Calib.: 2012.03.04
 Start Time: 03:01:00 End Time: 17:35:00 Time On Btm: 2012.03.03 @ 08:08:00
 Time Off Btm: 2012.03.03 @ 12:48:30

TEST COMMENT: 1st Opening 30 Minutes-Weak sblow built 5 inches into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 90 Minutes-Weak blow built bottom of bucket in 60 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	3233.90	143.43	Initial Hydro-static
1	296.11	142.77	Open To Flow (1)
31	361.65	142.06	Shut-In(1)
92	2341.87	143.09	End Shut-In(1)
93	320.95	142.72	Open To Flow (2)
187	395.51	143.00	Shut-In(2)
278	2234.24	143.82	End Shut-In(2)
281	3179.48	144.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud	0.32
60.00	Mud	0.30
120.00	Gassy mud 10% ggas 90% mud	0.59
120.00	Gassy mud cut oil 5% gas 5% oil 90% mud	1.18

Gas Rates

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



DRILL STEM TEST REPORT

Raymond Oil Company Inc
 Po Box 48788 Wichita KS 67202+1822
 ATTN: Max Lovely

20-32s-22w Clark
Hazel Thomas #1
 Job Ticket: 18748 **DST#: 3**
 Test Start: 2012.03.03 @ 03:00:00

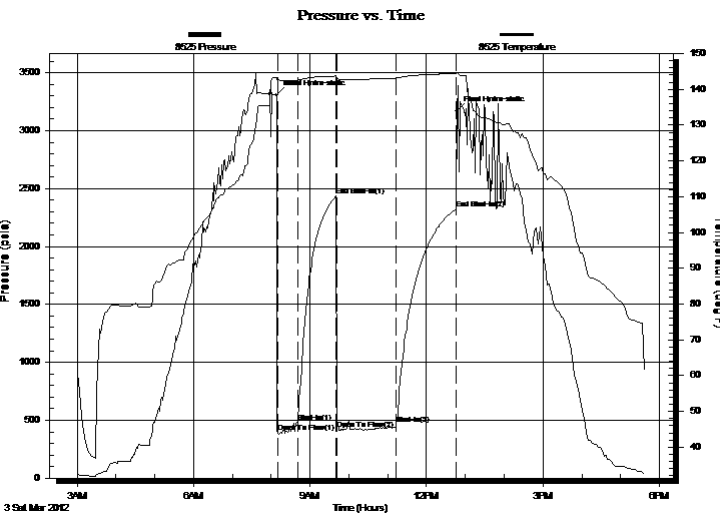
GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:09:00 Tester: Jared Scheck
 Time Test Ended: 17:35:00 Unit No: 3320-GB-260
 Interval: **6602.00 ft (KB) To 6800.00 ft (KB) (TVD)** Reference Elevations: 2192.00 ft (KB)
 Total Depth: 6800.00 ft (KB) (TVD) 2183.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 9.00 ft

Serial #: 8525

Press @ RunDepth: 2326.99 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.03.03 End Date: 2012.03.03 Last Calib.: 2012.03.04
 Start Time: 03:01:00 End Time: 17:39:00 Time On Btm: 2012.03.03 @ 08:08:00
 Time Off Btm: 2012.03.03 @ 12:47:00

TEST COMMENT: 1st Opening 30 Minutes-Weak sblow built 5 inches into water in 30 minutes
 1st Shut-in 60 Minutes-No blow back
 2nd Opening 90 Minutes-Weak blow built bottom of bucket in 60 minutes
 2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	3308.48	143.29	Initial Hydro-static
2	399.01	142.63	Open To Flow (1)
33	486.63	142.56	Shut-In(1)
92	2434.59	143.73	End Shut-In(1)
94	421.06	142.97	Open To Flow (2)
186	468.64	143.16	Shut-In(2)
278	2326.99	144.43	End Shut-In(2)
279	3170.86	144.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Mud	0.32
60.00	Mud	0.30
120.00	Gassy mud 10% ggas 90% mud	0.59
120.00	Gassy mud cut oil 5% gas 5% oil 90% mud	1.18

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company Inc
 Po Box 48788 Wichita KS 67202+1822
 ATTN: Max Lovely

20-32s-22w Clark
Hazel Thomas #1
 Job Ticket: 18748 **DST#: 3**
 Test Start: 2012.03.03 @ 03:00:00

Tool Information

Drill Pipe:	Length: 6278.00 ft	Diameter: 3.80 inches	Volume: 88.06 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 300.00 ft	Diameter: 2.25 inches	Volume: 1.48 bbl	Weight to Pull Loose:	170000.0 lb
			<u>Total Volume: 89.54 bbl</u>	Tool Chased	30.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	90000.00 lb
Depth to Top Packer:	6602.00 ft			Final	90000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	198.00 ft				
Tool Length:	226.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Chased tool 30 feet to bottom of hole/Ruined bottom packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	6579.00	
Hydraulic Tool	5.00			6584.00	
Jars	6.00			6590.00	
Safety Joint	2.00			6592.00	
Packer	5.00			6597.00	28.00 Bottom Of Top Packer
Packer	5.00			6602.00	
Anchor	5.00			6607.00	
Change Over Sub	0.75			6607.75	
Drill Pipe	151.50		Outside	6759.25	
Change Over Sub	0.75		Outside	6760.00	
Anchor	35.00			6795.00	
Recorder	1.00	8524	Inside	6796.00	
Recorder	1.00	8525	Outside	6797.00	
Bullnose	3.00			6800.00	198.00 Bottom Packers & Anchor

Total Tool Length: 226.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company Inc
 Po Box 48788 Wichita KS 67202+1822
 ATTN: Max Lovely

20-32s-22w Clark
Hazel Thomas #1
 Job Ticket: 18748 **DST#: 3**
 Test Start: 2012.03.03 @ 03:00:00

Mud and Cushion Information

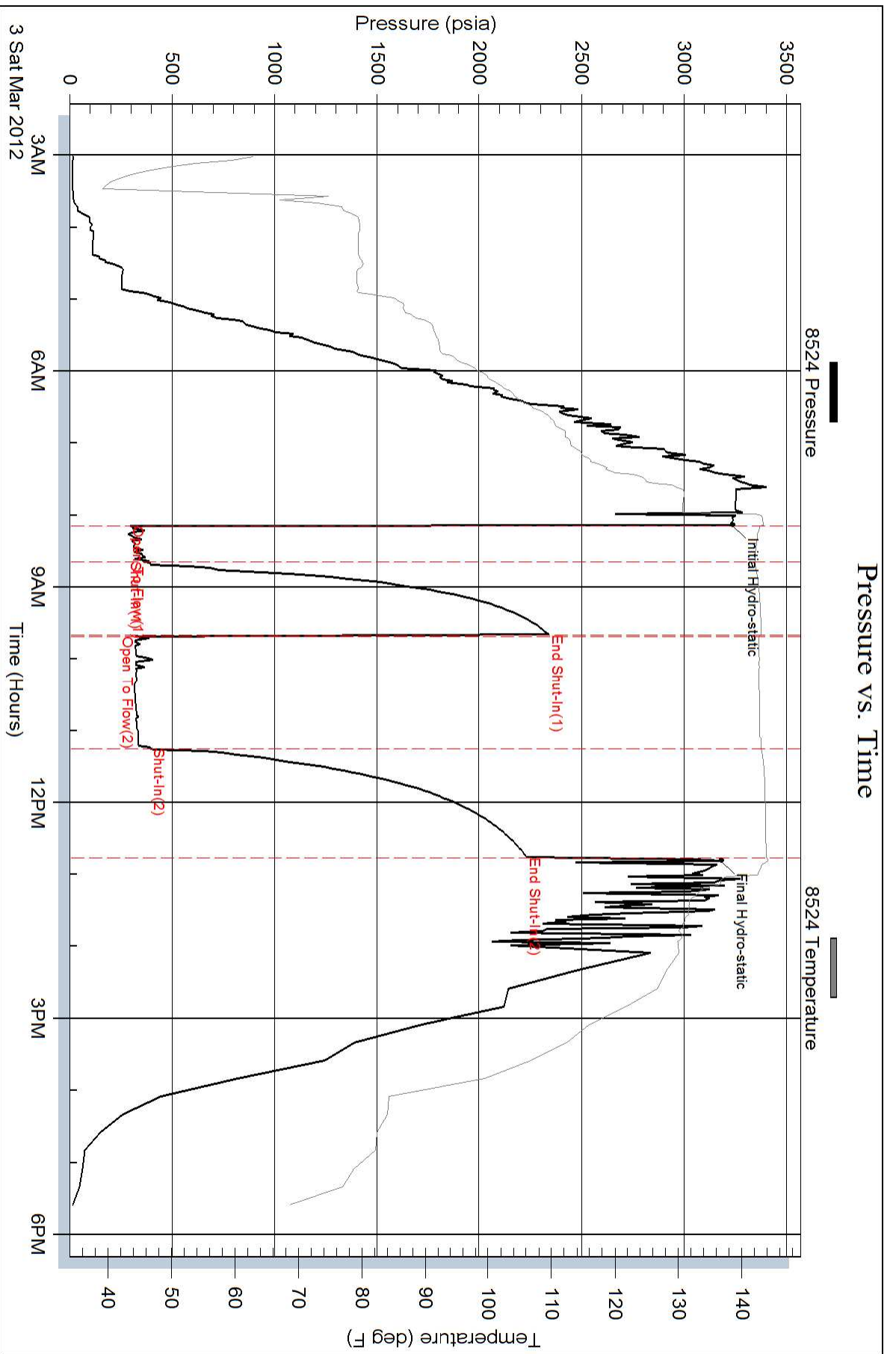
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 10200.00 ppm			
Filter Cake: 1.00 inches			

