



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1091580
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: _____

1091580

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> _____	PRODUCTION INTERVAL: _____ _____
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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 15-203-20181-00-00
Horton-Smith 1
N/2 Sec.19-20S-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



CONSOLIDATED
Oil Well Services, LLC

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

TICKET NUMBER 34541
LOCATION Oakley, KS
FOREMAN Miles Shaw
Walt Dinkel

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
6-4-12	7158	Horton-Smith #1	19	20 S	35 W	Wichita	
CUSTOMER <u>Raymond Oil</u>		Mailing Address <u>Mediac South to Rd cc 5 1/2 W 1.5</u>					
MAILING ADDRESS		TRUCK #		DRIVER		TRUCK #	DRIVER
CITY		STATE		ZIP CODE			
		528-T127		Cory Davis			
				Bobby Rantz			
				Thomas Burns			

JOB TYPE Prod-DV HOLE SIZE 7 7/8 HOLE DEPTH 5133 CASING SIZE & WEIGHT 4 1/2 - 106 #
CASING DEPTH 5133 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 182 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE 6 BPH

REMARKS: Safety Meeting, rig up on H2 #1, circ casing on bottom, Float Equip, cont #1-3-5-7-11-13-66, Basket on 64 DV on 65 mix 225 sk 60/40 per, 7 1/2 % salt, 2% gel, clear Pump + Lines, release Plug Displace 45 BBL H2O + 88 BBL mud, @ 800 #, Landed Plug @ 1300 #, release Pressure, Float Held, Open DV Tool, establish Circ, mixed 450 sks 60/40 per 8% gel, 1/4 # Flo-Seal, clear Pump + Lines, @ 1800 #, release Plug + Displace 38 BBL H2O @ 900 #, Landed Plug @ 1800 #, release Pressure, Held

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3020.00	3020.00
5406	60	MILEAGE	5.00	300.00
1131	225 SKS	60/40 per (Bottom Stage)	15.10	3397.50
1131	450 SKS	60/40 per (Top Stage)	15.10	6795.00
1111	795 #	Salt	.45	357.75
1118B	3096 #	gel	.25	774.00
1107	113 #	Flo-Seal	2.82	318.66
5407A	29.03	Tan Mileage Delivery	1.67	2908.80
4161	1	4 1/2 AEU Float Shoe	342.00	342.00
4453	1	4 1/2 Latch down Assy (Weatherford)	456.00	456.00
4129	7	4 1/2 - Centralizers	46.00	322.00
4103	1	4 1/2 - Basket	261.00	261.00
4276	1	4 1/2 DV Tool (Weatherford)	4200.00	4200.00
				23,452.71
		Less 10% Disc		- 2,345.27
				21,107.44

Ravin 3737
AUTHORIZATION Allen Sub TITLE 250304 Foreman DATE 6-4-12
SALES TAX 1281.063
ESTIMATED TOTAL 22394.07

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.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

19-20s-35w Wichita Co, KS

PO Box 48788
Wichita KS 67202-1822

Horton-Smith # 1

Job Ticket: 45971

DST#: 1

ATTN: Max Lovely

Test Start: 2012.05.28 @ 08:45:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 11:55:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: 4500.00 ft (KB) To 4520.00 ft (KB) (TVD)

Reference Elevations: 3199.00 ft (KB)

Total Depth: 4520.00 ft (KB) (TVD)

3189.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8675 Inside

Press @ Run Depth: psig @ 4501.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.28

End Date: 2012.05.28

Last Calib.: 2012.05.28

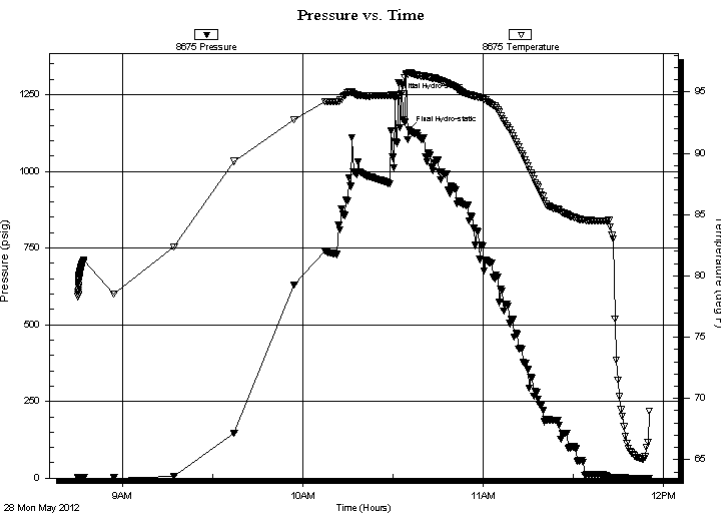
Start Time: 08:45:01

End Time: 11:55:15

Time On Btm: 2012.05.28 @ 10:30:30

Time Off Btm: 2012.05.28 @ 10:35:15

TEST COMMENT: Hit a bridge and couldnt get through. They are going in to recondition the hole



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1238.64	94.75	Initial Hydro-static
5	1133.66	96.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company Inc.

19-20s-35w Wichita Co, KS

PO Box 48788
Wichita KS 67202-1822

Horton-Smith # 1

Job Ticket: 45971

DST#: 1

ATTN: Max Lovely

Test Start: 2012.05.28 @ 08:45:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

