



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1151285
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: _____



1151285

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: 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: _____ _____
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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
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 11, 2013

Ted McHenry
Raymond Oil Company, Inc.
PO BOX 48788
WICHITA, KS 67201-8788

Re: ACO1
API 15-203-20218-00-00
Eder 1-27
NW/4 Sec.27-20S-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 Company Inc.

27-20-35 Wichita Co KS

P.O. Box 48788
Wichita KS 67202

Eder 1 27

Job Ticket: 50194

DST#: 2

ATTN: Max Lovely

Test Start: 2013.04.30 @ 05:13:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:35:45

Time Test Ended: 11:34:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: 4546.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 3174.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

3163.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8365 Outside

Press @ Run Depth: 22.08 psig @ 4547.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.30

End Date: 2013.04.30

Last Calib.: 2013.04.30

Start Time: 05:13:15

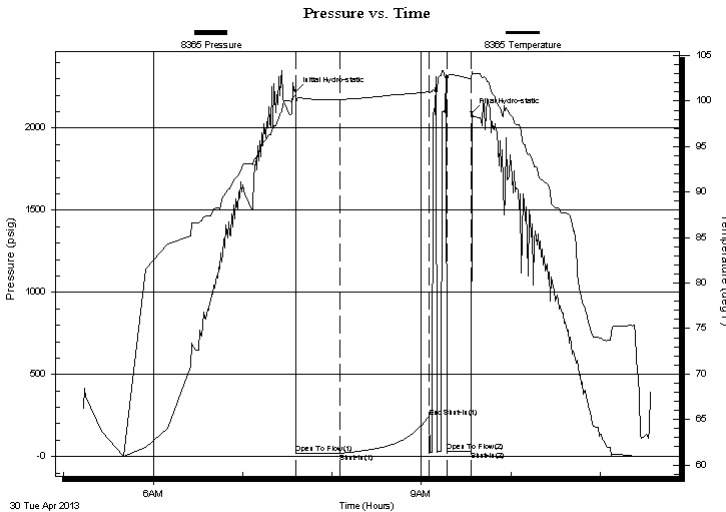
End Time: 11:34:00

Time On Btm: 2013.04.30 @ 07:35:30

Time Off Btm: 2013.04.30 @ 09:34:00

TEST COMMENT: IF: Bubble and died
IS: No return blow
FF: No blow -- Flushed tool --- No blow -- Flushed tool Pulled test
FS: Pulled test

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2224.49	100.55	Initial Hydro-static
1	19.39	99.60	Open To Flow (1)
30	22.08	100.20	Shut-In(1)
90	242.13	101.02	End Shut-In(1)
102	34.06	102.29	Open To Flow (2)
118	35.34	102.49	Shut-In(2)
119	2096.03	103.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.05

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.

27-20-35 Wichita Co KS

P.O. Box 48788
Wichita KS 67202

Eder 1 27

Job Ticket: 50194

DST#: 2

ATTN: Max Lovely

Test Start: 2013.04.30 @ 05:13:15

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	mud 100% m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

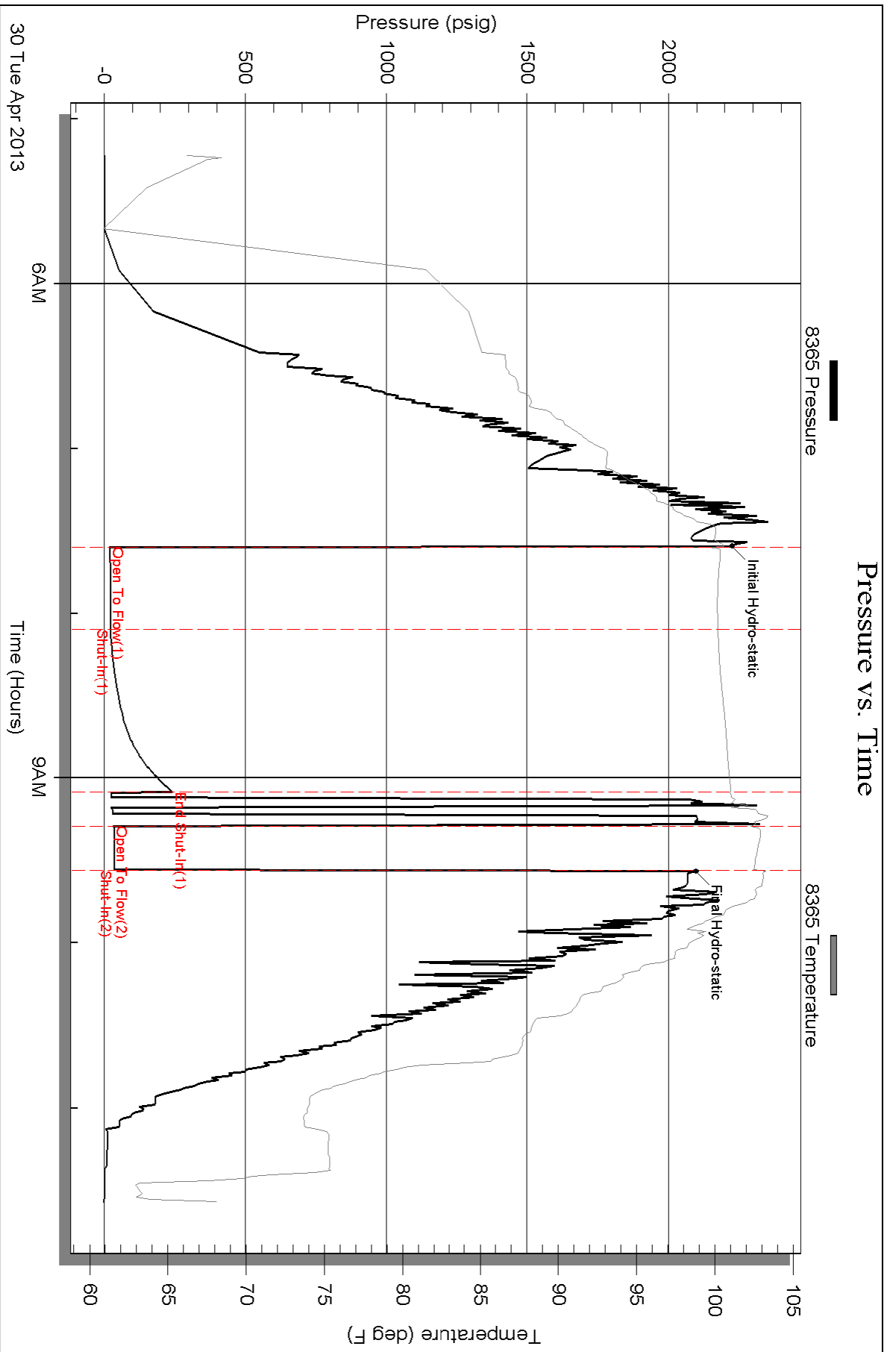
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

27-20-35 Wichita Co KS

P.O. Box 48788
Wichita KS 67202

Eder 1 27

Job Ticket: 50195

DST#: 3

ATTN: Max Lovely

Test Start: 2013.04.30 @ 03:57:15

GENERAL INFORMATION:

Formation: **Myrick**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:08:30

Time Test Ended: 14:25:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: 4620.00 ft (KB) To 4653.00 ft (KB) (TVD)

Reference Elevations: 3174.00 ft (KB)

Total Depth: 4653.00 ft (KB) (TVD)

3163.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8646

Inside

Press @ Run Depth: 458.19 psig @ 4621.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.30

End Date: 2013.04.30

Last Calib.: 2013.05.01

Start Time: 03:57:15

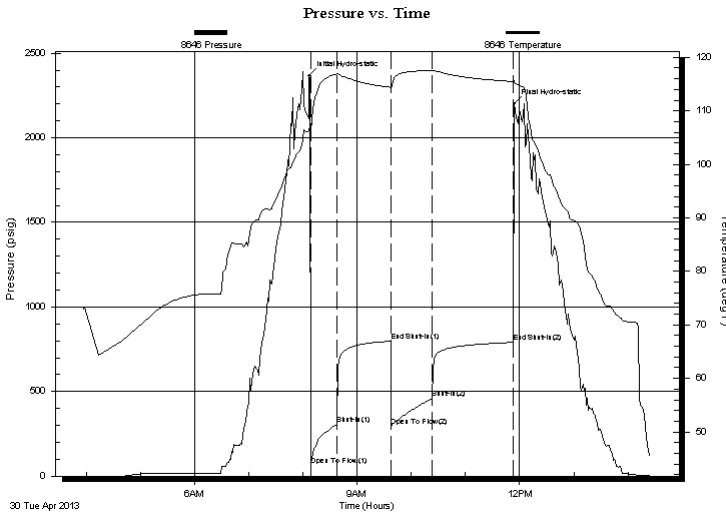
End Time: 14:25:15

Time On Btm: 2013.04.30 @ 08:07:00

Time Off Btm: 2013.04.30 @ 11:54:15

TEST COMMENT: IF:BOB in 3 min.
IF:No return blow
FF:BOB in 15 min
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2366.41	106.59	Initial Hydro-static
2	63.90	105.22	Open To Flow (1)
31	307.53	116.89	Shut-In(1)
91	797.54	114.40	End Shut-In(1)
91	293.58	114.04	Open To Flow (2)
137	458.19	117.48	Shut-In(2)
226	790.78	115.46	End Shut-In(2)
228	2201.27	115.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
366.00	sw 100% sw	1.80
276.00	mcw 5% m 95%sw	3.87
194.00	ocw m 3 %o 47%w 50%m	2.72

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.

27-20-35 Wichita Co KS

P.O. Box 48788
Wichita KS 67202

Eder 1 27

Job Ticket: 50195

DST#: 3

ATTN: Max Lovely

Test Start: 2013.04.30 @ 03:57:15

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:

22000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
366.00	sw 100% sw	1.800
276.00	mcw 5% m 95%sw	3.872
194.00	ocw m 3 %o 47%w 50%m	2.721

Total Length: 836.00 ft Total Volume: 8.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

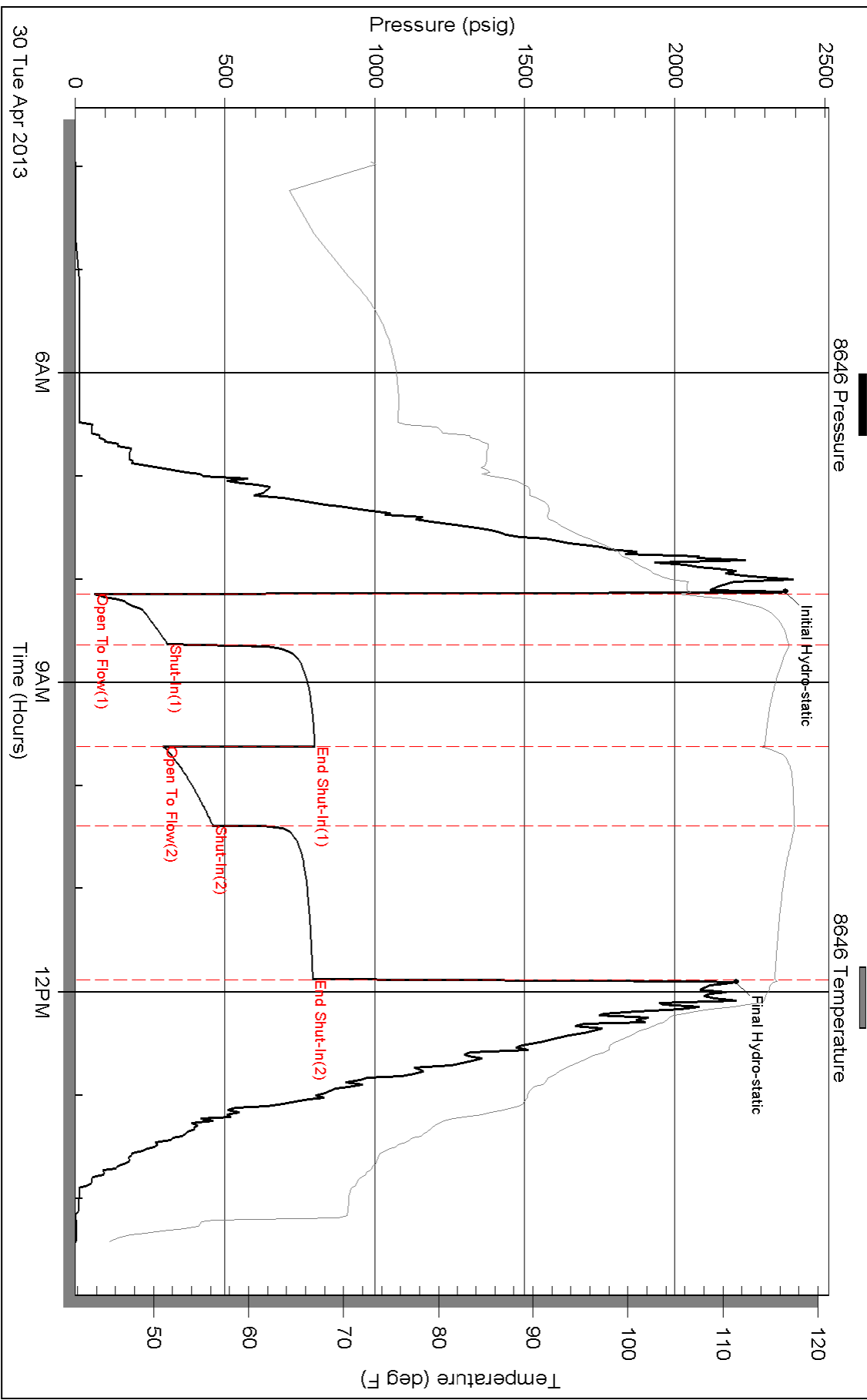
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .358 @ 74.7*=22,000 ppm

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

27-20-35 Wichita Co KS

P.O. Box 48788
Wichita KS 67202

Eder 1 27

Job Ticket: 50196

DST#: 4

ATTN: Max Lovely

Test Start: 2013.05.02 @ 09:20:15

GENERAL INFORMATION:

Formation: **Johnson-Atoka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:49:30

Time Test Ended: 17:37:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: 4750.00 ft (KB) To 4850.00 ft (KB) (TVD)

Reference Elevations: 3174.00 ft (KB)

Total Depth: 4850.00 ft (KB) (TVD)

3163.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8646

Inside

Press @ Run Depth: 100.88 psig @ 4751.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.02

End Date:

2013.05.02

Last Calib.:

2013.05.02

Start Time: 09:20:15

End Time:

17:37:45

Time On Btm:

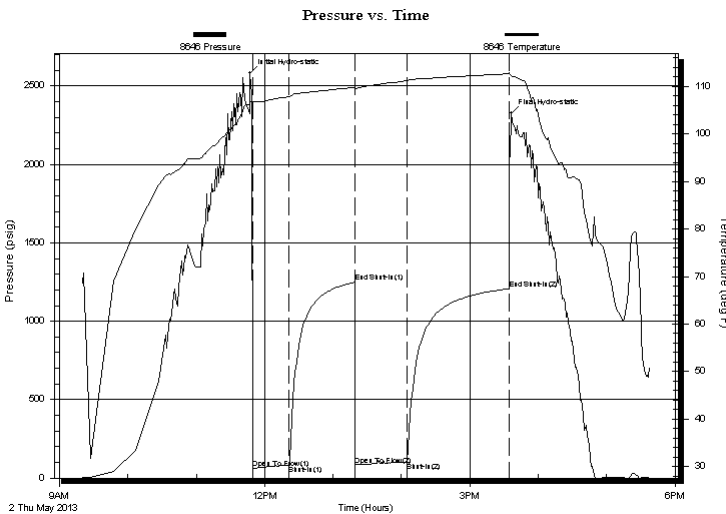
2013.05.02 @ 11:47:15

Time Off Btm:

2013.05.02 @ 15:36:15

TEST COMMENT: IF: Built to 1" blow
IS: Weak surface blow died in 10 min.
FF: No blow
FS: No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2580.02	106.39	Initial Hydro-static
3	60.50	106.50	Open To Flow (1)
34	81.18	107.92	Shut-In(1)
92	1248.22	109.84	End Shut-In(1)
93	83.17	109.15	Open To Flow (2)
138	100.88	111.24	Shut-In(2)
227	1206.65	112.71	End Shut-In(2)
229	2324.25	112.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	mud 100% m	0.46

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.

27-20-35 Wichita Co KS

P.O. Box 48788
Wichita KS 67202

Eder 1 27

Job Ticket: 50196

DST#: 4

ATTN: Max Lovely

Test Start: 2013.05.02 @ 09:20:15

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 11000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	mud 100% m	0.457

Total Length: 93.00 ft Total Volume: 0.457 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

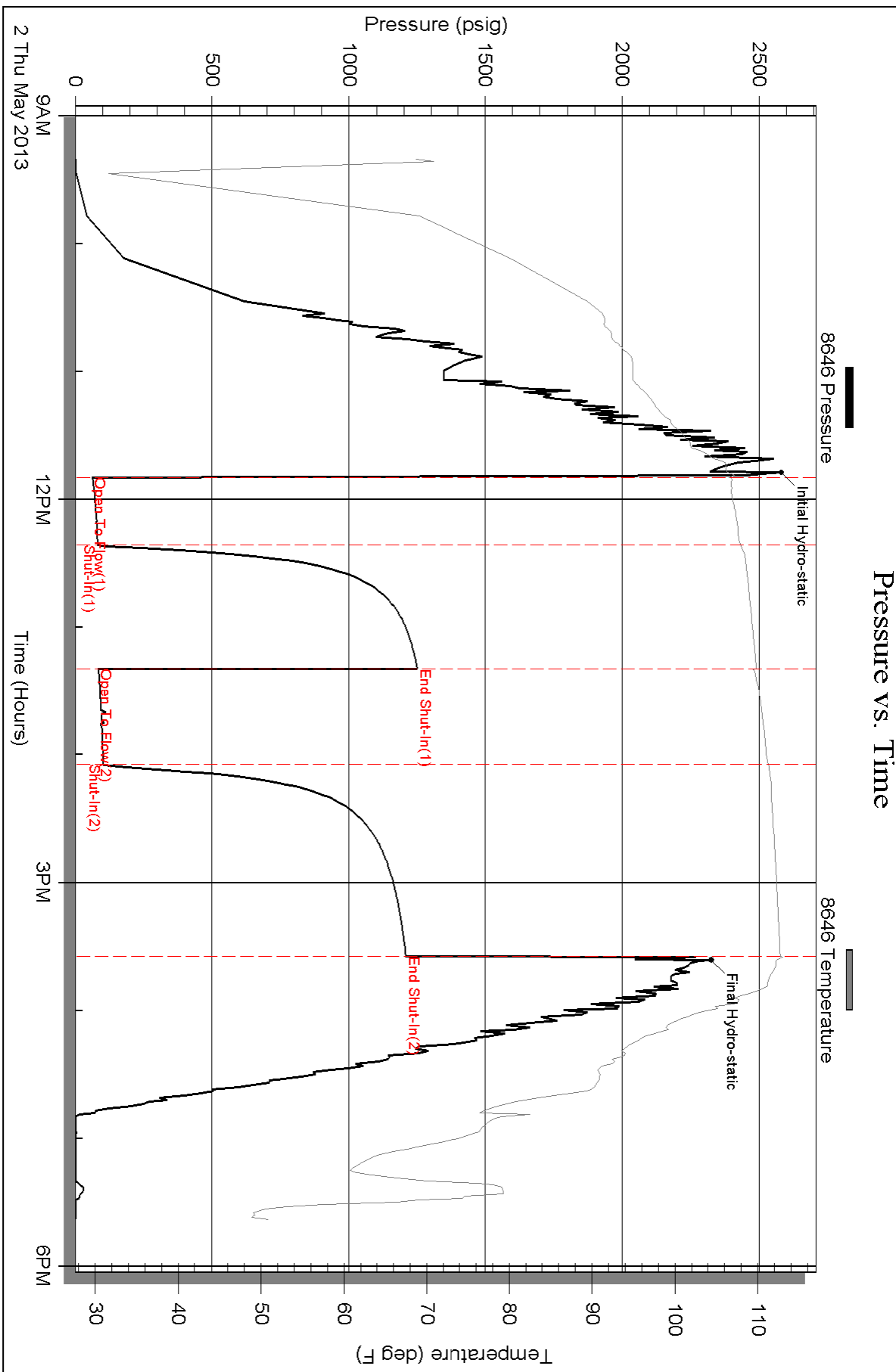
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

27-20-35 Wichita Co KS

P.O. Box 48788
Wichita KS 67202

Eder 1 27

Job Ticket: 50193

DST#: 1

ATTN: Max Lovely

Test Start: 2013.04.29 @ 13:00:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:34:45

Time Test Ended: 21:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Interval: 4518.00 ft (KB) To 4545.00 ft (KB) (TVD)

Reference Elevations: 3174.00 ft (KB)

Total Depth: 4545.00 ft (KB) (TVD)

3163.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8646

Inside

Press @ Run Depth: 296.66 psig @ 4519.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.29