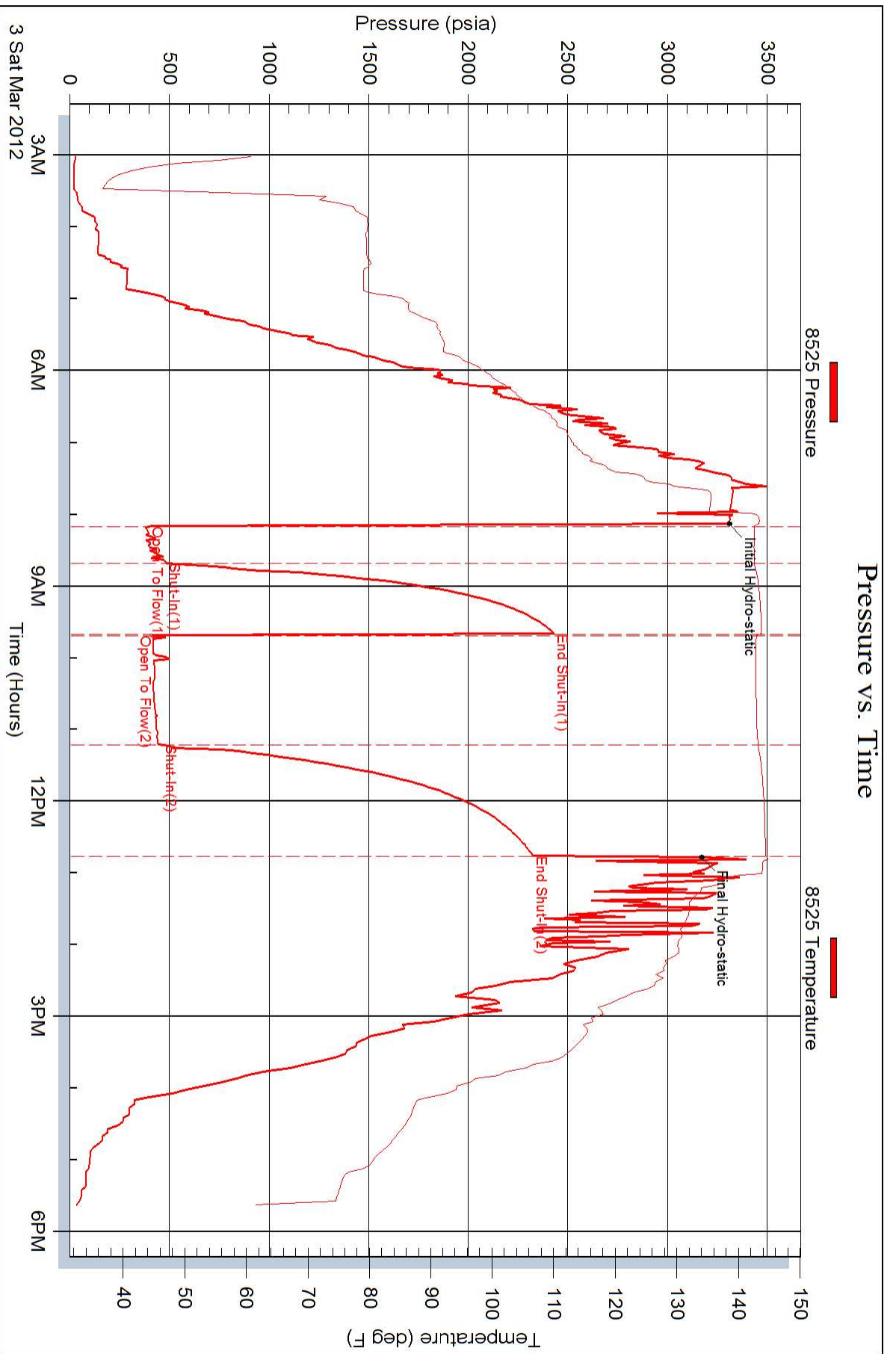
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Mud	0.320
60.00	Mud	0.295
120.00	Gassy mud 10% ggas 90%mud	0.590
120.00	Gassy mud cut oil 5%gas 5%oil 90%mud	1.182

Total Length: 365.00 ft Total Volume: 2.387 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Chased tool 30 feet to bottom /Ruined bottom of packer

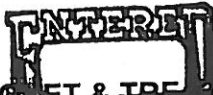






CONSOLIDATED
Oil Well Services, LLC

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



FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 33892
LOCATION Oakley ks
FOREMAN Walt Dinkel

Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-5-12	7158	Hazel Thomas #1	20	32 ^S	22 ^W	Clark

CUSTOMER	ASHLAND	TRUCK #	DRIVER	TRUCK #	DRIVER
Raymond Oil Co.	4N	399	Damon Miller		
MAILING ADDRESS	1-E	566	Bobby Stewart		
CITY					
STATE					
ZIP CODE					

JOB TYPE Pool HOLE SIZE 7 7/8 HOLE DEPTH 6800' CASING SIZE & WEIGHT 4 1/2 - 10.2 #
 CASING DEPTH 5194 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 42'
 DISPLACEMENT 82 1/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE 5-6 BPM

REMARKS: Safety Meeting, rig up on H-2 #2, ran Float Equipment
Cent #1-3-5-9-11-13, Baskets #1-#4, Circ Casing on bottom, 30 min
mixed 30 sks in R.H., 20 sks in D.H.,
mixed 225 sks @ 40ppm, 7 1/2 % Salt, 2% Gel, clear Pump Lines
release Plug + Displace 82 1/2 BBL H₂O @ 500 # max, Landed Plug
@ 4,000 #. Last returns @ 7.5 BBL out on Displacement
Float Held

*Thank You
Walt + Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54012	1	PUMP CHARGE	3,000 ⁰⁰	3,000 ⁰⁰
5406	60	MILEAGE	5 ⁰⁰	300 ⁰⁰
1131	275 sks	60/40 po2	15 ¹⁰	4,152 ⁵⁰
1111	983 #	Salt	145	442 ³⁵
1118B	474 #	gel	25	118 ⁵⁰
5407A	11.83	Tow mileage Delivery	167	1,185 ⁶⁰
4201	1	4 1/2 - Guide Shoe	138 ⁰⁰	138 ⁰⁰
4226	1	4 1/2 - AEU insert	193 ⁰⁰	193 ⁰⁰
4129	6	4 1/2 - Centralizers	46 ⁰⁰	276 ⁰⁰
4103	7	4 1/2 - Baskets	261 ⁰⁰	522 ⁰⁰
4404	1	4 1/2 - Rubber Plug	53 ⁰⁰	53 ⁰⁰
				10,400 ⁹⁵
		Less 10% Disc		6,040 ¹⁰
				9,360 ⁸⁵
		248258	SALES TAX	334.28
			ESTIMATED TOTAL	9695 ¹³

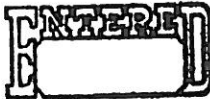
Ravin 3737

AUTHORIZATION *Alber* TITLE *Foreman* DATE _____

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.



CONSOLIDATED
Oil Well Services, LLC



TICKET NUMBER 33854
LOCATION Oakley
FOREMAN Kelly Gabel
watt Dinkle

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

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-16-12	7158	Hazel Thomas #1	20	32	22	Clark
CUSTOMER <u>Raymond oil</u>			Ashland E to Dodge Rd 3N to Qrd E & N into			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			599	Damon M		
STATE			566	Chris Beck		
ZIP CODE			528	Jim Meade		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 941 CASING SIZE & WEIGHT 8 5/8 24#
CASING DEPTH 941 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 42'
DISPLACEMENT 57 1/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting, Rigged up on H² drilling Rig #2. Hooked up to circulate. Mixed 550sk 65/35 Poz 690 gel 390 CC 1/2# Flo-seal, shut down, released plug & displaced with 00/water, shut in, washed out pumps & lines, Rigged down & left location. 150sk com. 390 CC tail cement CENT 5, 10, 15

Cement did Circulate

approx 25 DBL topit

Thank you Kelly & 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	5 ⁰⁰	300 ⁰⁰ +
1127A	550sk	65/35 Poz	15 ²⁰	8360 ⁰⁰ +
11045	150	Class A cement	17 ⁶⁵	2647 ⁵⁰ +
1118B	2871#	Bentonite	*25	717 ⁷⁵ +
1102	1258#	Calcium chloride	*89	11653 ⁶³ +
1107	138	Flo-seal	2 ⁸²	389 ¹⁶ +
5407A	3.1	TON Mileage delivery	162	3106 ²⁰ +
41132	3	8 5/8 centralizer	82 ⁰⁰	246 ⁰⁰ +
41329	1	8 5/8 AFU insert	298 ⁰⁰	298 ⁰⁰ +
4411	1	8 5/8 Rubber Plug	135 ⁰⁰	135 ⁰⁰ +
				18,938 ²³
				1893 ⁸²
				17044 ⁹⁶
		247882	SALES TAX	819.15
			ESTIMATED TOTAL	17863.56

Revin 3737

2:25AM 2-17-12

AUTHORIZATION Steven Craig

TITLE Tool Pusher

DATE 2-16-12

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.