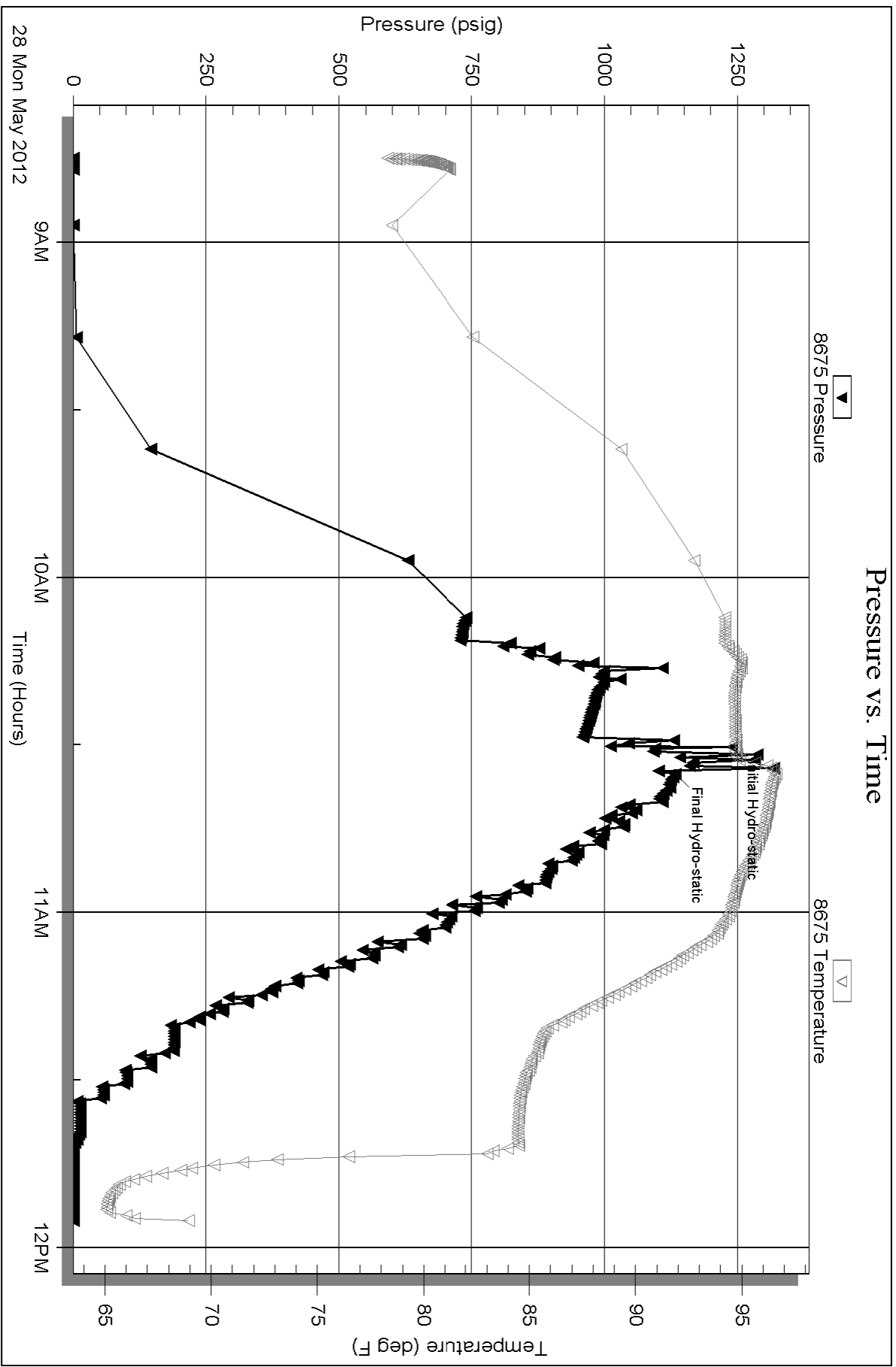
Serial #: 8675

Inside

Raymond Oil Company Inc.

Horton-Smith # 1

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

19-20s-35w Wichita Co, KS

PO Box 48788
Wichita KS 67202-1822

Horton-Smith # 1

ATTN: Max Lovely

Job Ticket: 45972

DST#: 2

Test Start: 2012.05.28 @ 19:10:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 01:15:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4500.00 ft (KB) To 4520.00 ft (KB) (TVD)

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3199.00 ft (KB)

3189.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8675 Inside

Press @ Run Depth: psig @ 4501.00 ft (KB)

Start Date: 2012.05.28

End Date: 2012.05.29

Start Time: 19:10:01

End Time: 01:15:45

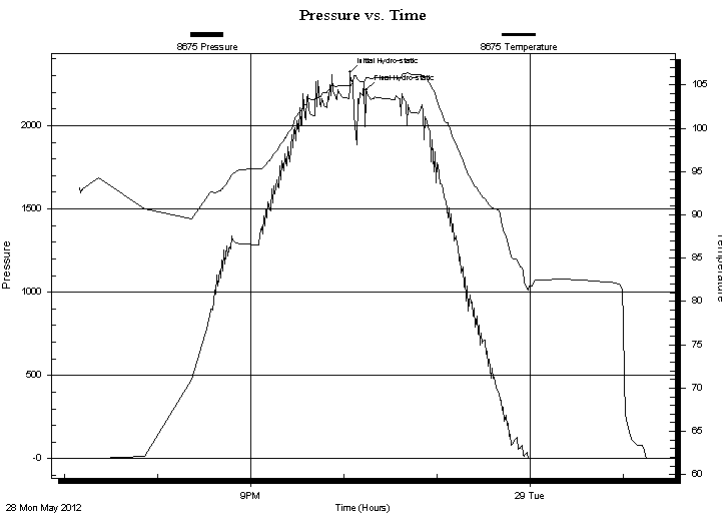
Capacity: 8000.00 psig

Last Calib.: 2012.05.29

Time On Btm: 2012.05.28 @ 22:04:15

Time Off Btm: 2012.05.28 @ 22:14:45

TEST COMMENT: Packer Failure. Tried to set them three times. Wouldn't hold



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2319.05	104.95	Initial Hydro-static
11	2213.68	105.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
935.00	100% Mud	9.76

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 Company Inc.

19-20s-35w Wichita Co, KS

PO Box 48788
Wichita KS 67202-1822

Horton-Smith # 1

Job Ticket: 45972

DST#: 2

ATTN: Max Lovely

Test Start: 2012.05.28 @ 19:10:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
935.00	100% Mud	9.760

Total Length: 935.00 ft Total Volume: 9.760 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

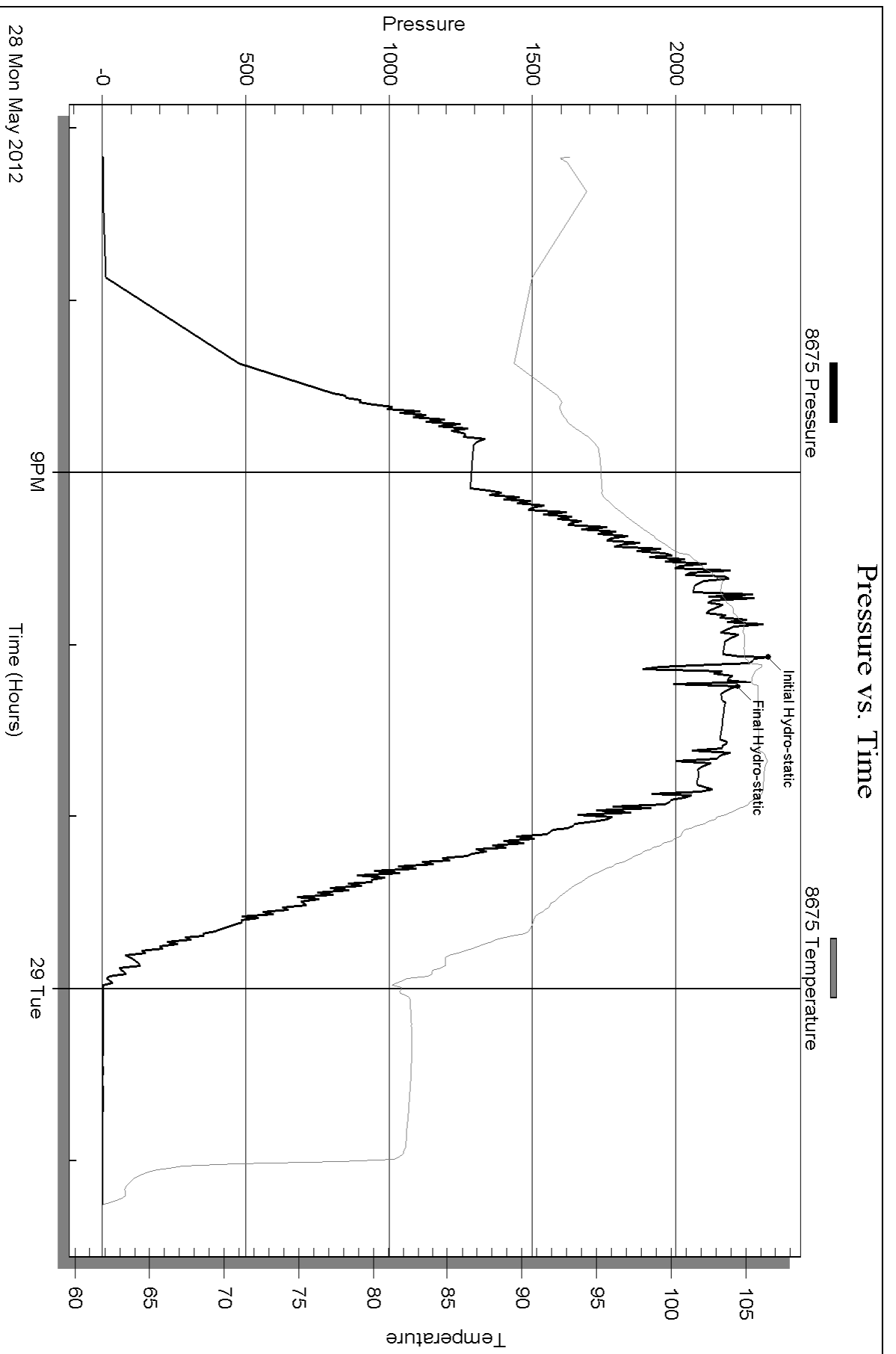
Serial #: 8675

Inside

Raymond Oil Company Inc.