End Date:

2013.04.29

Last Calib.:

2013.04.29

Start Time: 13:00:15

End Time:

21:45:30

Time On Btm:

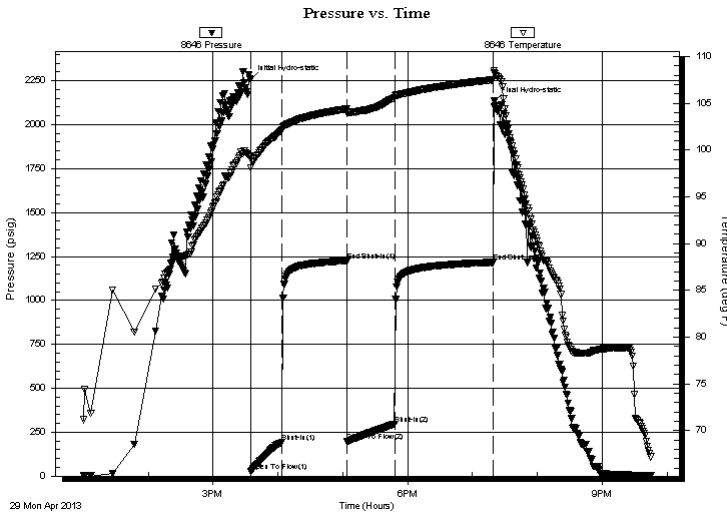
2013.04.29 @ 15:34:30

Time Off Btm:

2013.04.29 @ 19:20:15

TEST COMMENT: IF:BOB in 26 min.
IS:No return blow
FF:BOB in 28 min.
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.14	99.28	Initial Hydro-static
1	28.10	98.15	Open To Flow (1)
30	191.72	102.17	Shut-In(1)
89	1225.26	104.41	End Shut-In(1)
90	195.60	103.97	Open To Flow (2)
134	296.66	105.56	Shut-In(2)
225	1216.91	107.52	End Shut-In(2)
226	2133.37	108.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
366.00	mcsw 5% m 95% sw	1.80
184.00	sw cm 50% sw 50% m	2.58
92.00	mcsw 40% m 60% sw	1.29

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company Inc.

27-20-35 Wichita Co KS

P.O. Box 48788
Wichita KS 67202

Eder 1 27

Job Ticket: 50193

DST#: 1

ATTN: Max Lovely

Test Start: 2013.04.29 @ 13:00:15

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:

19000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
366.00	mcsw 5%m 95%sw	1.800
184.00	sw cm 50%sw 50%m	2.581
92.00	mcsw 40%m 60%sw	1.291

Total Length: 642.00 ft Total Volume: 5.672 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

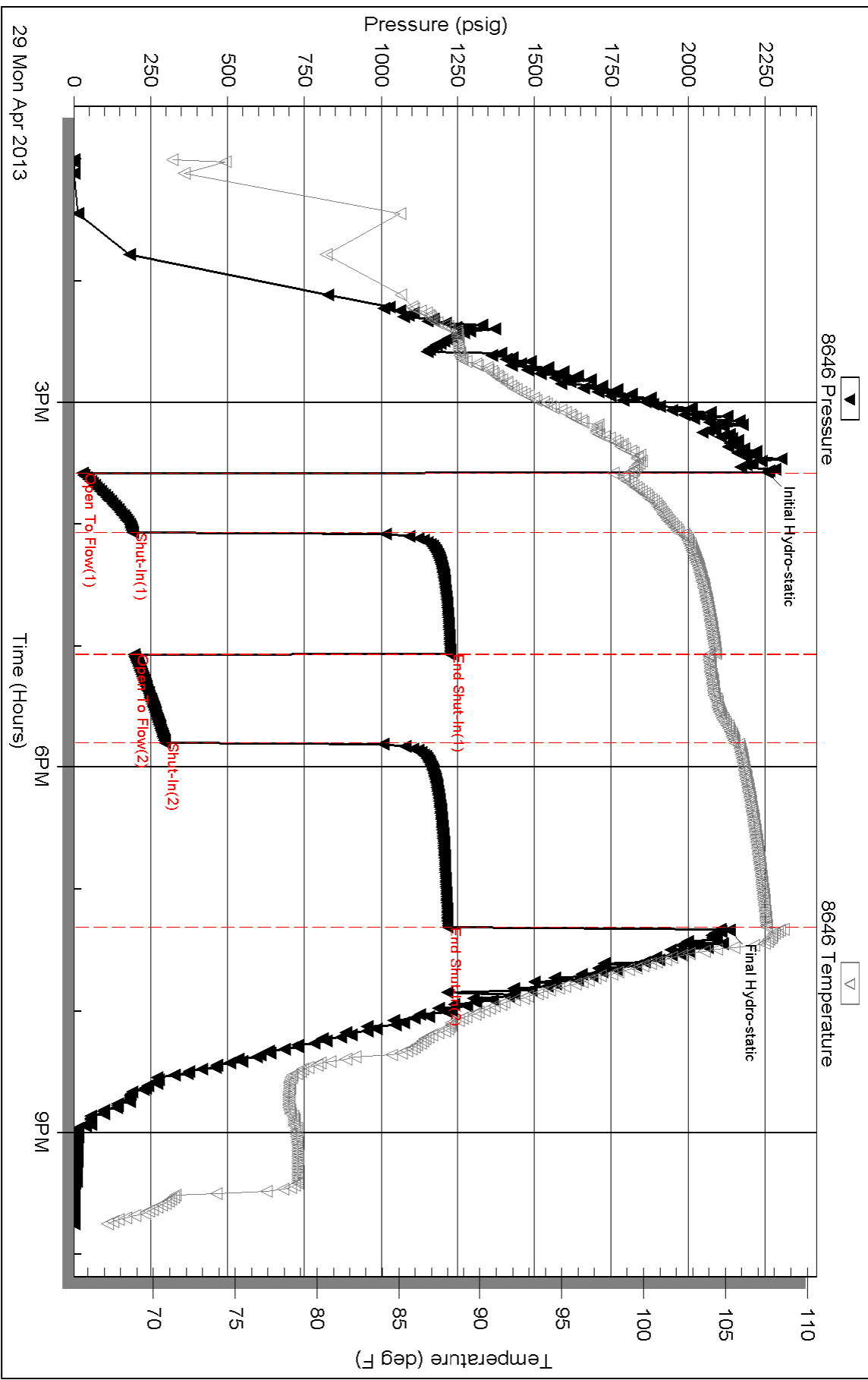
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .360 @74.3 = 19,000 ppm

Pressure vs. Time



258171

TICKET NUMBER 39437
LOCATION Oakley KS
FOREMAN Miles Shaw

Box 884, Chanute, KS 66720
20-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

US

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
4-20-13	7158	Eder 1-27	27	20S	36W	Wichita	
CUSTOMER <u>Raymond Oil</u>		MARIEN TRAIL US SOUTH TO AD/HA 26 25 1/2 # S.S		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				405	Sarah Y/Sand S		
CITY		STATE		397	Tim		
		ZIP CODE					

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 267 CASING SIZE & WEIGHT 85# 23#
CASING DEPTH 265.43 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
DISPLACEMENT 15 1/2 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and rig up on H2 Right/ Circulate casing mix 200 sacks
Common class A cement with 3% calcium 2% gel displac 15 1/2 bbls water
Shut in cement did circulate 2 1/2 bbls to pit

Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085.00	1085.00
5406	600	MILEAGE	5.00	300.00
5407	9.4 tons	Ton Mileage delivery	1.67	156.98
11045	200 Sks	Common Class A Cement	17.65	3530.00
1102	564 #	Calcium Chloride	.89	501.96
1118B	376 #	Bentonite gel	.25	94.00
			Subtotal	6452.96
			less 10% discount	645.30
			Subtotal	5807.66
			SALES TAX	308.20
			ESTIMATED TOTAL	6115.86

completed

Ravin 3737

AUTHORIZATION José Carlos Sabelo

TITLE _____ 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.