Max R. Lovely

Robert Turner

Raymond Oil Co.
Hazel Thomas #1
Wildcat

2192

30' S SW NE
20 32

2181

Clark

KS

22W

KB

H2 #2

8 5/8" @ 941'

2-14-2012

3-4-2012

4 1/2

6799

6800

COMP N/D MICRO
DI SONIC FF

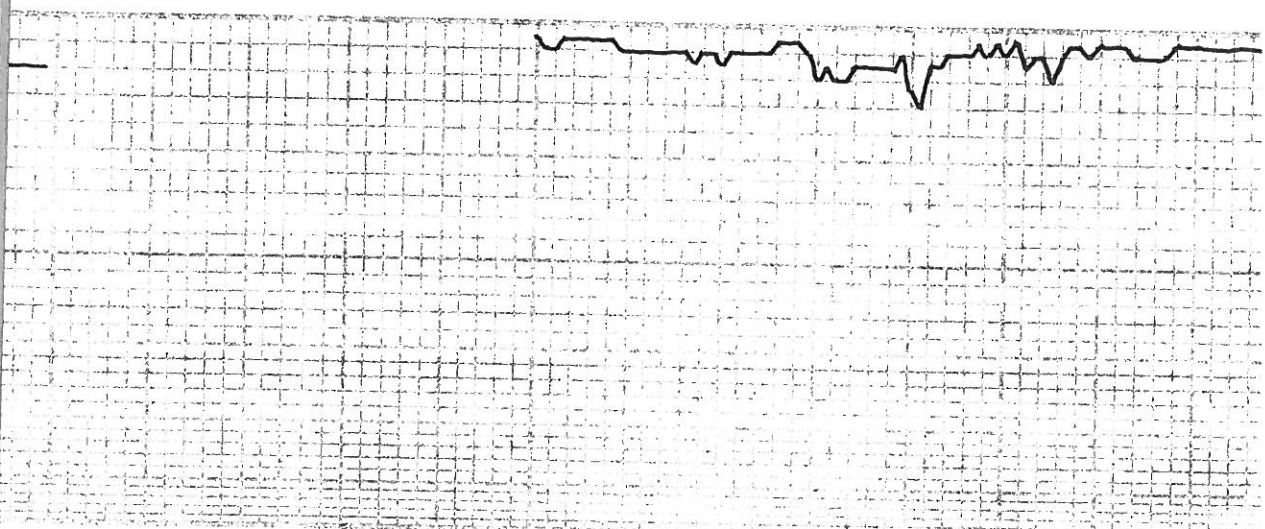
3551

Chem

Heobner	4386			-2188
Lansing	4602	4598	-2402	-2403
Muncie SH	4620	4616	-2620	-2622
Stark	4996	4993	-2797	-2797
Marmaton	5124	5120	-2924	-2925
Allamont	5164	5155	-2969	-2967
Pawnee	5209	5204	-3008	-3007
Cherokee SH	5262	5259	-3063	-3062
Morrow SH	5375	5377	-3181	-3180
St. Genevieve	5470	5466	-3270	-3270
St. Louis	5556	5566	-3370	-3355
Cowley	6188	6186	-3900	-3901
Viola	6583	6575	-4379	-4387
Viola Poro.	6676	6671	-4475	-4483

REFERENCE WELLS FOR STRUCTURE

Diversified Operatin Thomas 20-7-1 SW NE 20-32-22W



AMHYDRITE
1194 ± 998
1200

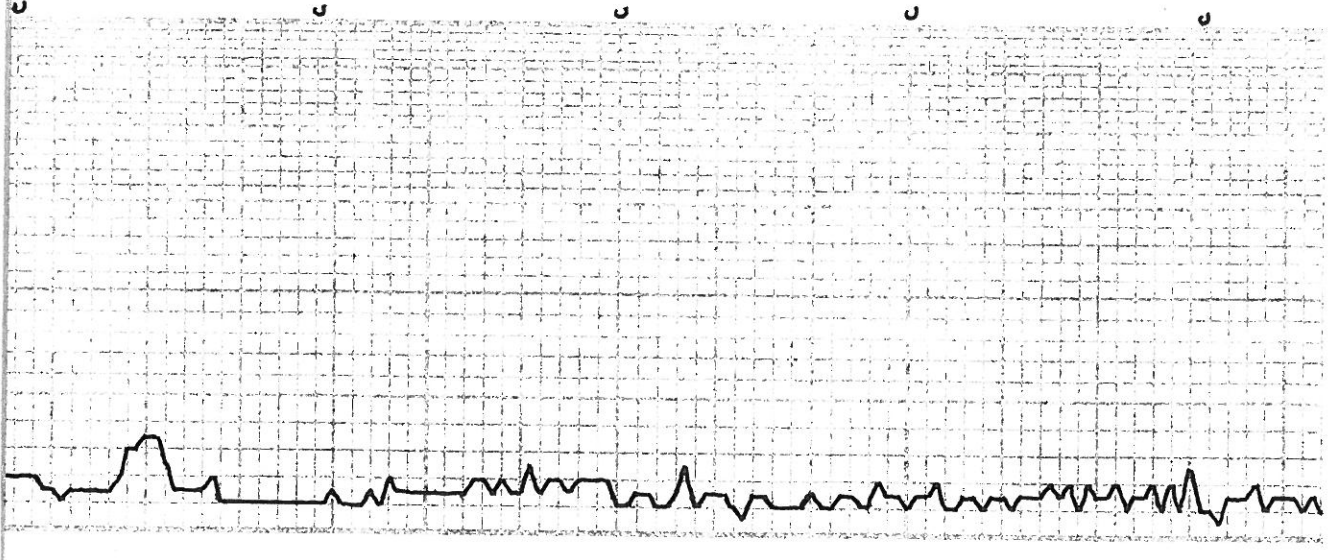
BASE
AMHYDRITE
1220 + 972

4200

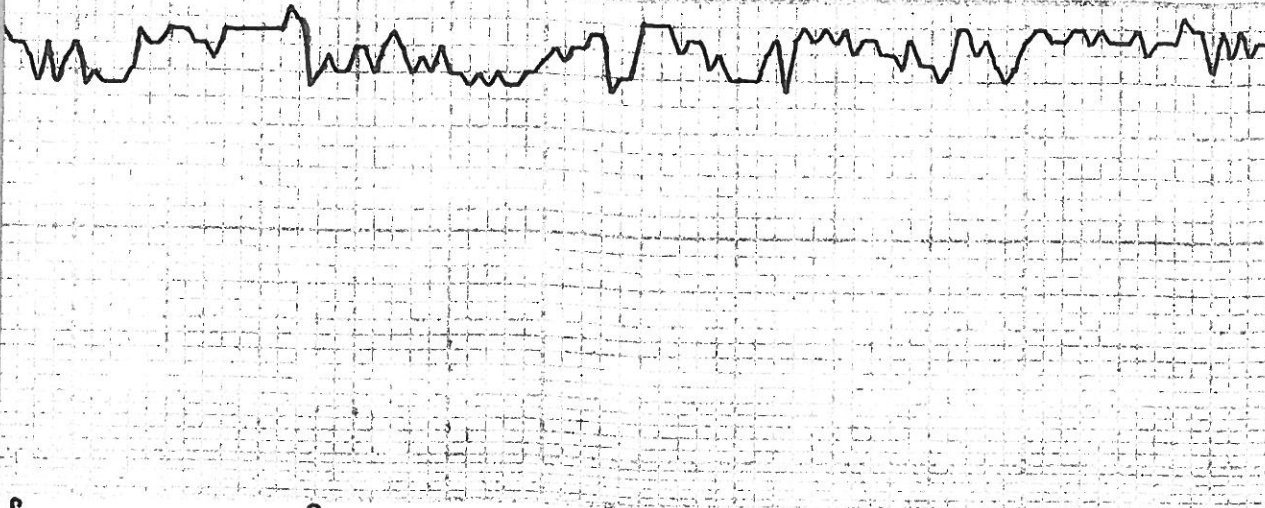
VIS HS
WT 90
LCM 3

RPM 65
WOB 3900
SPM 60
PP 850

4300



11 LS.CRM. RUFF F. M. H. T. L. N. S. L



HEE SWER
4386-2190

4400

LS, CRM, BUFF, F → M XTLN, SL
GRNLR TXT, MHRD, FXTLAD
NS
A A
A A
A A
A A

SS, GRYCMT, CLR GRNS, SUB
ANL → SUB RND GRNS, W SORT
F GRNS, G. INT G R NLR P, NS

SH, BLK

SH, GRY

LS, WHT, FXTLN, SOFT, VF
XTLN P, NS

LS, BRN, FXTLN, DR BRN +
WHT SCT XTLN W/N, P XTLN
P, FDSS, W/S

LS, TAN, FXTLN, M HRD, FOSS
No P, MS

A.A.