Horton-Smith # 1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 45972

Printed: 2012.05.29 @ 14:03:34



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

19-20s-35w Wichita Co, KS

PO Box 48788
Wichita KS 67202-1822

Horton-Smith # 1

ATTN: Max Lovely

Job Ticket: 45973

DST#: 3

Test Start: 2012.05.29 @ 09:55:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 15:08:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 4498.00 ft (KB) To 4535.00 ft (KB) (TVD)

Total Depth: 4525.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3199.00 ft (KB)

3189.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8675 Inside

Press @ Run Depth: psig @ 4499.00 ft (KB)

Start Date: 2012.05.29

End Date: 2012.05.29

Start Time: 09:55:01

End Time: 15:08:30

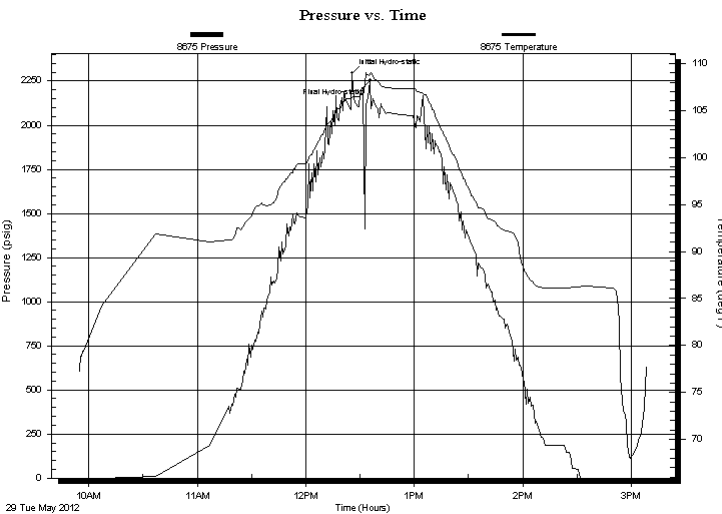
Capacity: 8000.00 psig

Last Calib.: 2012.05.29

Time On Btm: 2012.05.29 @ 12:25:45

Time Off Btm: 2012.05.29 @ 12:35:30

TEST COMMENT: Packer Failure. Couldn't get the packers to hold. Moved packers up 2 feet and drilled 5 more feet from dst 2.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2293.80	106.41	Initial Hydro-static
10	2253.33	108.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
410.00	100% Mud	2.40

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 Company Inc.

19-20s-35w Wichita Co, KS

PO Box 48788
Wichita KS 67202-1822

Horton-Smith # 1

Job Ticket: 45973

DST#: 3

ATTN: Max Lovely

Test Start: 2012.05.29 @ 09:55:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
410.00	100% Mud	2.395

Total Length: 410.00 ft Total Volume: 2.395 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

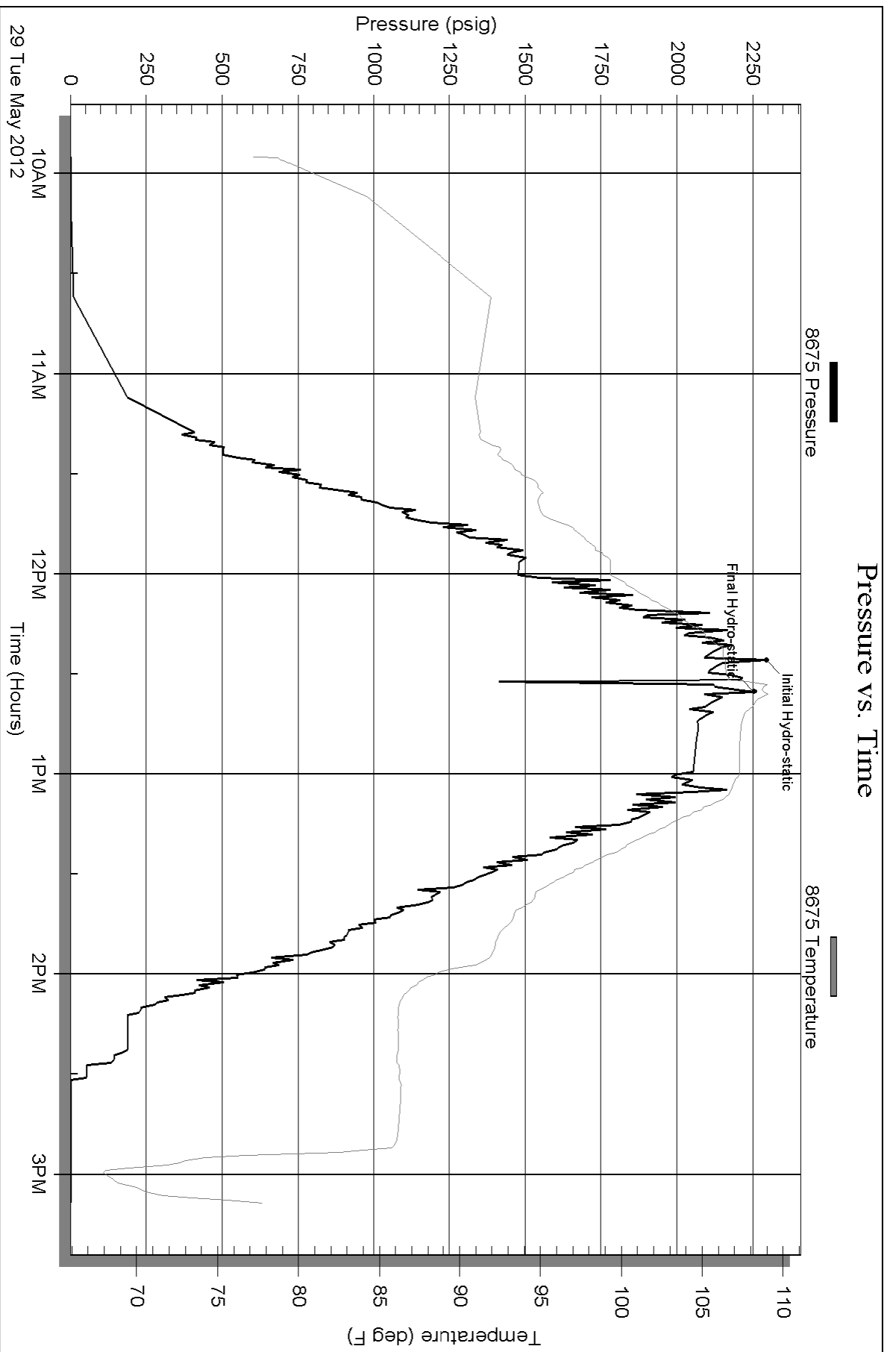
Serial #: 8675

Inside

Raymond Oil Company Inc.