THREE AMIGOS GEO SERVICE

Max R. Lovely

Ted McHenry

Kevin Kessler

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Raymond Oil Co.
 LEASE Eder #1-27
 FIELD Wildcat
 LOCATION SW NW NE NW
 SEC 27 TWP 20 RGL 35W
 COUNTY Wichita STATE KS
 CONTRACTOR H2 #1
 SPUD 4-19-2013 COMP 5-3-2013
 LTD 5150 LTD 5150
 ADD UP 3450 TYPE AND Chem

ELEVATIONS

KB 3174

DF

GL 3163

Measurements Are All
From KB

CASING

SURFACE 858 @ 265'

PRODUCTION

ELECTRICAL SURVEYS

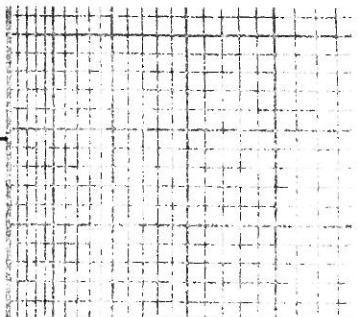
DUAL IND MICRO

Comp N/D

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION		
				A	B	C
Anhydrite	2270					
Base Anhydrite	2290	2287	887	888	873	
Stoller	3537	3543	-389	-388	-375	
Heebner	3976	3976	-802	-807	-790	
Lansing	4028	4022	-848	-858	-855	
Muncie	4228	4227	-1053	-1060	-1050	
Hushpuckney	4387	4399	-1225	-1234	-1221	
Marmaton	4514	4512	-1342	-1354	-1343	
Pawnee	4606	4606	-1432	-1438	-1433	
Myric	4630	4630	-1456	-1472	-1463	
Fl. Scoll	4657	4658	-1484	-1490	-1487	
Cherokee	4696	4690	-1516	-1525	-1517	
Johnson	4736	4732	-1558	-1568	-1557	
Mississippi	4863	4862	-1788	-1789	-1791	

ANHYDRITE
2269 + 905



0" 15" 20" 25"

TIME IN MINUTES
PER FOOT
Penetration Decreases

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

SOIL SHOWS

REMARKS

- Anhydrite
- Salt
- Sandstone
- Shale
- Sand sh
- Limestone
- Coquina
- Chert
- Dolomite

LEGEND

Blank lined area for additional notes or remarks.