SLTSTN, GRN

SLTSTN, LTGRY, SCT CARB

LS, TAN, F → MXTLN, M HRD,
BRITL, P, MS

LS, TAN/WHT, MXTLN, SOFT,
VF FOSS, FXTLN P, MS

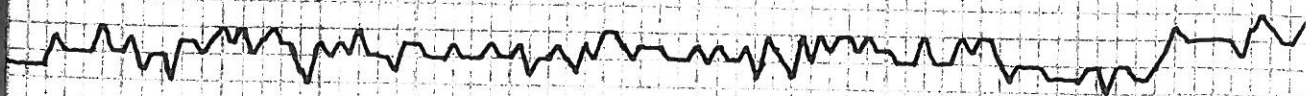
SH, GRN, GRN

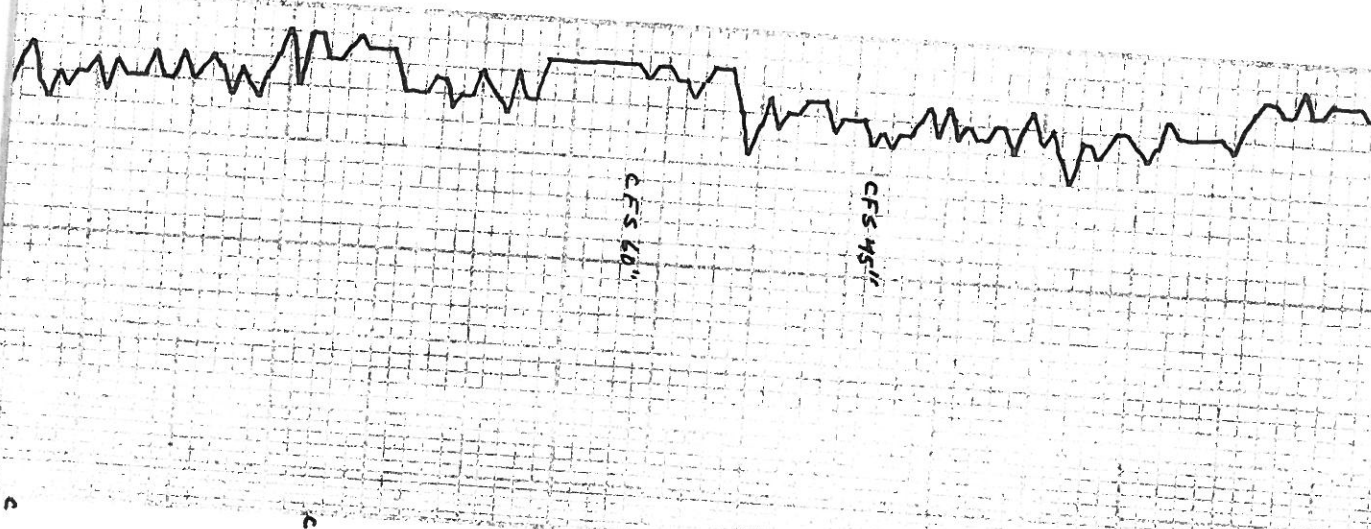
LS, BRN, VFXTLN, DMS, HRD,
FEW FOSS, TITE, MS

LS, WHT, FXTLN, SCT LG XTL

4500

BROWN LIME
4578-2382





BROWN LIME
4578-2582

LANSING
4600

4602-2406

35'
4630-2434

4700

S H, GRV, GRN

L5, BRN, VEXTLN, DNS, HRD,
FEW FOSS, TITE, NS

L5, WHF, FXTLN, SCT LG XTLN
W/W, HRD, TITE, NS

L5, BRN, VEXTLN, DNS, VHRD,
FEW FOSS, NO APPD, NS

L5, BUFF, FXTLN, S → m HRD,
V FOSS, OOL

L5, LTTAN, CR5 TTY, M → CR5 ITLN,
GXTLN, V SL, SHD GAS, FLASH VSSG
OF GAS, RAINBOW

L5, GRM/TAN, 50 FT CHLKY,
FXTLN, SCT DD FIBROUS
D STNG

CHLK, SCT BRN KER STNG

L5, WHI, TAN, FXTLN, DNS, HRD,
TITE, V FEW FOSS, NS

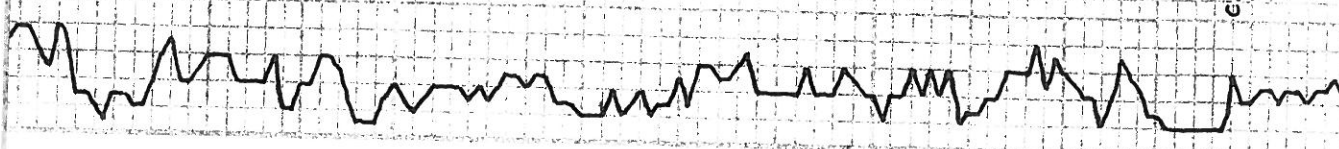
L5, WHI/TAN, M → CR5 XTLN, DNS,
HRD, FOSS, P Ø, NS

L5, GRV, FXTLN, SOFT, V FOSS
FRAG, NS

L5, BRN, FXTLN, HRD, SL DNS,
SCT FOSS, NO APPD, NS

L5, CRM, WHI, FXTLN, V DNS,
VHRD, WCMT D OOLS + FOSS,
NS

-7:1AM 2.22.2012
CIRC @ 4643'



CHT, BRN, ? FRAC'D, FOSS, NS
 LS, TAN / BRN, V FXTLN, V W CMTD, FOSS, LG FOSS, TITE, NS
 LS, BUFF, F → M XTLN, V FEW FOSS, S → M HRD, F → G INT XTLN, WET, NS
 LS, GRY, V FXTLN, V DMS, V HRD, TITE, NS
 LS, BUFF, F XTLN, SOFT, V OOL & OOM, SL CHLKY, G INTOOL, NS
 LS, BLK, V FXTLN, HRD, V SL FOSS, HRD, NO APP, NS
 CHT, BLK, WHT A STRKS
 LS, CRM, BUFF, V FXTLN, SOFT, CHLKY
 SH, BLK, GRY
 LS, CRM, WHT, F XTLN, V OOL & FOSS, FLUR, M HRD, BR TL, SCT FLUR, 0 SPTS, 1 WCR, 0 ON BRK, V SL G, 0 BLS, V SL SLO BLEED, F → G, FEW FLUR 0 SPTS IN CUP, TOPOR
 LS, BUFF / TAN, F RTI, ATIC

115.10

C

C

4800

MUNNIE
 4820 - 2624
 140'
 4830 - 2634
 DEV 14°



CFS 40"

DOWN FOR GEOLOGRAPH REPAIRS

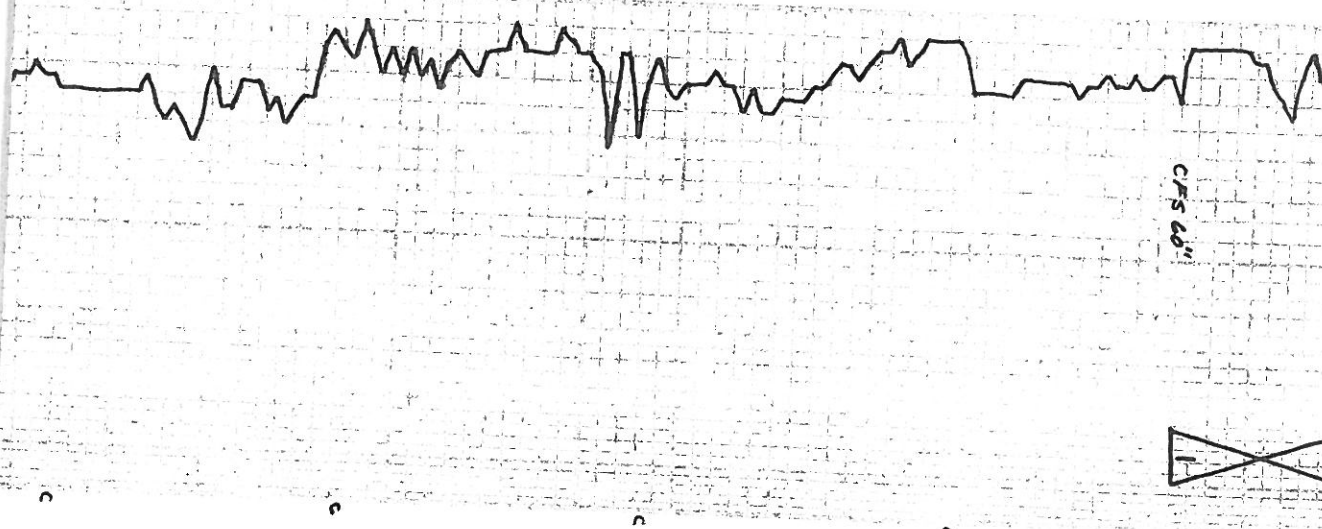
MUD CHECK
 VIS 40 WT 9.1
 CHLOR 13,500 LCM2
 FILT 13.2

DST 1 4818-4838
 IF: 808 7" 151:10"
 FF: 808 1" FSI: 10"
 GTS (2ND) 10"
 39 10.63 MCF 1/4 CHOKE
 REC: 60' O + MCGW
 5% O, 5% M, 10% G, 80% W

240' WCO
 20% W, 80% O
 120' OCWM
 5% O, 20% W, 75% M
 120' GM
 40% G, 60% M
 190,000 CHLOR
 FP: 161-179, 185-259
 SIP: 1694-1695
 HP: 2520-2335

STRAP 4856.19
 BOARD 5861.70
 short 4.51

HW 9.5
 C1.7 7:AM 2:23:2012
 C2.3 DST 1 @ 4838'
 MUD CHECK



4820-2624

14D'