Horton-Smith # 1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 45973

Printed: 2012.05.29 @ 15:29:09

Max R. Lovely

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **Raymond Oil Co.**
 LEASE **#1 Horton-Smith**
 FIELD **Wildcat**
 LOCATION **S/2 N/2 N/2 N/2**
 SEC **19** TWP **20** RGE **35W**
 COUNTY **Wichita** STATE **KS**
 OPERATOR **H2 #1**
 START **5-24-2012** COMP **6-3-2012**
 RTO **5141** LTD **5146**
 SEC OF **3414** TYPE AND **Chem**

ELEVATIONS
 RB **3199**
 OF
 GL **3188**
 Measurements Are A
 From **KB**
 CAS NO
 SURFACE **8 5/8 @ 279'**
 PRODUCTION **4 1/2**
 ELECTRICAL SURVEY
 C N/D
 DI, MICRO

FORMATION TOPS AND STRUCTURAL POSITION


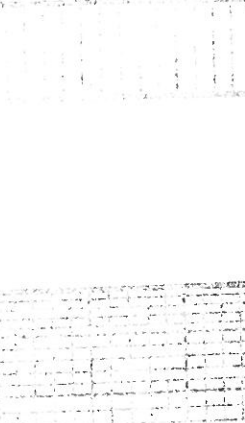

FORMATION	SHOULDER TOP	RESERVOIR TOP	SUBSEA BASE	STRUCTURAL POSITION	
Base Anhydrite	2314	2315	884		
Stotler	3544	3537	-338	-347	-346
Heebner	3957	3958	-757	-769	-768
Lansing	4014	4009	-810	-820	-820
Stark	4323	ABS		-1130	-1120
Marmaton	4509	4501	-1302	-1312	-1304
Pawnee	4602	4592	-1393	-1406	-1394
Myric Station	4632	4626	-1427	-1439	-1427
Fl. Scott	4645	4642	-1443	-1454	-1444
Cherokee	4680	4676	-1477	-1486	-1476
Johnson	4720	4719	-1520	-1527	-1523
Atoka	4770	4768	-1569	-1574	-1569
Morrow SH	4861	4861	-1662	-1670	-1656
Mississippi	4934	4937	-1738	-1741	

Raymond Horton-Brack #1 NW NE NW NE 19-20-35W
 Raymond Brack 18 #1 C SW 18-20-35W

This is a blank area for handwritten notes, possibly describing the geological context or survey details.

LEGEND

-  Sandstone
-  Shale
-  Limestone
-  Chert
-  Dolomite

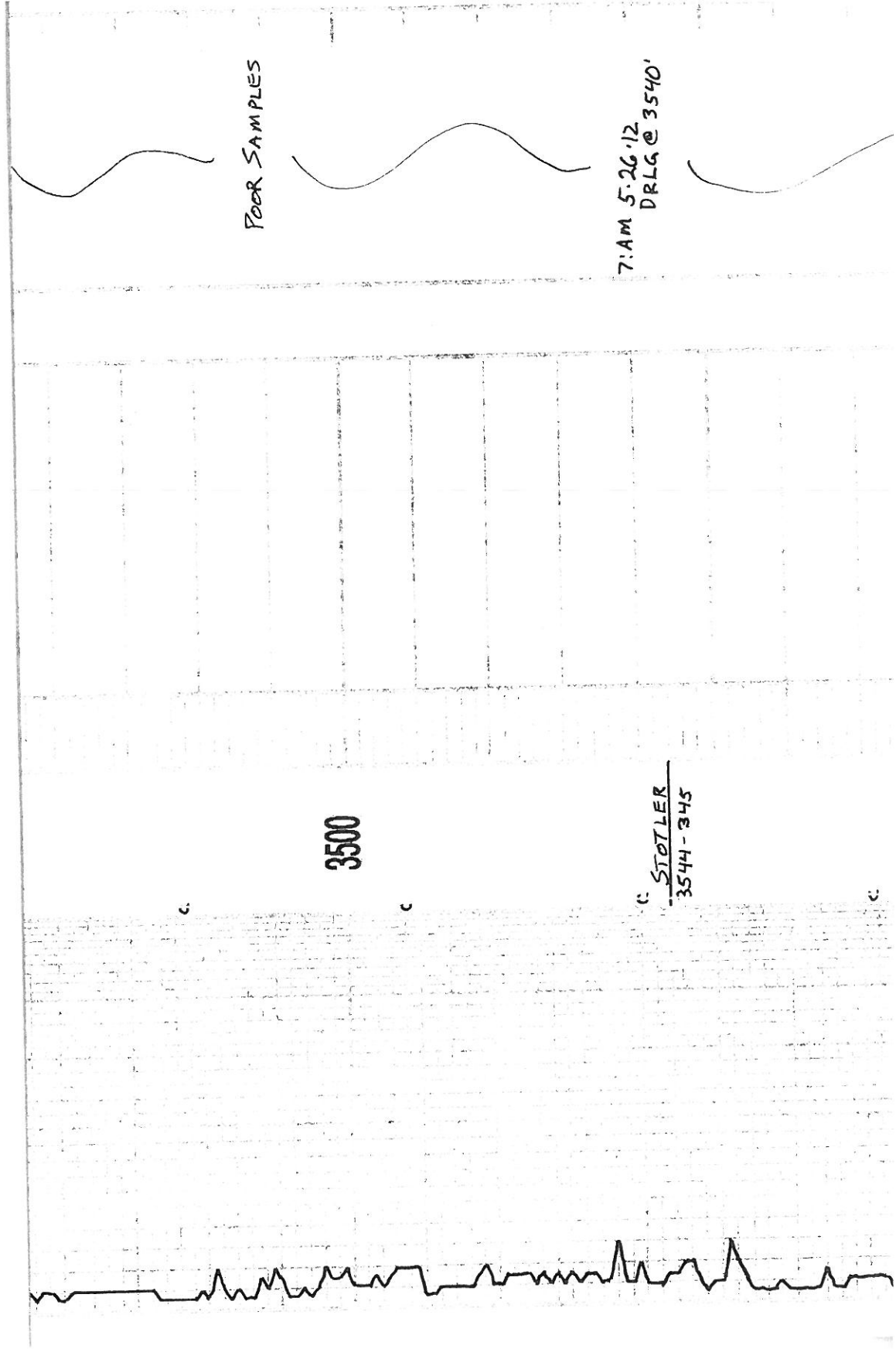
DESCRIPTION	LITHOLOGY	CORRELATION	REMARKS
			<p> This column contains handwritten notes and observations related to the geological units shown in the lithology and correlation columns. </p>

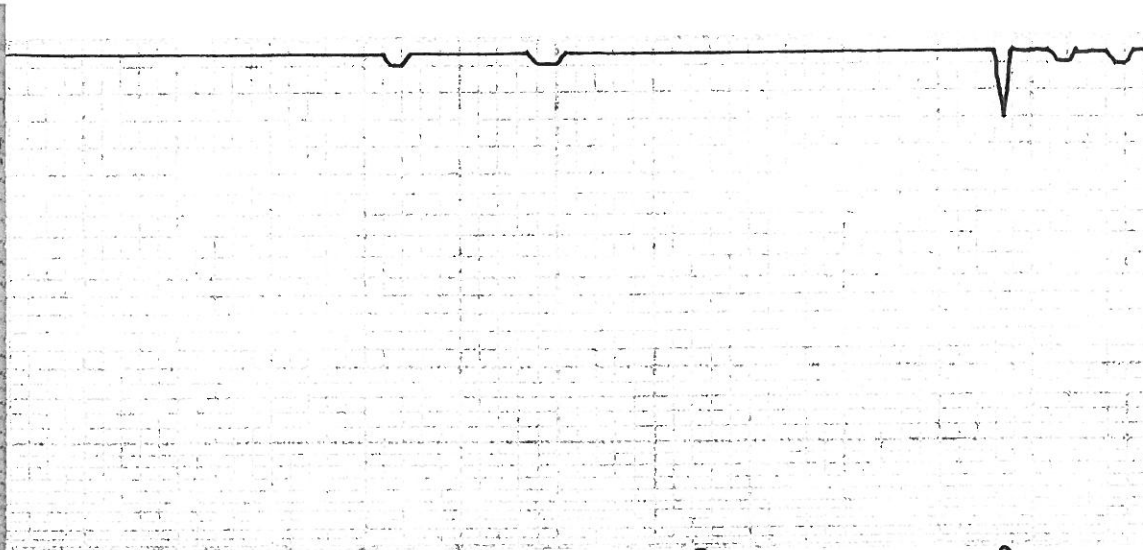
POOR SAMPLES

7:AM 5-26-12
DRLG @ 3540'