BASE
ANHYDRITE
2289 + 885

2300

3450
DEV 1/2°

SH, RED, GRY

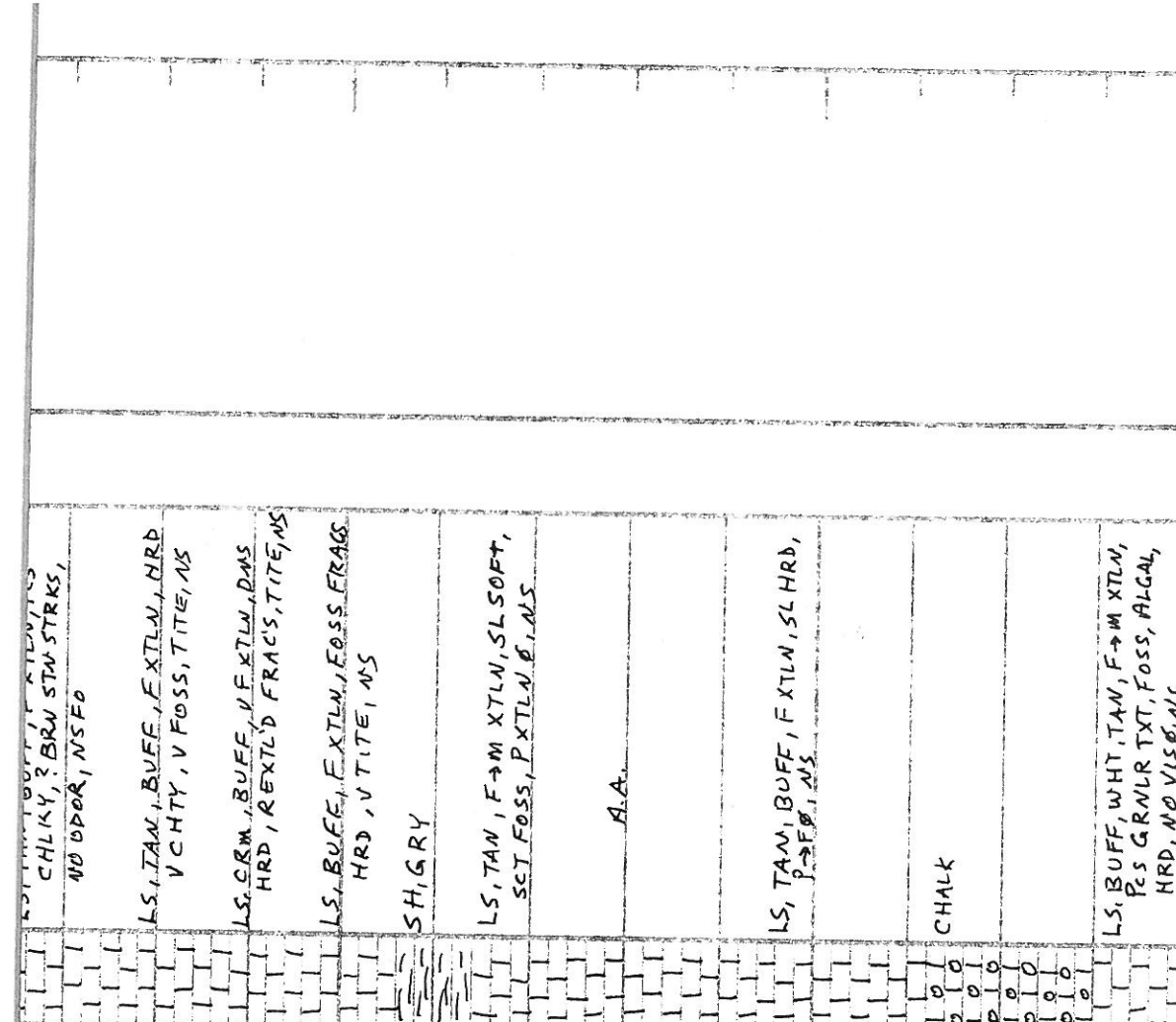
BIT TRIP

LS, TAN, F → M XTLN, ABUN ALGAL
+ SML FOSS, SOFT → BRTH, NS

LS, CRM/TAN, F → M XTLN, ALGAL,
SOFT, BRTH, NS

3500

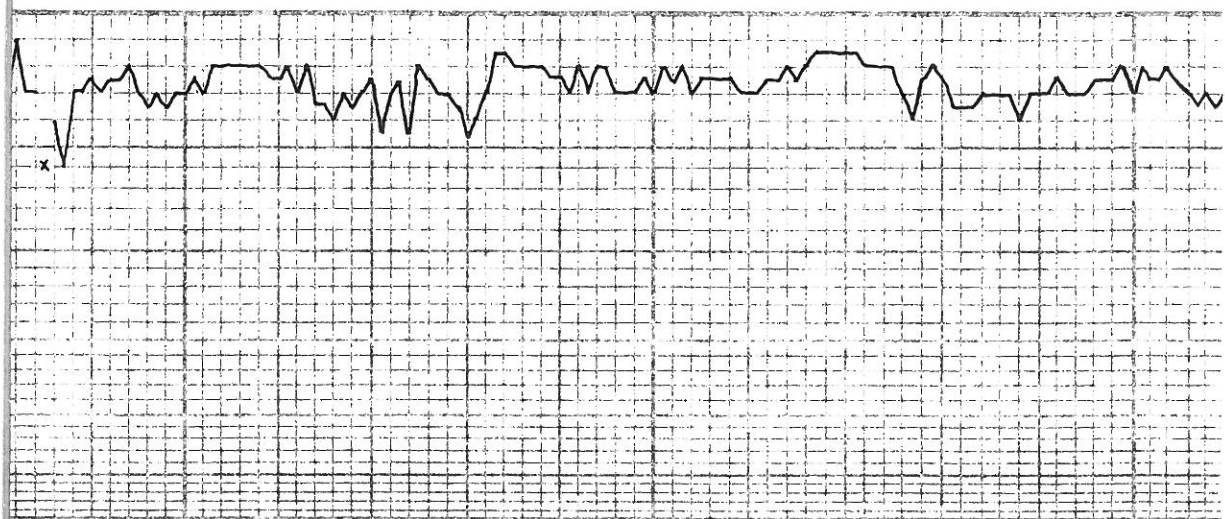
LS, GRY, TAN, SOFT, V FOSS,
F XTLN, NS



LANSING
HD28 - 854

4100

LS, TAN, BUFF, EXTLN, HRD VCHTY, V FOSS, TITE, NS	LS, CRM, BUFF, V FXTLN, DAS HRD, REXTLD FRACS, TITE, NS	LS, BUFF, EXTLN, FOSS FRAGS HRD, V TITE, NS	SH, GRY	LS, TAN, F → M XTLN, SL SOFT, SET FOSS, P XTLN Ø, NS	A.A.	LS, TAN, BUFF, FXTLN, SL HRD, P → F, NS	CHALK	LS, BUFF, WHT, TAN, F → M XTLN, FES GRNLR TXT, FOSS, ALGAL, HRD, NO VIS, NC
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4200

MUSCLE
4228-1054

LS, TAN, GRN, EXTN, CHICKY,
SOFT, SL FOSS, NS

LS TAN, V EXTN, HRD, DMS,
V FEW FOSS, TITE, NS

A.A.

A.A.

LS, GRY, V EXTN, V DMS, V HRD,
V FEW SCT VUGS, TITE, NS

SH, BLK, CARB

LS, BRN, EXTN, LG XTLN w/N,
HRD, FOSS, TITE, NS

LS, WHT, CRN, EXTN, CRS TIT,
BRTL, S → M HRD, V FEW FOSS
NS

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



LS, TAN / WHT, BLK MINS WIN,
VF XTLN, HRD, NO VIS P, NS

DOLO, TAN, VF XTLN, V DMS,
V HRD, WHT INCL'S WIN, TIE
NS

LS, BRN, F XTLN, HRD, V FOSS,
SL ALGAL, ABUN FOSS FRAGS,
P XTLN P, NS

LS, WHT / CRM, VF XTLN, SL HRD,
V OOM Ø, NO PERM, NS

A.A.

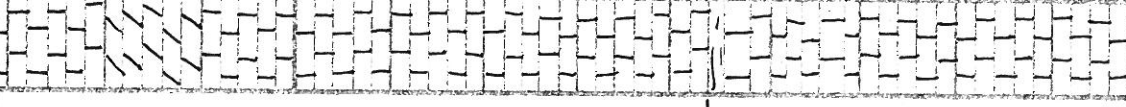
LS, LT GR, VF XTLN, V OOL,
WCMT'D OOLS, NO APP, NS