4830-2634

DEV 14°

SH, BLK, GRAY

LS, CRM, WHT, F, XTLN, V, OOL + FOSS, FLUOR
 M, HRD, BRK, SCT, FLUOR, SPTS, O SPTS
 INCR, D, OW, BRK, V, SL, G, B, BLS, S
 V, SL, SLO, BLEED, F, → G, O, FEW
 FLUOR, O, SPTS, IN, CUP, ? O, BOR

STRAP 4856.19
 BOARD 5861.70
 short 4.51
 HW 9.5
 BLEED C1.7
 C2.3 7:AM 2.23.2012
 DST 1 @ 4838'

LS, BUFE / TAN, F, XTLN, M, ATIS
 W, M, HRD, SCT, V, V, Y, Ø, NS

MUD CHECK
 V.153 wt 9.1
 CHLOR 15,200 LCM 2
 FILT 14.8

SH, GRAY

LS, WHT, F, XTLN, SET, CR, S, XTL, S,
 SCT, FOSS, F, → G, INT, XTLN, Ø,
 NS

LS, GR, F, XTLN, SL, BU, CRTX,
 HRD, V, SL, FOSS,

4900

LS, TAN, BRN, V, F, XTLN, V, HRD,
 DMS, ΔTY (BRN), TITE, NS

LS, CRM / WHT, V, XTLN, F, → G,
 XTLN, Ø, BR, TTL, NS

RPM 70
 WOB 38,000
 SPM 60
 PP 800

V.1548 wt 9.0
 LCM 2

LS, WHT / GR, V, F, XTLN,
 V, DMS & HRD, TITE, NS

CLEAN JARE GAS UNIT

LS, CRM, BRN, FOSS + FRAGS
 INCLUS, REW, HRD, R, EXTLD
 + W, CM, TD, TITE, NS

LS, TAN, V, F, XTLN, V, DMS & HRD,
 TITE, NS

LS, AA, BRN
A A
A A
A A
A A

DM, DK GR, SHARP, 2 FRAC

SH, GR, DK GR, HRD, SCTY

STARK
4996-2800
5000

SH, BLK, BRNTNGE, SLTY,
GASSY
LS, CRM, WHT, VFXTLN, DMS, HRD,
FOSS, W CRT'D, TITE, NS

GASSY NO GAS KICK

LS, CRM, WHT, FXTLN, SOFT,
CHKY, FEW FOSS, F-G, FRAC
+ XTLM, NS

LS, WHT, VFXTLN, BRTL, FOSS +
FRAGS W CRT'D W/M, NO APP
NS

SH, GR

MUSHPOCKNEY
5048-2857

SH, BLK, GASSY

LS, TAN, FXTLN, HRD, FOSS, TITE
NS

-7: AM 2.24.12
DRLG @ 5046

70 MW
230 CI
110 C2

AS, BRN, VFXTLN, V HRD + DMS,
TITE, NS

SH, GR





5100
BKC

5104 - 2908

SH, GRV

LS, LT GRV, FXTLW, SL DMS, HRD,
SCT FOS, NO APP. MS

SH, GRV, DK GRV, CARB

SH, GRN

LS, GRV/TAN, BRN, FXTLW, Pcs
GRMLR TXT, V HRD, TITE, MS

LS, TAN, V FXTLW, HRD, V W CNTID
FOS, ABUN FOS, VARI SIZE,
NO APP. MS

RA. GRN

LS, GRM, WHT, A.A.

LS, WHT, FXTLW W/LG XTS W/M, SML RND
SL CHLKY, SOFT → HRD, Pcs
V SL GAS, LIT OIL, LT YLW
FLUR, SL SCT YUG. \$ ACID
MWT CUT OIL OFF ROCK

LS, SPLATTER
FLUR OIL
V LIT OIL

VIS 49
WT 9.2
LCM TR

MUD CHECK
VIS 50 WT 9.15
CHLOR 12,600 LCM3
FILT 10.4

DOWN FOR RIG REPAIRS

ATTAMONT
5164 - 2968

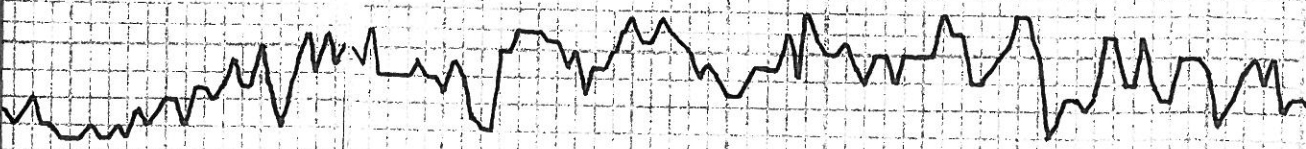
5200

PAWNEE
5209 - 3013

SH, BAK

LS, WHT, CHLKY, FXTLW, DMS,
HRD, TITE, MS

LS, GRV/BRN, V FXTLW, V HRD

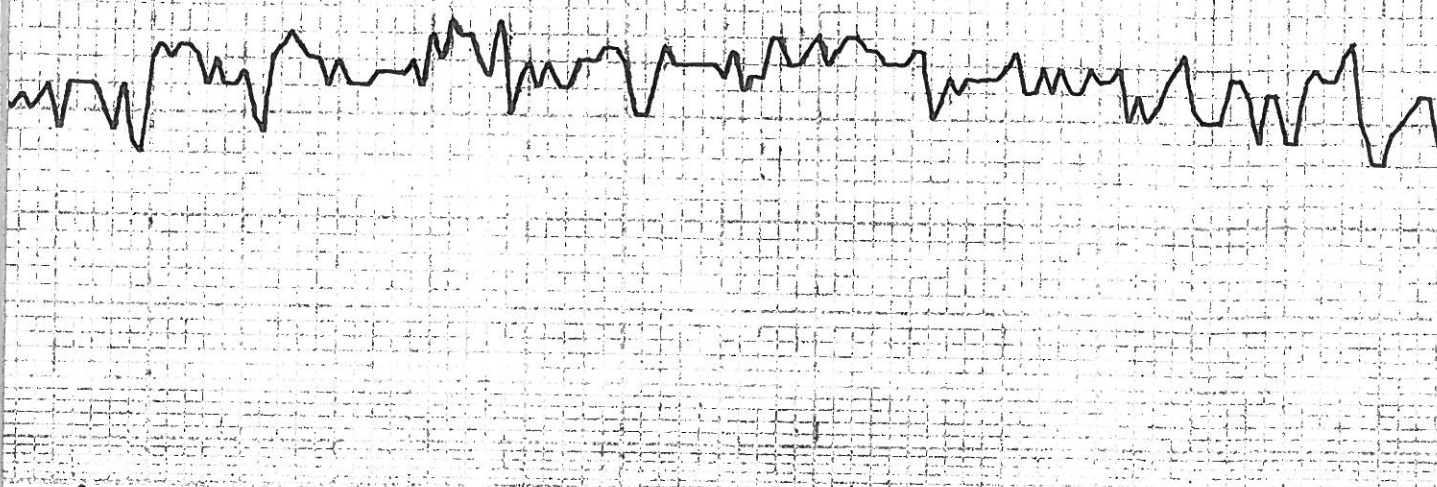


DNS SCT FOSS, TITE, NS
 LS, CRM, FXTLN, SOFT, CHLKY, NS
 CHT, WHT, FOS
 LS, CRM, FXTLN, MHRD, CHLKY, NS
 SH, DK GRY
 LS, CRM, WHT, FXTLN, MHRD, -HRD, FOSS, NO APP O, NS
 SH, BLK
 LS, BRN, VFXTLN, V DNS, +HRD, TITE, 3 FRAC'D, NS
 SH, LT + DK GRY
 LS, BRN, VFXTLN, DNS, HRD, TITE, NS
 LS, BLK, FXTLN, VHRD, SCT FOSS, TITE, NS
 SH, GRY, GRN, LAYERED, Pcs SNDY
 SH, BLK
 LS, TAN, WHT, VFXTLN, DNS, HRD, TITE, NS

CHERRYBEE
 5262 - 3066

5300

7:AM 2.25.12
 DRLG@5318'



Foss, TITE, NS

SH, GRY, GRN, LAYERED,
PES SMDY

SH, BLK

LS, TAN/WHT, VEXTLW, DMS
HRD, TITE, NS

LS, GRY, VEXTLW, DMS, HRD,
SCT FT FLUOR STAG, FEW
FLUOR PES ON BRK, NO ADDR,
TITE, THIN 2 DWE

FLUOR
PES
STAG

SH, DK GRY

LS, TAN, F XTLW, SL DMS,
M HRD, FOSS, ND APP, NS

SH, GRY, SL SMDY

LS, TAN/WHT, VEXTLW, DMS,
HRD, TITE, NS

LS, CRM, EXTLW, DMS, HRD,
TITE, NS

LS TAN, F XTLW, V DMS, HRD,
FOSS, FOSS.. WCM T D, TITE, NS

SH, VARI COLOR

7:AM 2.25.12
DRLG@ 5318'