3500

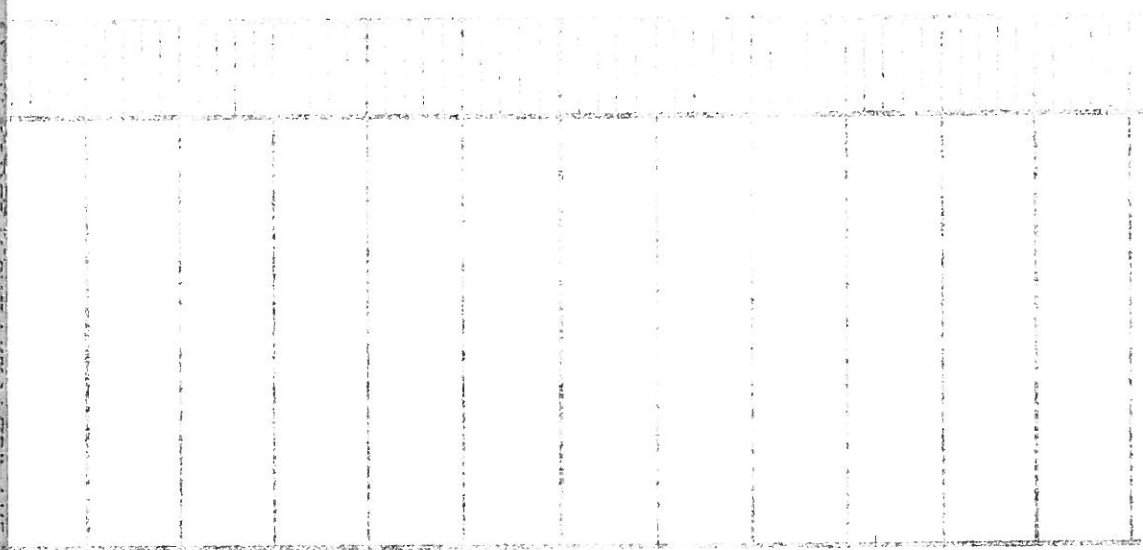
STOTLER
3544-345





3600

3700



PDC BIT
POOR SAMPLES

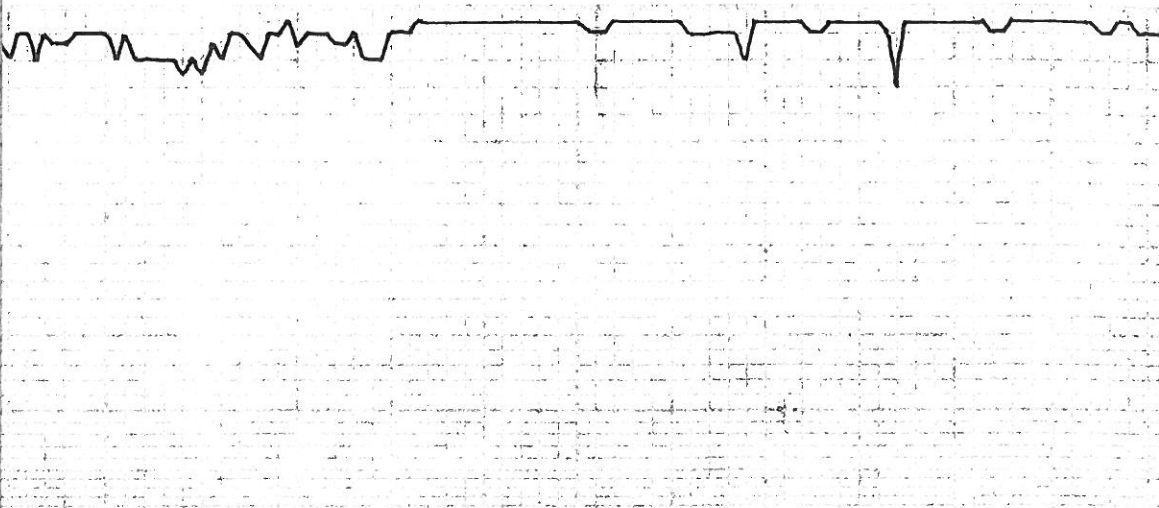


PDC BIT
POOR SAMPLES

MUD CHECK
VIS 53 WT 9.0
CHLOR 4,000 LCM3
FILT 8:8

PDC BIT
POOR SAMPLES

3800



3900

DEV Y⁴

HEBNER
3957-758

<p>LS, BRN/WHT, GRMY, SOET, V SL XLN P, NS</p>	<p>LS, A.A. V CHKY</p>	<p>SH, BLK, DE GRV</p>
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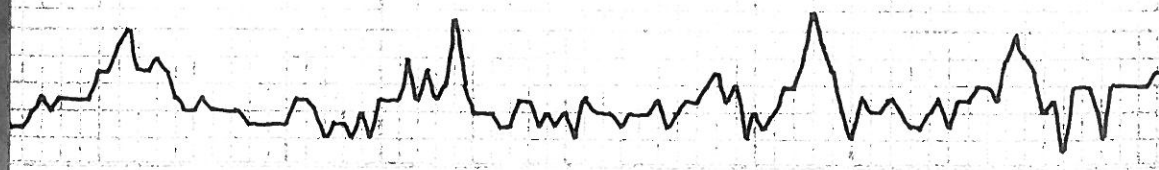
3917' BIT TRIP

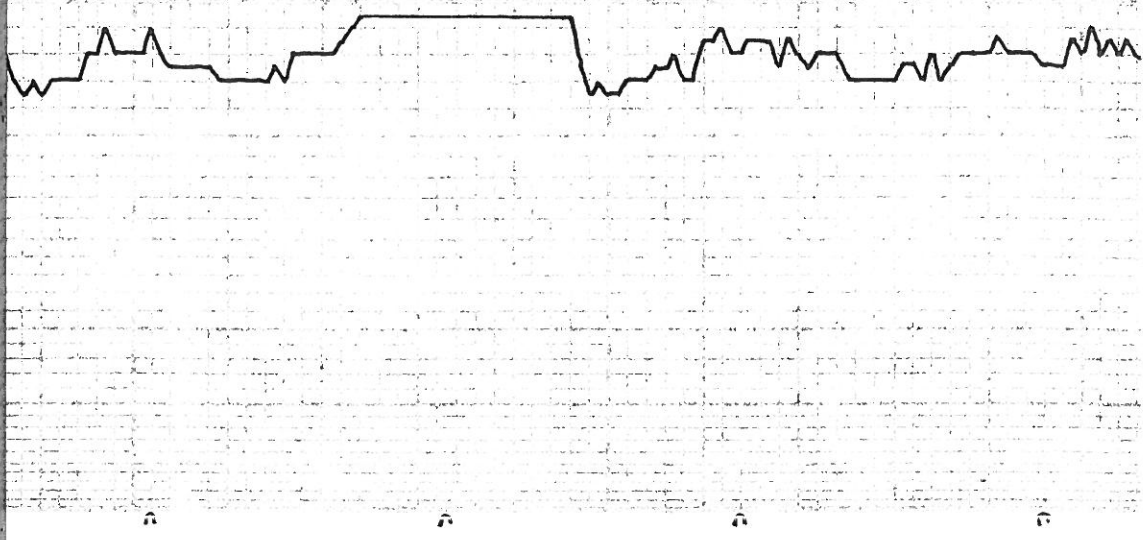


LS. TAN, VF XTLN, V DMS, HRD, TITE, NS	SH, GRY, BR TL, SLTY
LS. WH, C HTY, V. EXTLN, HRD, XTLN P, NS	
LS. TAN, A.A.	
LS. BRN, VF XTLN, SL FOSS, V HRD, TITE, NS	
LS. WH, TAN, VF XTLN, SOFT, LG. V FOSS W/N, NO APPR, NS	
SH, GRY	SLT STN, GRY
LS. CRM, WH, BRN, TAN, VF XTLN, DMS, ? FRACID, NS	
A.A.	
LS. TAN, F. XTLN, DMS, HRD	

4000

LANSING
4014 - B15





4100

LS, TAN, FXTLN, CHLN, SOFT
NS

A.A.

LS, WHT, FXTLN, M HRD, SL
FOSS, NO VIS P, NS

CHALK

LS, WHT, FXTLN, FINE CNT, V FOSS
P CNT FOSS, G FOSS P, NS

LS, BUFE, FXTLN, HRD, OO M, SL
FOSS, NO PERMINS

LS, TAN, V FXTLN, DMS, HRD, SL
BRTL, TITE, NS

A.A.

A.A.

SH, BLK, GRV

4200

7:AM 5-27-12

LS, BUFF, V FXTLN, V OOM,
SL VUG P, MS

LS, GRY/BRN, FXTLN, V HRD,
SL FOSS, TITE, MS

LS, TAN, FXTLN, HRD, TITE,
MS

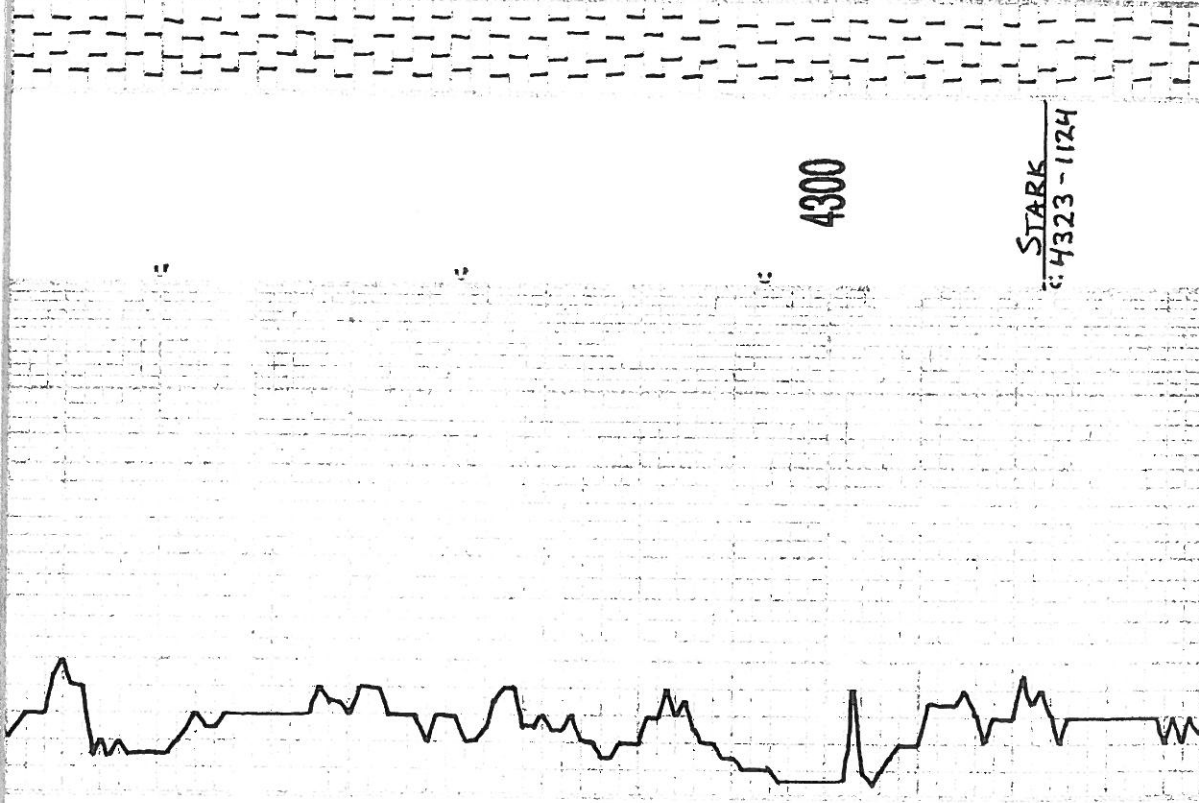
LS, BUFF, FXTLN, OOM,
DOLS W/M, HRD, NO PERMS

LS, CRM, BUFF, GRY, FXTLN,
HRD, RE XTLD FRACS, P P, MS

A.A.

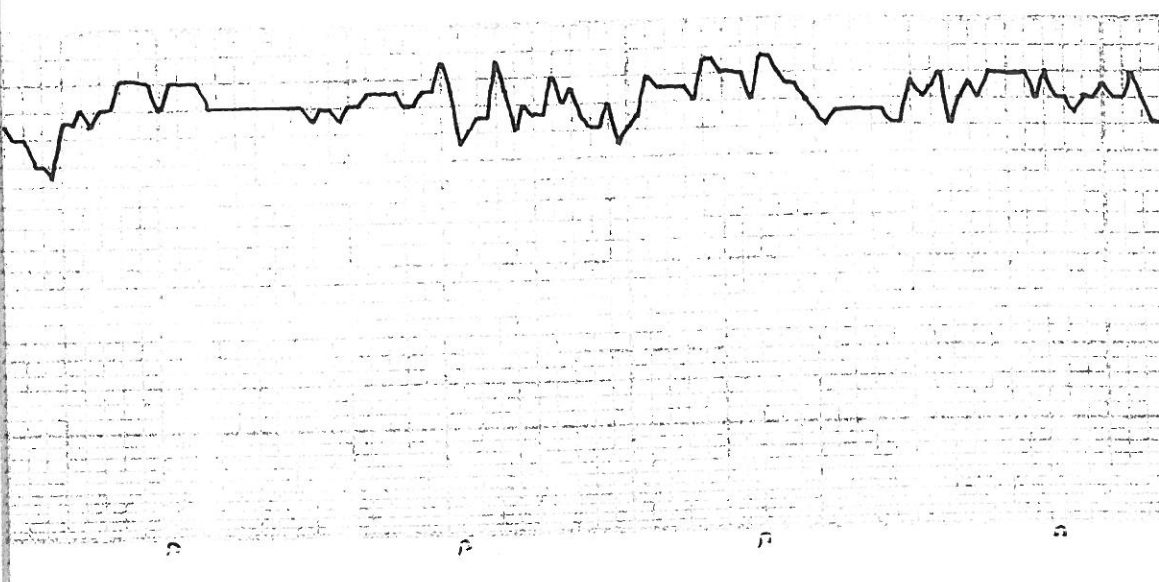
DRLG @ 4213'