LS GR, VF XTLN, DNS, HRD,
TIE, NS

SH, GRN / GR

LS, TAN, VF XTLN, V FOSS, HRD,
NO P, NS

LS, BUFF, F XTLN, HRD, V SL
GRN LR TXT, SCT SML FOSS,
V P P, NS

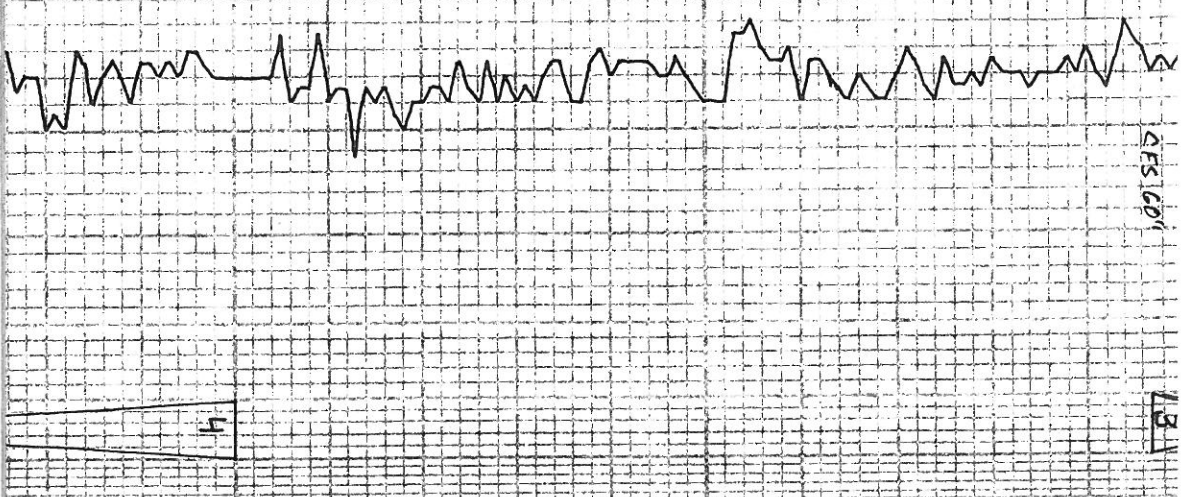


4300

STARIC
4344 - 1170

4651601

181



FT SCOTT
4657-1483

SH, GRV + BLK

LS, CRM TAN, BRN, T XTL, MST DB,
MICRITIC IN PRT, RARE FOSS,
MINOR DBL NUØ, NSØ, NO DBØØØ
MINOR GRV SH

LS, CRM → GRV → TAN → GRV, EXTL,
DWS, SL FOSS, MINOR DBL'S,
TITE NUØ, NSØ

7uHW

CHEEROKEE
4686-1512

SH, BLK

LS, CRM → GRV, EXTL, DWS,
MULTIØD W/PRT, SL FOSS, NVØ,
NS

LS, AA, W/INT BDDØ DK GRV SLTY →

12½ UHW

4700

BLK CARB SH

LS, CRM → GRV, TAN → BRN, EXTL,
MIC W/PRT, SL FOSS, DWS,
BR TIL, NUØ, NSØ

INT BDDØ DK GRV → BLK SH,
+ DWS MICRITIC TAN → BRN
LS, NUØ, NSØ

LS + SH, AA, NUØ, NSØ

JOHANSON
4736-1562

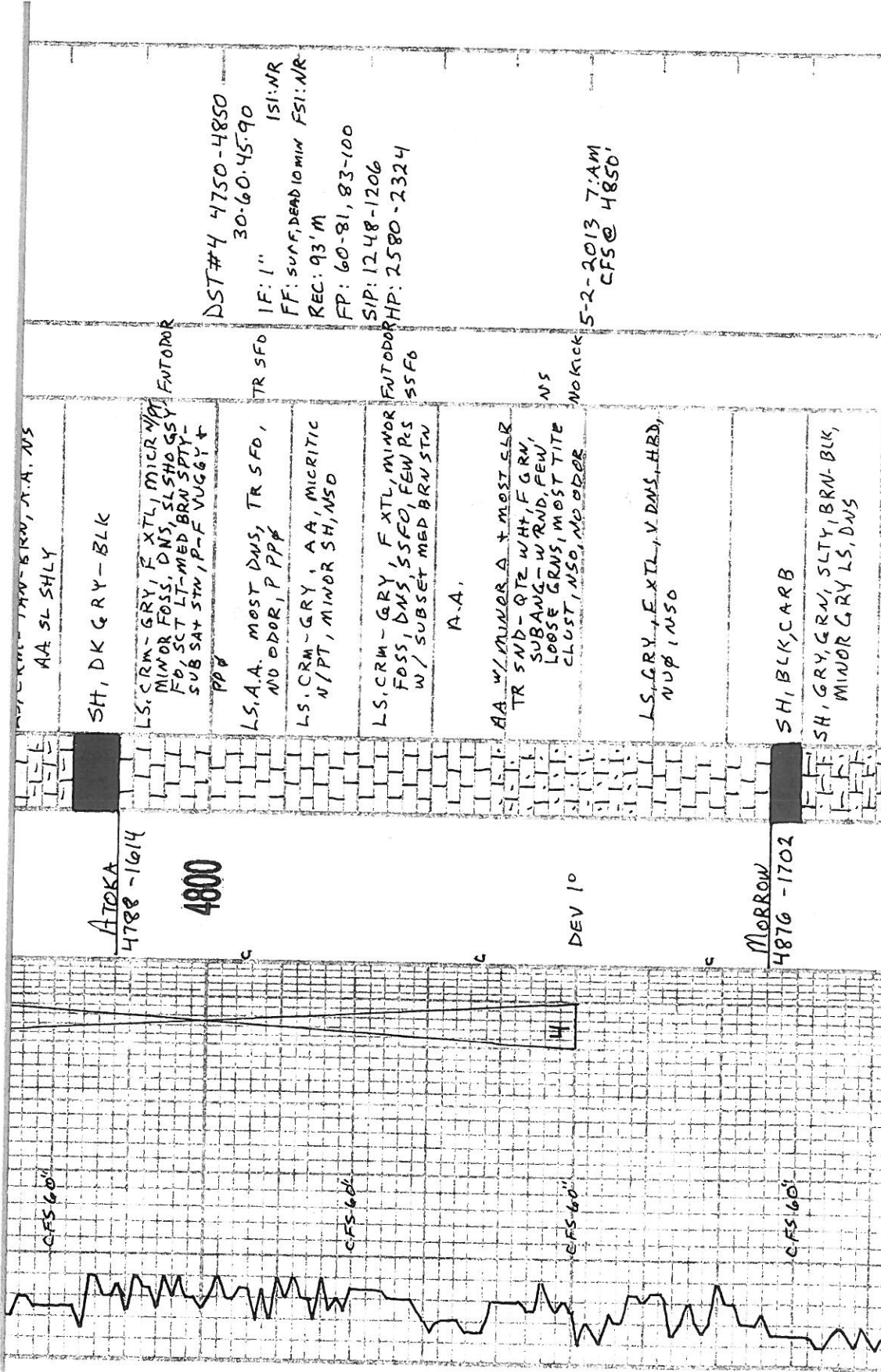
LS, CRM → TAN → GRV, EXTL,
DWS, HRD, RARE FOSS, NUØ, NSØ,
AREWACENS IN PRT

LS, CRM → GRV → TAN, EXTL, MOST
DWS, AREWACENS IN PRT,
SSFO, FWT ØDØØ, SCTSPY →
SUBSAT, LT BRW STN, PØØØ
INTERPRT Ø

FWT ØDØØ
SSFO
LT BRW
STN

7:11 AM 5-1-2013
GFS @ 4653
KEVIN KESSLER ON LOCK
@ DST#3

DST#3 4620-4653
30:45.60.90
1F: BOB 3min 151. NR
FF: BOB 15min EST. NR
Rec: 194' OCWM 3/0, 47XW
276' MCW 95% W
366' SW
CHLDR 27,000
FP: 63-307, 293-458
SIP: 797-790
HP: 2366-2201



ATOKA
4788 - 1614

4800

DEV 10

MORROW
4876 - 1702

AA SL SHLY

SH, DK GRY - BLK

LS. CRM - GRY, F XTL, MICR M/P
MINOR FOSS, DNS, SL SHO GSY
FO, SCT LT-MED BRN SPTY -
SUB SAT STN, P-F VUGGY +
PP#

LS, A.A. MOST DNS, TR SFO,
NO ODOR, P PP#

LS. CRM - GRY, AA, MICRITIC
N/PT, MINOR SH, NSD

LS. CRM - GRY, F XTL, MINOR
FOSS, DNS, SSSFO, FEW PS
W/ SUBSET MED BRN STN

A.A.