BACKGROUND GAS
INCREASING

290 HW KICK

MUD CHECK
VIS 57 WT 9.4
CHLOR 12.100 LCM 2
FIL 7 14.4

~~MARROW SH~~
5375 - 3179

5400

~~CHESTER~~
5410 - 3214



ST LOUIS
5470-3274

5500

ST LOUIS
5556-3360

FAAA

SS, LTGRY <MT, WATGRNS,
W SORT, PCS FRABLE, F??
PINS

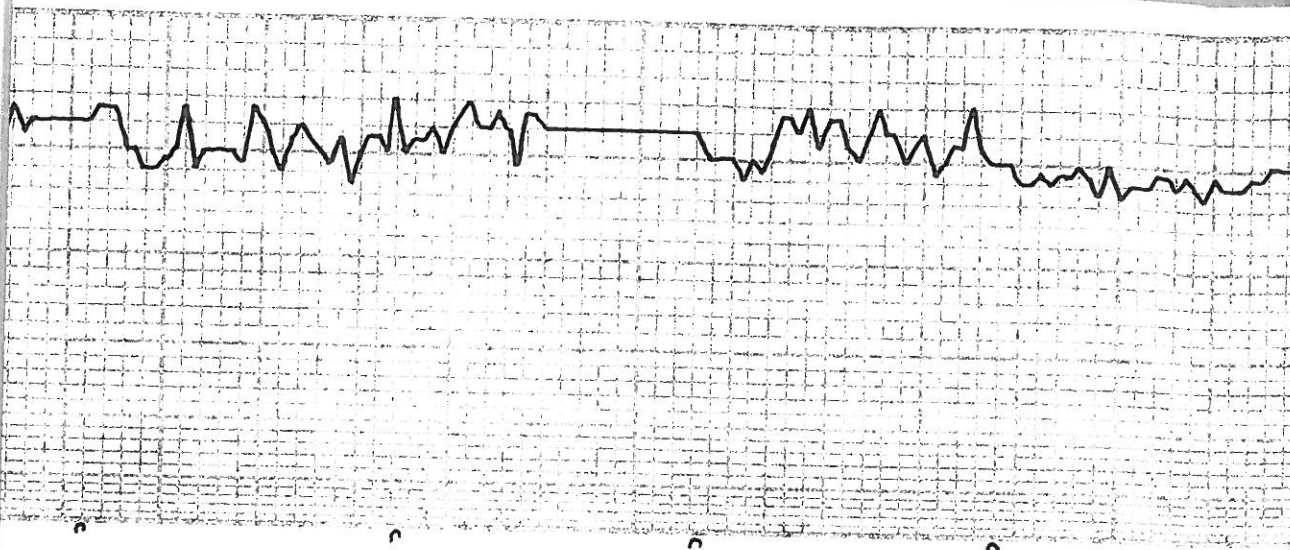
A.A.

A.A, SMLY

A.A.

LS, GRM, TAN, VE XTLW, BRM,
SCT FOSS, PINS

A.A, INCR FOSS



5600

5700

BA, INCR FOSS

LS, CRM, VEXTLN, UDOL + FOSS
WCMT'D, VHRDITITE, MS

SH, VARI COLOR

LS, WHT, FXTLN, V DOL + FOSS,
BRTL, NO APPOR MS

CHT, WHT, ERCD, REXTL'D
FRACS

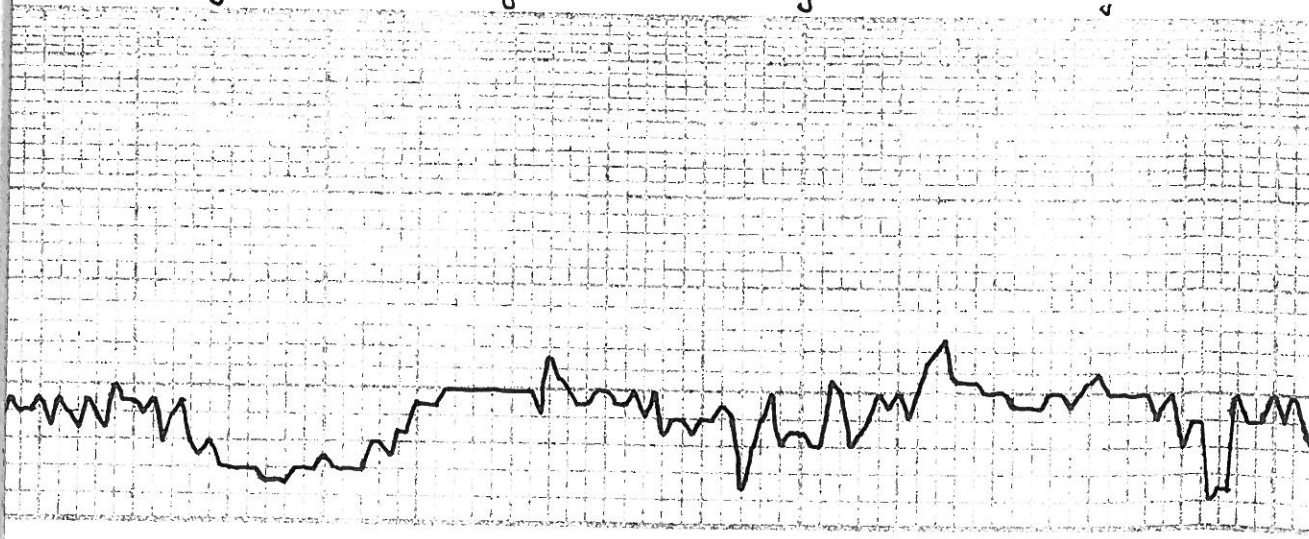
SH, BLK, VARI COLOR

-7:AM 2.26.12
DRLG @ 5604'

MUD CHECK
VIS SG WT 9.35
CHLDR 9,000 LCM 2 1/2
FLT 9.6

RPM 70
WOB 40
SPM 60
PP 850

VIS SS
WT 95
LCM 2



5800

LS, WHT, FXTLM, "MEALY",
SOFT, ? CHLKY, V SL FOSS,
NS

SAMPLES MIXED

LS, CRM, WHT, FXTLM, SL FOSS,
HRD, NO P, NS

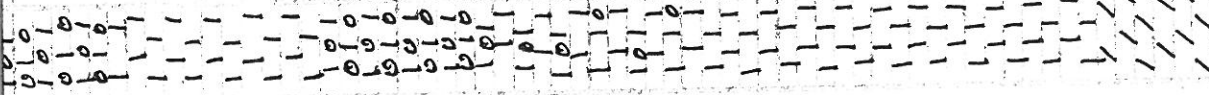
LS, A.A. IMCR FOSS

DOLD, WHT, V DMS, SL SUCR,
ATT, NO APP P, NS

LS, TAM, BUFF, V FXTLM, DMS,
SL FOSS, HRD, NS

LS, TAM, BUFF, V HRD, DMS, ABUN
FOSS, P FOSS P, ATT, NS

RPM 70
WOB 40
SPM 60
PP 900



LS, BRN, DNS, HRD, MXTLN,
SHELL FRAGS, P, NS

CHLK, WNT, CRM

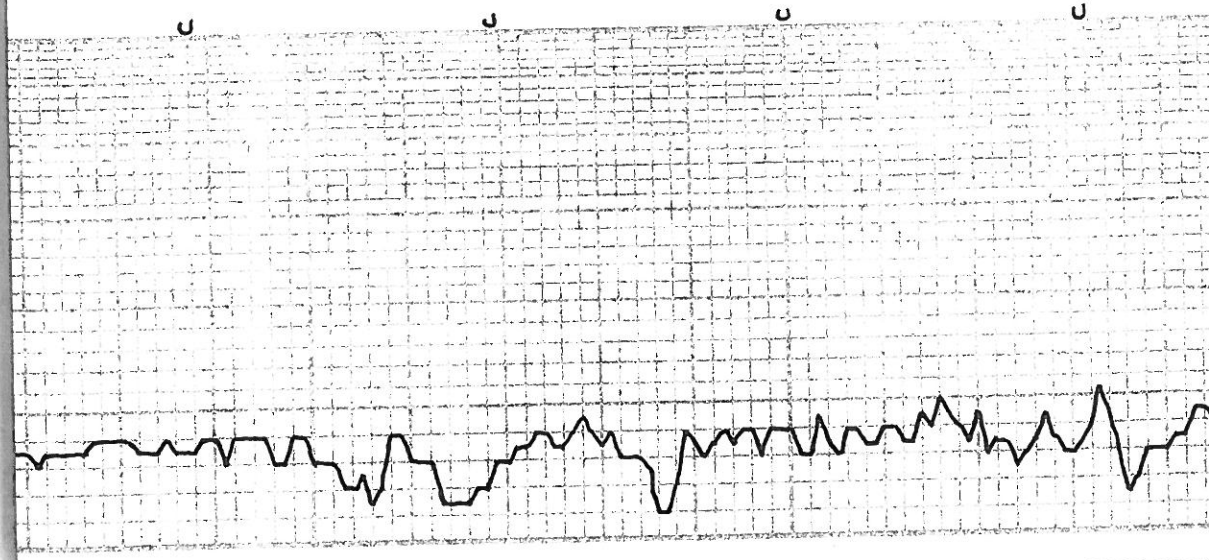
LS, CHLKY, TAP, EXTLN, V FOSS,
TITE, HRD W CMTID, NS

LS, WNT/GRY, F → MXTLN, M HRD,
BRITL. SL FOSS, NO APPP, NS

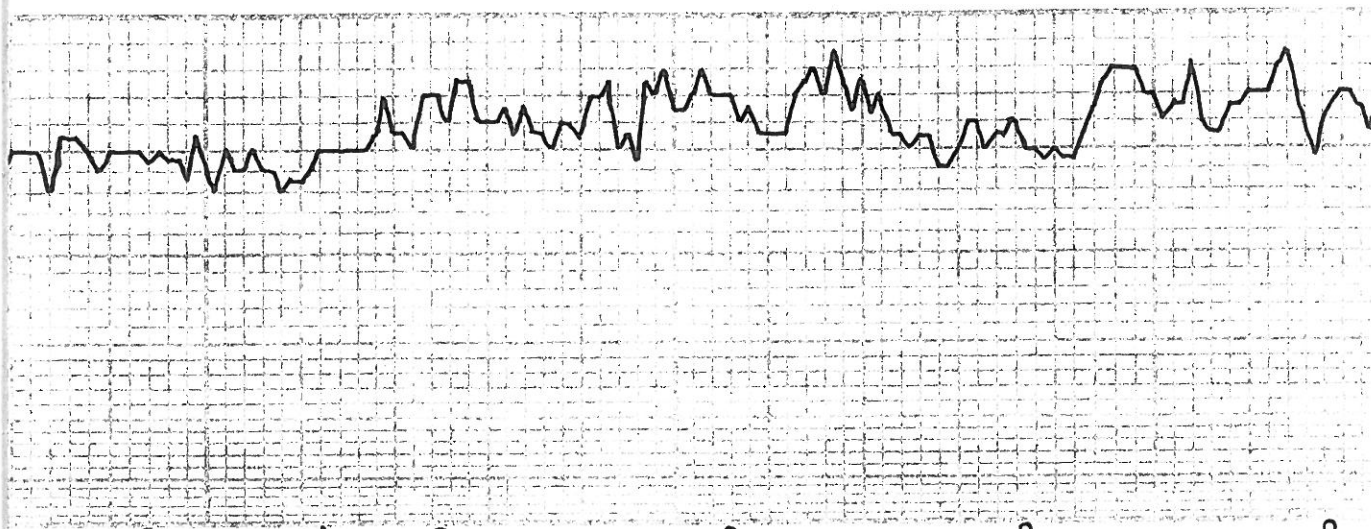
LS, GRY, FXTLN, HRD, DNS,
SCT FOSS, TITE, NS

DOLO, GRY, LMY, FXTLN, FOSS
CASTS, FXTLN, NS

6000



MUD CHECK
VIS 49 WT 9.4
CHLOR 8100 LCM8
FILT 8.8



6100

Dolo, GRy, LMY, FXTLN, FOSS
CASTS, FXTLN, MS

A.A.

LS. LT GRy-WHT, FXTLN CHLKY
SOFT, BRTL, LG RTLS W/N,
G INT XTLW Ø, MS

Dolo, LT GRy, GRy/WHT,
FXTLN, SL DMS, ? XTLW Ø.
MOSTLY TITE, MS

Dolo, A.A., IMCR SUCK

CHT, OPAQ, SL Dolo W/N
FRACB, MS

A.A.

LS, GRy/GRM, TAN, WHT,
Fxm XTLW, FR Dolo W/N
MOSTLY TITE, MS

Dolo, GRy, VFXTLN, DMS,
HRD, TITE, MS

CORREY

6188-3992

6200

RFM 68
WOB 39,000
SPM 60
PP 850

VIS 55
WT 9.3
LCM 8

7:AM 2:28.12
DRLGE 6257

LS, WHT/GRY, F-OM XTLW,
MOSTLY MXTLW, FOSS, BRTH,
HRD, NO APP. NS

A.A.

DOL, GRY, V F XTLW, DNS,
HRD, LOOKS LIKE CRY SH

LS, CRM/GRY, MIXED XTLS
F-OM XTLW, V HRD, V FEW
FOSS, NO APP. NS

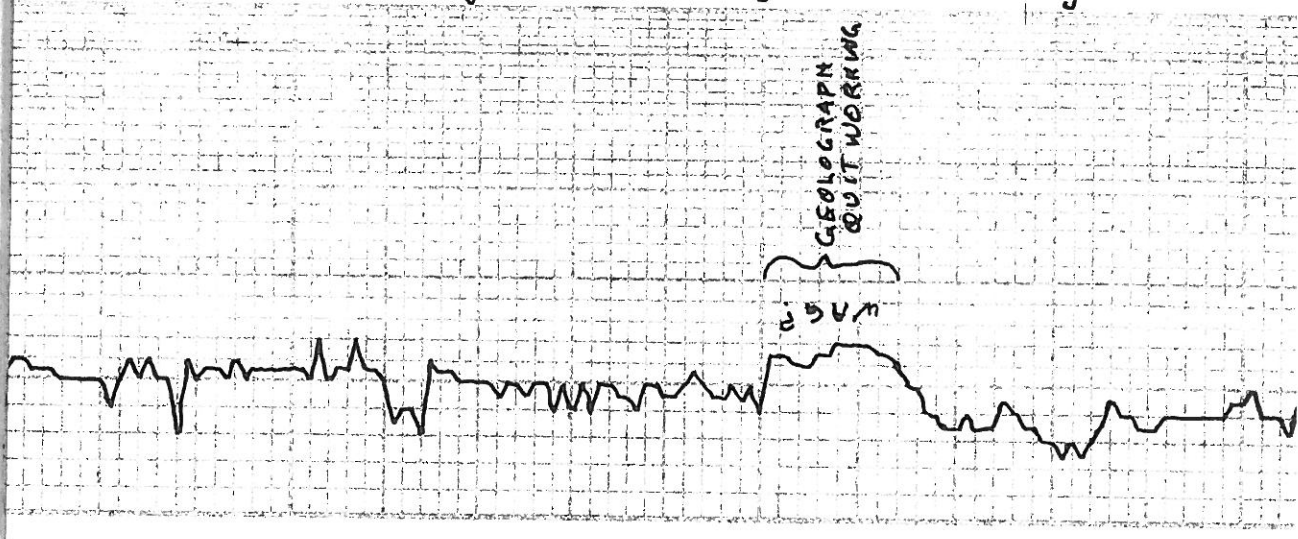
A.A.

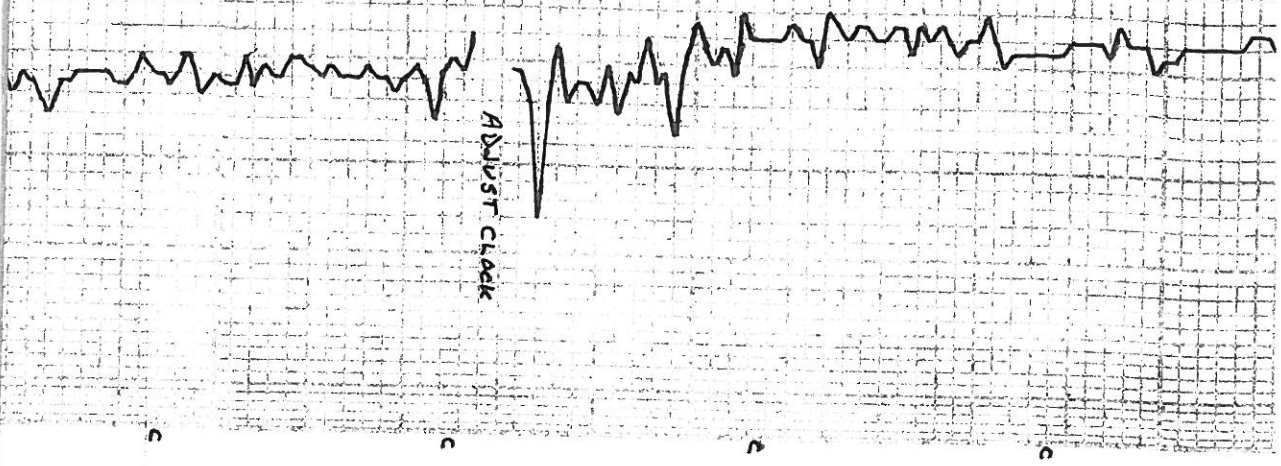
SH, GRY, BLK
SN FLOOD

DOL, GRY, V F XTLW, DNS,
SUCR, V SL LMY, V HRD,
TITE, NS

LS, AQUA, F XTLW, LG XTLS W/A

6300





6400

VLD, GRAY, VERTLN, DNS,
 ? SDCR, V SL LMY, V HRD,
 TITE, MS

LS, AQUA, F XTLM, LG STLS W/M
 TITE, MS

A.A.

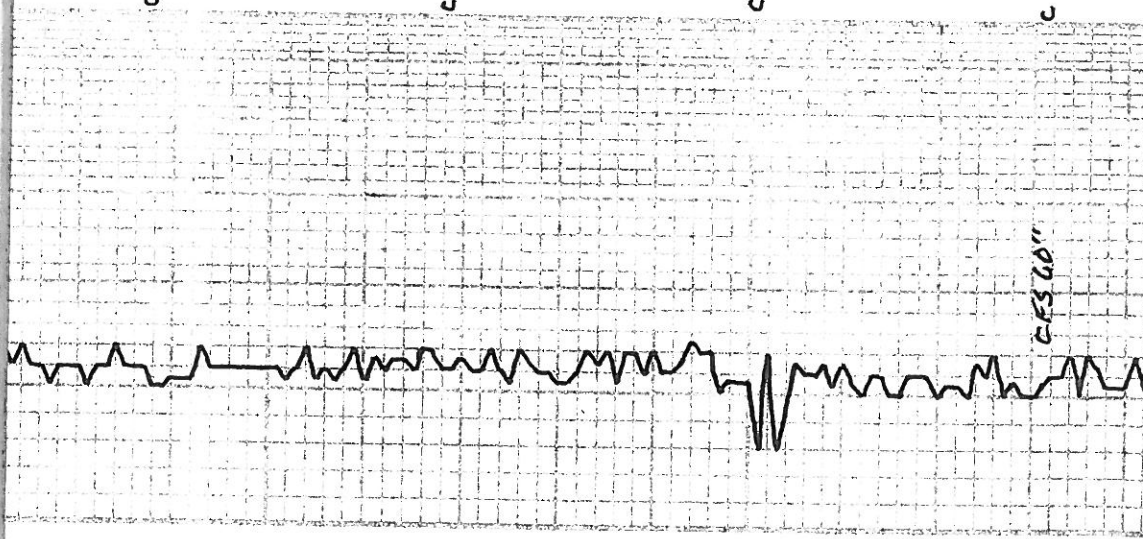
LS, GRAY/WHY, M XTLM, V HRB,
 ? XTLM Ø, V SLEBS, MS

LS, GRAY, V F XTLM, V HRB, V DNS,
 TITE, MS

LS, LT TAN/GRAY, V F XTLM,
 V DNS, V HRB, ? FRAL, SLATY
 TITE, MS

A.A.

MVDC HBCK
 VIS 64 WT 9.35
 CHLOR 7,100 KCMG
 FIAT 8.8



6500

LS, A.A. SMD GRNS EMBEDDED
100RA

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A.A.

LS, WHT, CRM, FXTLN, VHRD,
DMS, SCT FOSS, NO APPG, NS

A.A.

INCR SHELL FRAGS

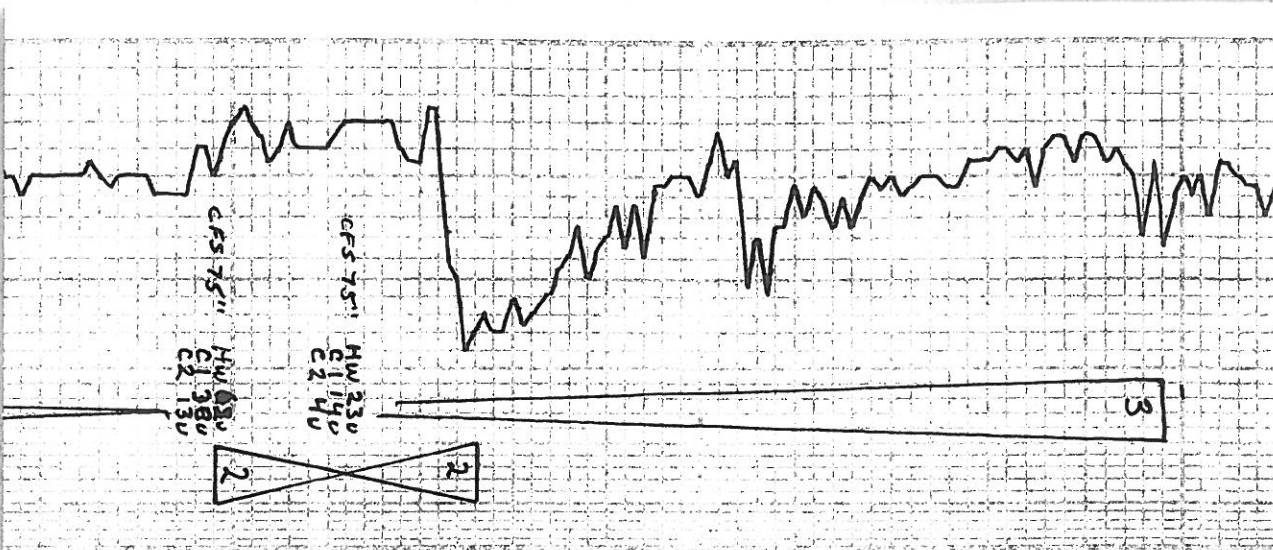
LS, WHT, FXTLN, MXTLS W/M,
HRD, SCT FLOOR MINS W/M,
BRITL, PXTLN P, NS

LS CRM, F-PM XTLN, MHRD, SL
CHLKY ON BRK, TØ, NS

DOLO, BLK, LENTICULAR, VF XTLN,
V DMS, BRITL, HRD, LMY,
SHLY, TITE, NS

T:AM 2-29-12
DRLG @ 6526'

MUD CHECK
VIS 48 WT 9.25
CHOR 6200 LCM 5 1/2
FILT 48



6600

6700

VIOLA
DEV 340
6676-4480

DOL. GRY, VXTLN, V HRD + DMS,
 FOSSCASTS, TITE, WS
 LS, TAN, VXTLN, M HRD → V HRD,
 V, DMS, MICROFOSS, TITE, WS
 Δ Δ CHT, BRN, GRY, WHT, OPAQ
 Δ Δ LS, WHT, VXTLN, SL DPAQ, HRD,
 V, DMS, TITE, WS
 LS, WHT, FXTLN, CONGL, HRD,
 TITE, RS S → M HRD, SL BRITL
 Δ Δ CHT, GRY, WHT, OPAQ, SMOKE
 Δ Δ CHT, MILKY, WHT, OPAQ, EVEN
 STNG, FRAC, WHISP ODOR
 Δ Δ LS, WHT, FXTLN, G, EVEN
 FLUOR STNG + D SPTS, GSSY
 FO ON BRK
 Δ Δ CHT, LT TAN, TAN, WHT, V DMS
 SL TR FDS W/M, TITE, MS
 Δ Δ DOL. TAN, GRN, R TRT, V HRD,
 FXTLN, DMS, F, G, FLUOR
 STNG, V FEW D SPTS ON BRK,
 V TITE, LT ODBR
 LS, WHT, FXTLN, MXTLS, WHTA,
 CHUKY, G, EVEN, FLUOR, D SPTS, W, FLUOR,
 FO BRK, SL GAS BBLS, SO FT,
 MEALY, V, G, WXTLN, B
 PAULTON, G, BL, EB, TAN, FXTLN,
 SAT FLUOR STNG,
 AA, DOL, TITE, LT FLUOR STNG
 DOL, DTY (WHT), TAN, FXTLN,
 SUCR, MS
 Δ Δ CHT, BRN, OPAQ
 Δ Δ CHT, BRN, WHT, WHT/ BRN

FLUOR STNG
 TR GAS
 FIBR STN
 FO: BRK
 Δ SPTS
 GSYFO
 C3 2lv
 Hw Kick OFF CHART (90+0)
 C1 390, OFF CHART
 C2 340
 C3 2lv
 STRAP 670130
 BOARD 670691
 SHORT 5.61
 VIS 63
 WT 92
 LCM 6
 BIT TRIP
 7:AM 3.1.12
 GIH/BIT @ 6677
 7:AM 3.2.12
 OUT W/ DST #2
 DST #2 6674-6702
 30.60.45.90
 IF: surf blo. d. ed 15"
 FF: dead, pluck, dead
 RAC: 2'M
 CO. 110-127 157-164

LS, WHT/BRN, MXTLN, SOFT,
GRNY, No APPP. NS

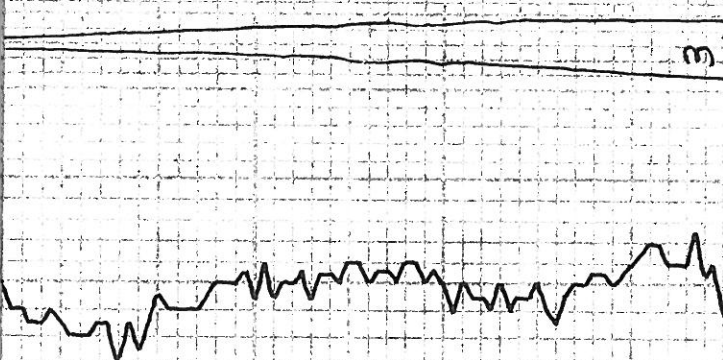
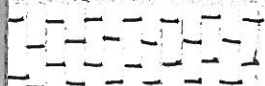
LS, TAN, WHT, VFXTLN, VDM'S
VHRD, ΔTY, BRITL, TITE,
As A BON FOSS, NS

SAMPLES TRASHY

DOLO, WHT SUCR, FØ, NS
CMT, WHT, OPAQ, SHARD

LS, CRM, BUFF FXTLN, ΔTY
SL FOSS, MHRD, FXTLN Ø,
NS

DOLO, GRY, TAN, SUCR,
VHRD, SL LMY, NS



6800
DEV 1°

BIT PLUGGED

SIP: 1625-1170
HP: 3200-3177

7:AM 3-3-12

OVT FOR LOGS

7:AM 3-4-12

DST # 3B 6800TD

MUDCHECK

VIS WT 9.1 FILT 11.6

CHLOR 10, 200 LCMC

DST # 3 6602-6800

30.60-90.90

IF: 5" 151:NR

FF: BOB 30" FSI:NR

REC: 65'M

40'M

120' GM 10% G, 90% M

120' GDCM 5% G, 5% O

90% M

36S FLUID

FP: 296-361, 320-395

SIP: 2341-2234

HP: 3233-3179

40' M
120' GN 10% G, 90% M
120' GBCM 5% G, 5% O
90% M
365 FLUID
FP: 296-361, 320-395
SIP: 2341-2234
HP: 3233-3179