MUD CHECK
VIS 57 WT 9.2
CHLDR 3600 LCM 2
FLT 9.6



4300

STARK
C: 4323 - 1124



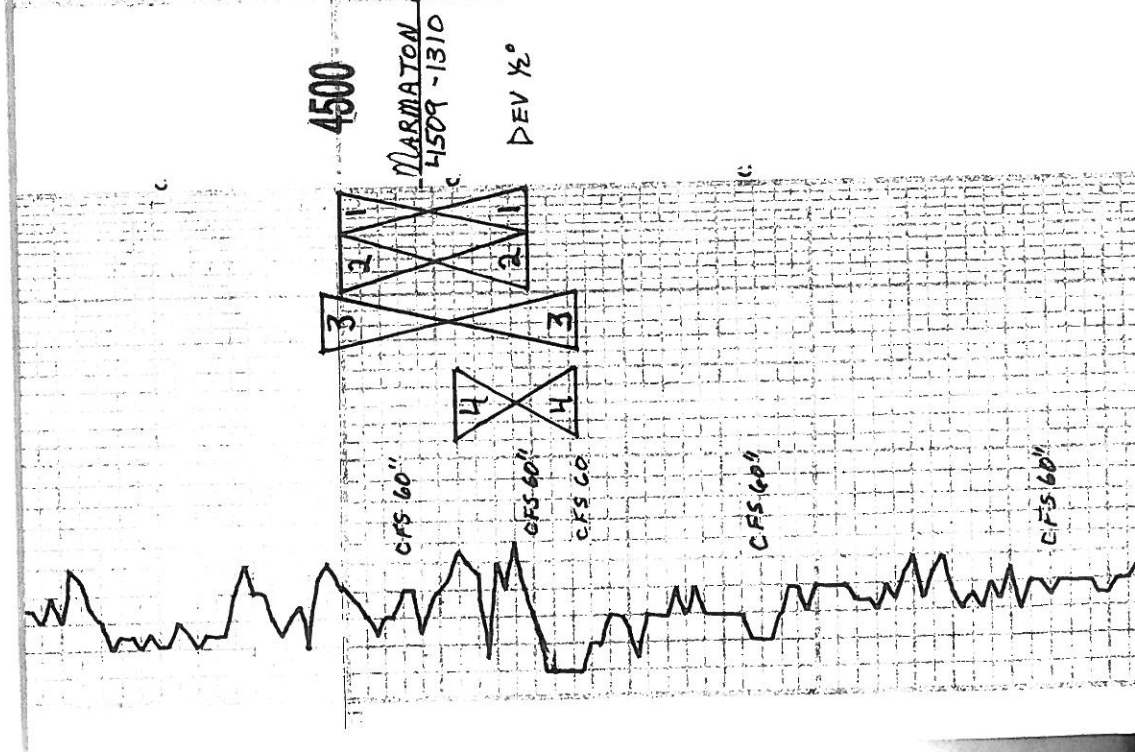
4400

LS, TAN, EXTLN, HRD, DMS, SCT FOSS, MS
LS, GRM, WHT, SOFT, CHALKY, EXTLN Ø, MS
A. A.
LS, TAN, GRM, CHTY, FOSS, BRITL, MS
LS, GRY, EXTLN, PK, DOLS, PFF, CMT'D DOLS, F4G, MS

CH GRM

10 STAND SHORT TRIP
 DST #1 4500-4520
 HIT BRIDGE
 DST #2 4500-4520
 PRR FAILURE
 DST #3 4498-4525
 PRR FAILURE

SATSTN, GRY, BRN, SNDR	STRAP 4543.21 BOARD 4543.11 Lona .10
CHALK, WHT, CRM, LS. Pos. Ma	7:AM 5-28-12 DST #1 @ 4520' 7:AM 5-29-12 1 DST #3 @ 4525' VIS 65 WT 9.0 CHLOR 5000 LCM2 FILT 9.6
LS, CRM, WHT, TAN, FXTLN, HRD, PPXTLN Ø. MS	DST #4 4512-4525 30-45-30-30 IF: Y4' 151: NR FF: SURF, DIED, FLUSH, WK SURF FSI: NR REC: 20' SOC M 7% OIL TOOL: 4% OIL, 96% M FP: 6-16, 17-28 SIP: 1081-1094 HP: 2049-2047
LS, TAN, V. FXTLN, LG. XTLS W/AL CHILKY COATED G. EVEN FLUOR STNG, FLUOR FO ON BRK, BRN OIL, SCT Ø STNG IN Ø, Ø STRNG, G. ODOR	
LS, WHT, F. XTLN, C. M. T. G. BEL FOSS, Ø M, V. G. FLUOR STNG G. BRN Ø COAT'D Ø M + VUG G. Ø, 5-10 M HRD	FLUOR FLUOR STNG G. ODOR WHT FO RAINBOW G. ODOR
SH. GRY, SNDR	
CHALK, GUMMY	
LS, CRM, TAN, F. XTLN, V. LG. GRMS, SCT W/IN Ø MS, HRD, FEW FOSS, SL Ø M, NO APP Ø MS	
LS, CRM, WHT, GRMLRTXT, SOFT, G. GRMLR Ø MS	
LS, BRN, FXTLN CMT, Ø Ø L, MHRD BRTL, 3 Ø MS	



JOHNSON
4720 - 1521

ATOKA
4770 - 1571

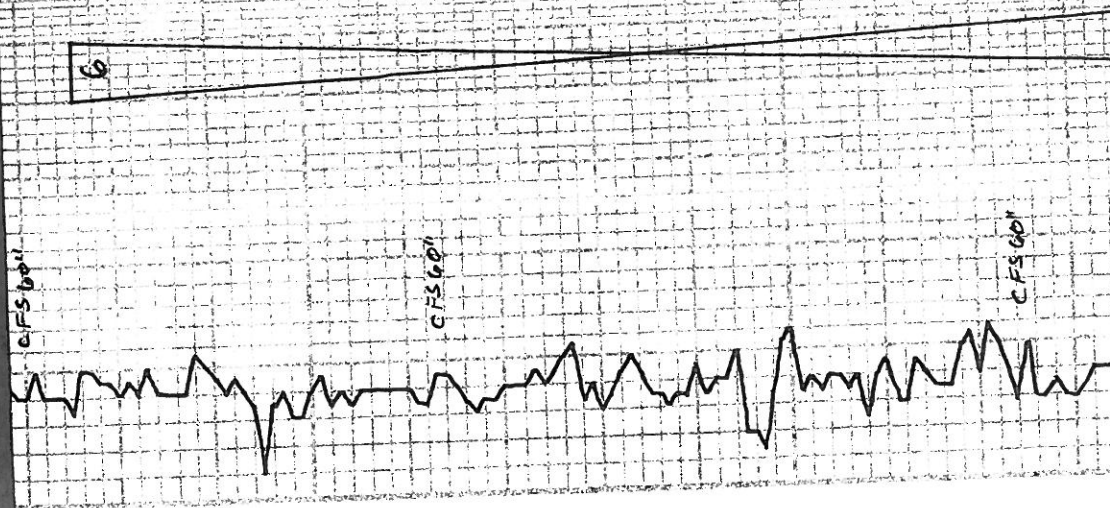
4800

CFS 60'

CFS 60'

CFS 60'

6



LS. CRM, WHT, SCT WHT CHT,
V HRD, V DNS, SCT FOSS, NS

CHT, WHT, TAN, BRN, Pcs FOSS,
SHARP, NS

LS. TAN, F → M XTLN, SOFT, FLUOR
O COAT'D STMG, MICRO FLUOR
SPTS ON BRK, THIN ZONE

CHT LM Y, BRN, V DNS, V FOSS,
FRESH, NS

LS, WHT, V F XTLN, V DNS, V HRD,
TINE, V CHTY

LS, WHT, F XTLN, M HRD, SL BRN,
SCT S ML DK BLK DD - DRY-OIL
CAKED VUGS, WHISP ODR, THIN

LS, TAN, O STD'D, GRNLR, S → M
HRD, DRY O COAT'D BRN STMG,
FEW SCT M BRN O SPTS ON BRK
& ENERGY

LS. CRM, CHLKY, SOFT, NS

LS, GRY, WHT, CHLKY, F XTLN,
SOFT, FEW FOSS, NO APPINS

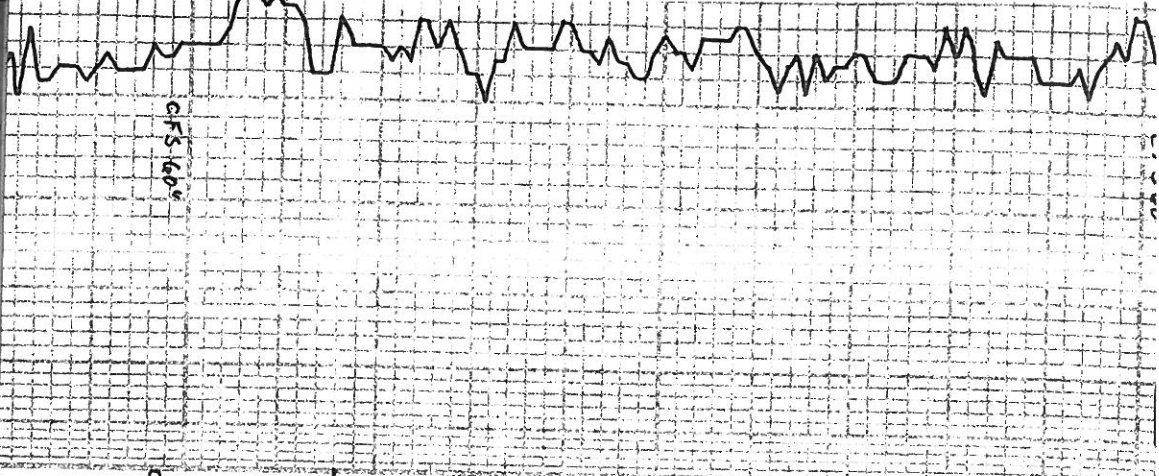
LS, GRY, V F XTLN, HRD, DNS,
NO FOSS, TITE, NS

LS, WHT, V F XTLN, CHTY, CWHD,
HRD, DNS, NS

VLT
ODOR

3. Pcs
WK ODR

7:1 AM 6.1.12
DRLG @ 4824
MUD CHECK
VIS GS WT 9.1
CHLOR 6,500 LCMZ



CFS 600

MORROW SH
1961-1662

4900

MISS
1934-1735

BRU STAG	LS TAN, BRN, EXTW, HRD, FOS, FOS SET OOL, WCMTD, UP-TITE, MS
SH, VARI COLOR	LS, GRY/TAN, VE XTW, HRD, V DNS, V FEW FOS, TITE, MS
SH, VARI COLOR	SS CLR GRWS, BRN + GRW CMT, W SORT, F W GRWS, G INT GRULR P, MS
	SS, WHT, W SORT, FRIABLE, SCT YCS HRD, V L P, MS
	LS, TAN, GRY, F XTW, SL FOS, SCT CHT (GRY, TAN), MS
	SS TAN, WHT GRWS, WHT CMT, SH HRD, W SORT, F GRWS, W CMTD, TITE, P, MS
	LS TAN, GRM, EXTW, HRD, DNS, PCS MXTS WIN, NO APP, MS
	LS, WHT, EXTW, SCT MXTS W, HRD, V FEW FOS, TITE, MS
	LS, TAN, EXTW, MS, HRD, TITE

DST #6 4726-4848
30.60.45.90

IF: 5 1/2" 151:NR
FF: 4" FSI: NR

REC: 100' M w TR OIL
190' SOC M 3% OIL
90' WCM 22% W

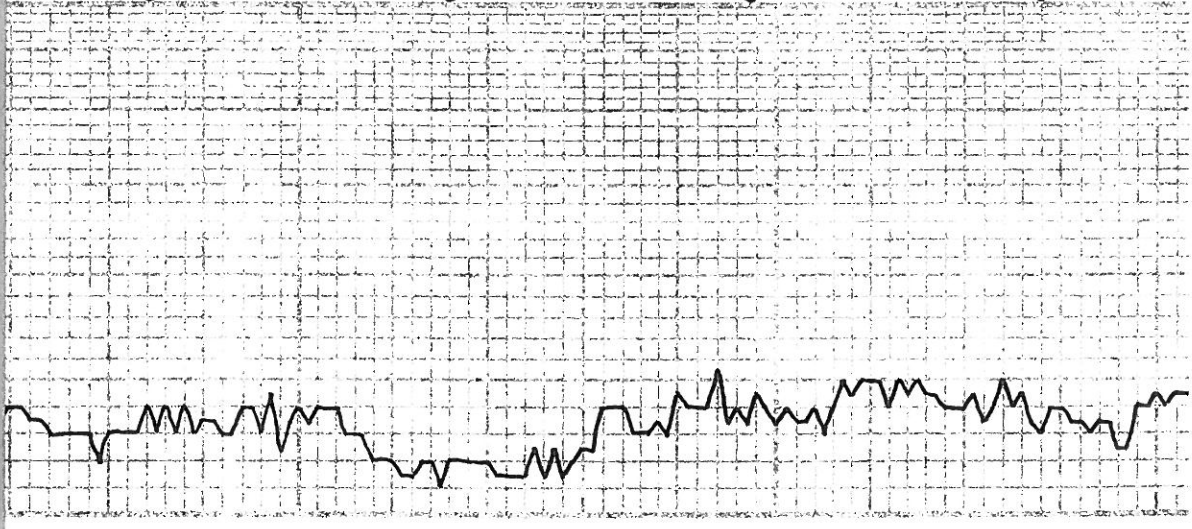
TOOL: 7% W, TR OIL
CHLOR 31,000

FP: 16.103, 108-197
SIP: 1169-1154
HP: 2210-2208

7:AM 6.2.12

DRL @ 4918'
MUD CHECK

VS 68 WT 9.4
CHLOR 8000 LCM 1
FILT 9.6



5000

<p>LS, CRM, VF XTLN, SOFT, BRTH, DNS, NO FOSS, ? Ø, NS</p>	<p>LS, CRM, WHT, F XTLN, V FOSS, HG FOSS, P XTLN + FOSS Ø, NS</p>	<p>LS, WHT, CRM, F → XTLN, SL GRNLR TXT, V HRD, DNS, NO APP, NS</p>	<p>LS, SMDY, SL REWLS, CHLKY, SL HRD, ? XTLN Ø, NS</p>	<p>SS, CLR GRNS, M → LG GRNS, F SORT, SL CMTD, V G Ø, NS</p>	<p>CHT, WHT, BRN Pcs (SPICES) W FRESH</p>	<p>LS, GRY, VF XTLN, DNS, HRD, TITE, NS</p>	<p>LS, TAN, BRN, CRM, F XTLN, FEW FOSS, V HRD, NO Ø, NS</p>	<p>CHALK</p>	<p>CHT, TAN, GRN STMD, TAN, NOSES, SL WEATH</p>
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