AA W/MINOR A + MOST CLR
TR SND - QTE WHT, F GRN,
SUBANG - W RND, FEW
LOOSE GRNS, MOST TITE
CLUST, NSO, NO ODOR

LS, GRY, EXTL, V DNS, HRD,
NU# 1 NSO

SH, BLK, CARB

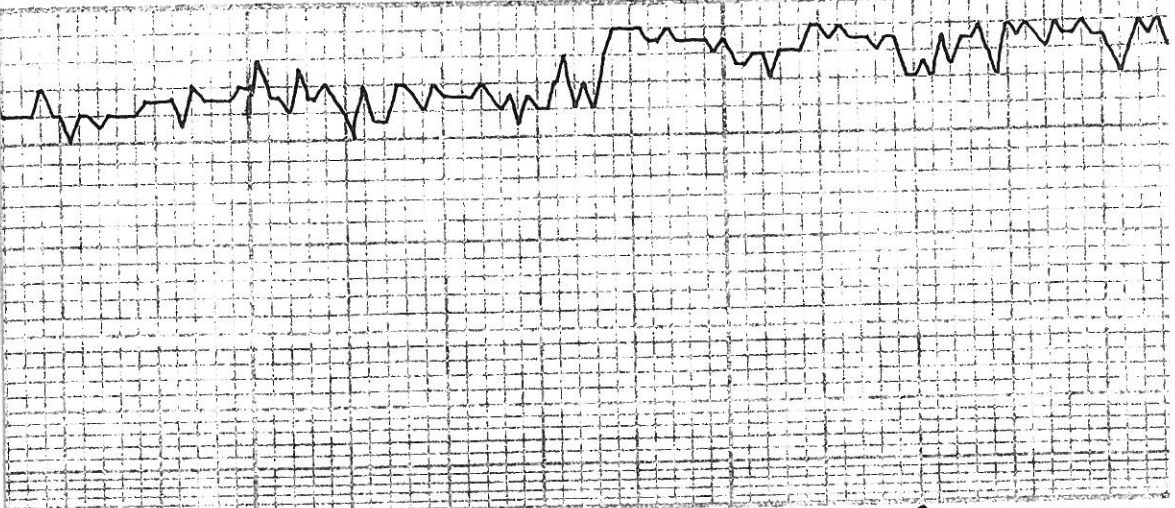
SH, GRY, GRN, SLTY, BRN-BLK,
MINOR GRY LS, DNS

DST#4 4750-4850
30:60:45.90
IF: 1"
FF: SUFF, DEAD 10 MIN FSI: NR
REC: 93' M
FP: 60-81, 83-100
SIP: 1248-1206
HP: 2580-2324

5-2-2013 7:AM
CFS@ 4850'

ENTODOR
TR SFO
ENTODOR HP: 2580-2324

NO KICK



ST. GEN
4663 - 1789

5000

ARGILLACEOUS, MINOR CRM, GRV LS, PYR, MSID
A.A.
A.A.
LS, CRM-GRY, F XTL, DMS, COOL W/PT, MINOR PHOSPHATE PELLETS, FAIR AMT SH, AA, MS
LS, CRM-GRY, MS, MOTTLE, DMS, OOL N/PT, MS, MS
SS, WHT, F GRMS, W SORT, SUB RMB → RMB, TITE, CLUST: P VIS IWT GRW Ø, MSO
LS, CRM-GRY, F XTL, SUBCHLK, DMS, ARENIC N/PT, SL FOSS, MS
LS, AA.
LS, CRM-WHT, F XTL, SUBCHLK, DMS, ARENIC, SL FOSS, P VIS IWT PRT Ø, MSO
A.A.
LS, CRM-WHT, F XTL, SUBCHLK, DMS, ARGILLACEOUS, RARE FOSS, P VIS Ø, MS
SND, WHT, F GRM, W SORT, SUB RMB - WELL RMB, FRIBBLE, FAIR AMT SH, AA, MS

7:AM 5-3-2013
DRLG @ 5019'

THIN PLATE 17, 2030

A.A. NSO

SS. AA. W/ MINOR

LS, DNS, SL FOSS, NUØ, NSO

LS CRM, TAN, BRN, F XTL-MED
XTL FOSS M/PRT, HRD, DNS,
NOØ, NSO

LS, AA, NS

A.A, NS

LS, CRM-WHT, GRAN. FLL,
SUB CHKY - MOST DNS SL
FOSS, NOØ, NS

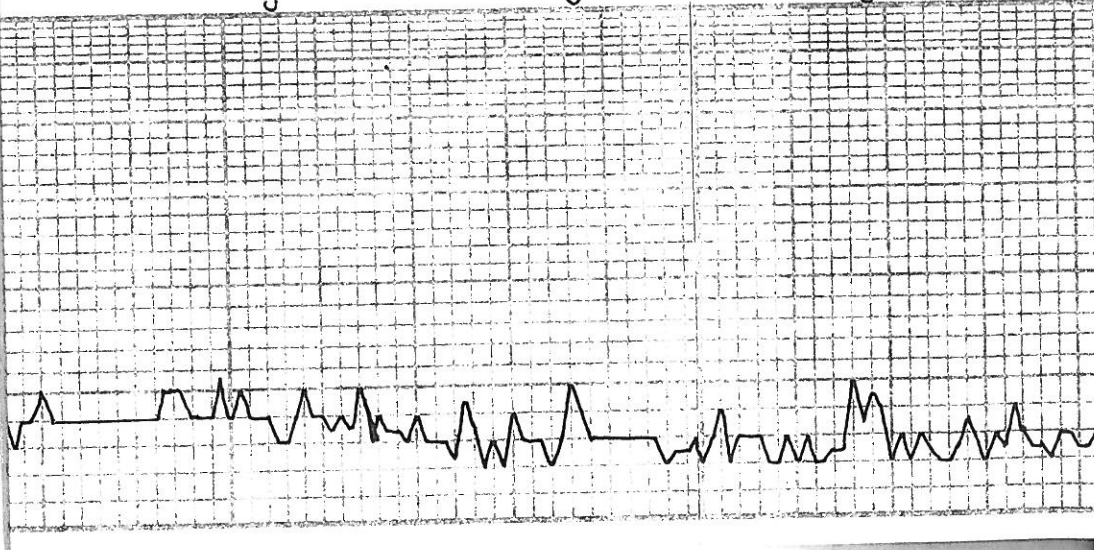
LS, CRM-WHT, A.A, MOST DNS
RARE FOSS, ØDL, NOØ, NS

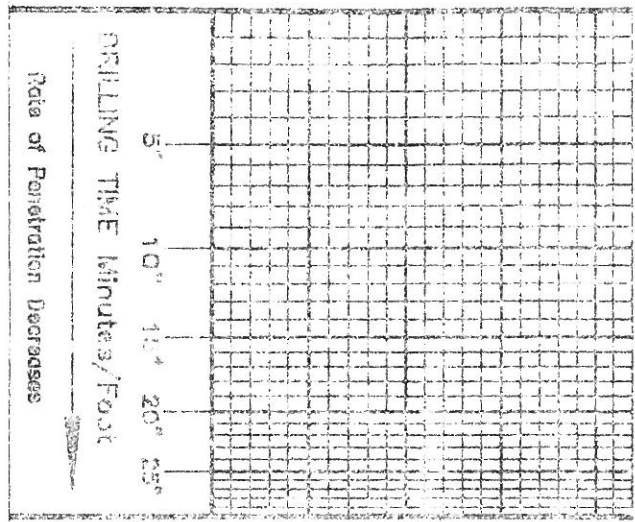
A.A.

LS, CRM-WHT, F XTL, MOST,
DNS, MEALY LOOKING, RARE
FOSS, NOØ, NSO

LS, WHT-CRM, F XTL, SUB CHKY
DNS, ØDL, TITE, P INT PART
Ø, NSO

5100





DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS