



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1167174
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: _____



1167174

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

263181

TICKET NUMBER **44278**
LOCATION Oakley, KS
FOREMAN Jerry / Walt

Box 884, Chanute, KS 66720
10-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-11-13	7158	Keeton Holstein #1	13	20S	36W	Wichita

TRUCK #	DRIVER	TRUCK #	DRIVER
399	Jeremy R		
397	Steve O		

CUSTOMER Raymond Oil
MAILING ADDRESS _____
CITY _____ STATE _____ ZIP CODE _____

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 270' CASING SIZE & WEIGHT 8 5/8 24
CASING DEPTH 266.8 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.7 SLURRY VOL 1.34 WATER gal/sk _____ CEMENT LEFT in CASING 20'
DISPLACEMENT 1866L DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting + rig up on Hartman #4 break circulation w/ rig tree hook up to truck + mix 225 SKs com class A with 3% calcium chloride + 2% gel wash up and displace with 1866L fresh water and shut in circulated approx 566L top out

*Cement did circulate Thank you
Jerry, Walt & Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150 ⁰⁰	1150 ⁰⁰ ✓
5406	60	MILEAGE	5.25	315 ⁰⁰ ✓
5407A	10.6	ton mileage delivery	175	1113 ⁰⁰ ✓
11045	225 SKs	com class A cement	18.55	4173.25 ✓
1102	6.34 #	calcium chloride	.99	595.96 ✓
1186	42.3 #	bentonite gel	.27	114.21 ✓
			subtotal	7461.92
			less 10% disc	-746.19 ✓
			subtotal	6715.73
			8.15%	
			SALES TAX ESTIMATED	358.24 ✓
			TOTAL	7073.97 ✓

AUTHORIZATION [Signature] 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 rendered on this form.



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

263334

TICKET NUMBER 44380
LOCATION Oshtemo Co.
FOREMAN Dauen

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/19/13	7158	Keeton Holstein #1	13	205	36W	Wichita
CUSTOMER Raymond Oil			marioneta Rd 20 115 2 W sinto			
MAILING ADDRESS						
CITY	STATE	ZIP CODE				
TRUCK #						
			463	Cory		
			693	Cody		
			Helper	Jake		

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 5070 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2, 2280 TUBING _____ OTHER _____
 SLURRY WEIGHT 12.5 To 13 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____
 REMARKS: Safety meeting Rig upon H2 #4 Plug as ordered

2280 - 50 SKs
1280 - 80 SKs
600 - 50 SKs
300 - 50 SKs 300 SKs 60/40 4% Gel 1/4" Flo Seal
60 - 20 SKs
Plug Mousehole 20 SKs
Plug Rathole 30 SKs

Thanks Dauen & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	\$1395.00	\$1395.00
5406	60	MILEAGE	\$5.25	\$315.00
5407A	12.9	Ton Mileage Delivery	\$1.25	\$1354.80
1131	300 SKs	60/40 Poz mix	\$15.86	\$4758.00
1118B	1032 #	Bentonite	\$0.27	\$278.64
1127	75 #	Flo Seal	\$2.97	\$222.75
			Sub Total	\$8324.19
			Less 10%	\$832.42
			Sub Total	\$7491.77
			8.15%	SALES TAX
			ESTIMATED	\$385.78
			TOTAL	\$7877.55

completed

Revin 3737

AUTHORIZATION Adrian Lezaru 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



DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company Inc.**

PO Box 48788
Wichita KS 67202

ATTN: Max Lovely

Keeton-Holstein #1

13 20s 36w Wichita, KS

Start Date: 2013.10.15 @ 06:23:00

End Date: 2013.10.15 @ 15:49:45

Job Ticket #: 55518 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.18 @ 12:50:52

Raymond Oil Company Inc. 13 20s 36w Wichita, KS Keeton-Holstein #1 DST # 1 Marmaton 2013.10.15



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55518

DST#: 1

ATTN: Max Lovely

Test Start: 2013.10.15 @ 06:23:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:35:15

Time Test Ended: 15:49:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: 4466.00 ft (KB) To 4548.00 ft (KB) (TVD)

Reference Elevations: 3171.00 ft (KB)

Total Depth: 4548.00 ft (KB) (TVD)

3161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8677 Inside

Press @ RunDepth: 167.60 psig @ 4467.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.15

End Date:

2013.10.15

Last Calib.: 2013.10.15

Start Time: 06:23:05

End Time:

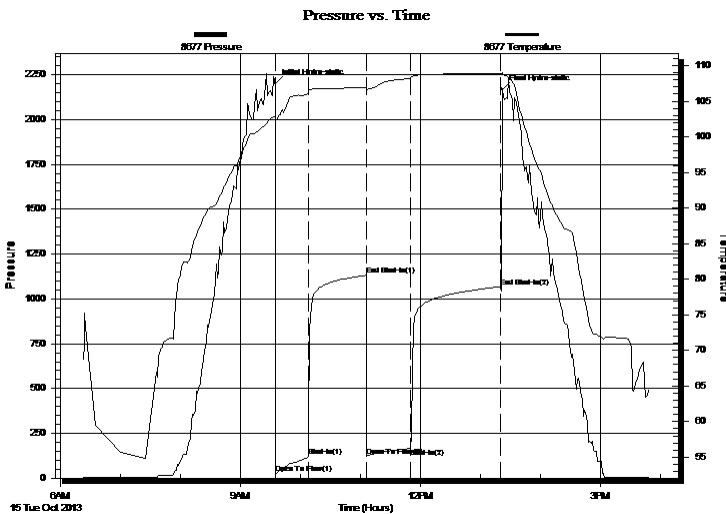
15:49:45

Time On Btm: 2013.10.15 @ 09:35:00

Time Off Btm: 2013.10.15 @ 13:22:00

TEST COMMENT: IF: 7" blow.
IS: No return.
FF: 7" blow.
IS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.06	102.88	Initial Hydro-static
1	24.99	102.22	Open To Flow (1)
33	122.95	106.13	Shut-In(1)
91	1130.99	106.98	End Shut-In(1)
92	124.07	106.45	Open To Flow (2)
136	167.60	108.27	Shut-In(2)
225	1067.92	108.91	End Shut-In(2)
227	2168.47	109.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	mcw 40m 60w (oil specs in tool)	2.09

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55518

DST#: 1

ATTN: Max Lovely

Test Start: 2013.10.15 @ 06:23:00

Tool Information

Drill Pipe:	Length: 4198.00 ft	Diameter: 3.80 inches	Volume: 58.89 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 69000.00 lb
			<u>Total Volume: 60.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4466.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	109.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4440.00	
Shut In Tool	5.00			4445.00	
Hydraulic tool	5.00			4450.00	
Jars	5.00			4455.00	
Safety Joint	2.00			4457.00	
Packer	5.00			4462.00	27.00 Bottom Of Top Packer
Packer	4.00			4466.00	
Stubb	1.00			4467.00	
Recorder	0.00	8677	Inside	4467.00	
Recorder	0.00	8522	Outside	4467.00	
Perforations	13.00			4480.00	
Change Over Sub	1.00			4481.00	
Drill Pipe	63.00			4544.00	
Change Over Sub	1.00			4545.00	
Bullnose	3.00			4548.00	82.00 Bottom Packers & Anchor

Total Tool Length: 109.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55518

DST#: 1

ATTN: Max Lovely

Test Start: 2013.10.15 @ 06:23:00

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:

23000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	mcw 40m 60w (oil specs in tool)	2.089

Total Length: 310.00 ft Total Volume: 2.089 bbl

Num Fluid Samples: 0

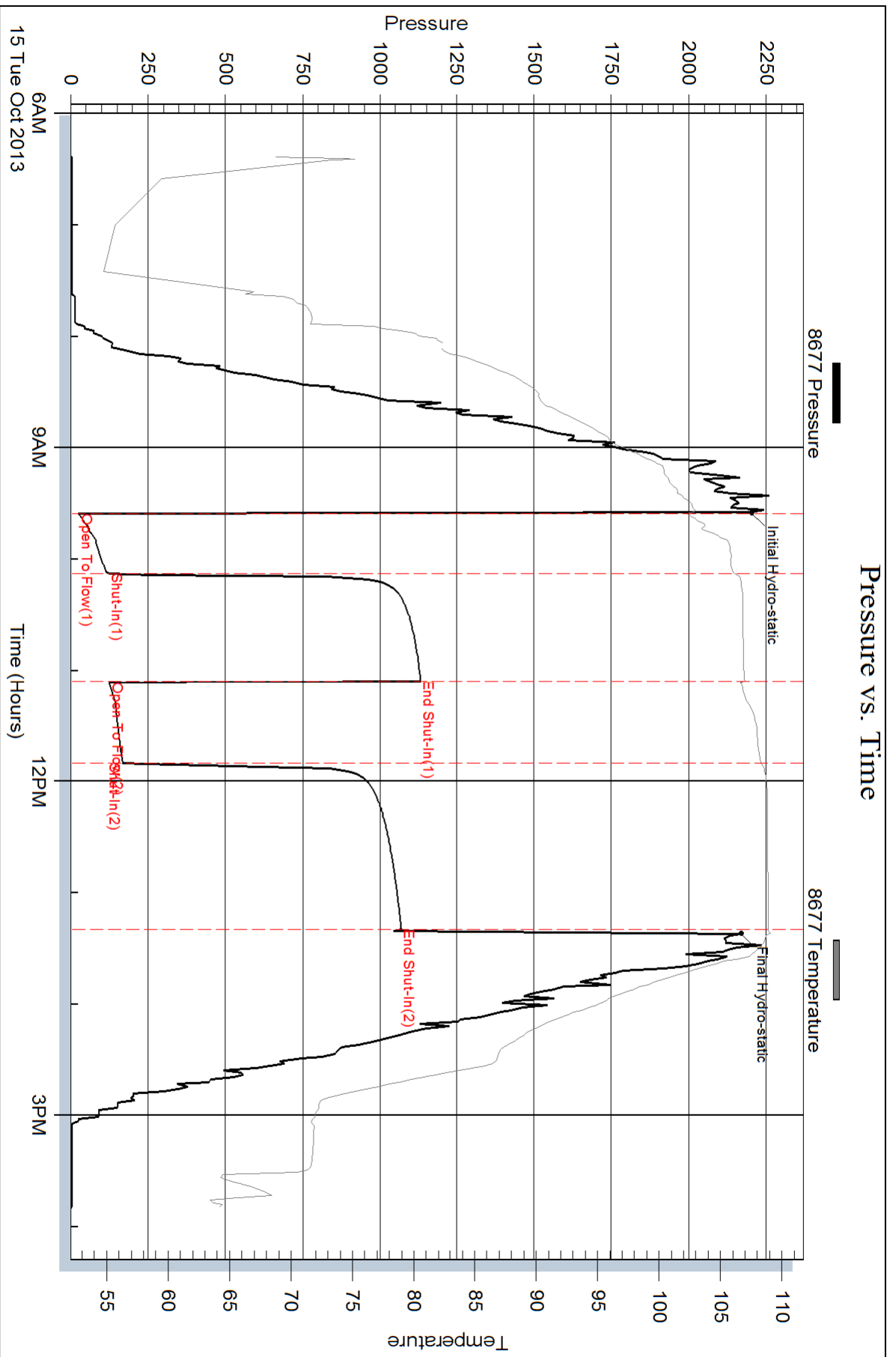
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .395 @ 53F = 23000ppm

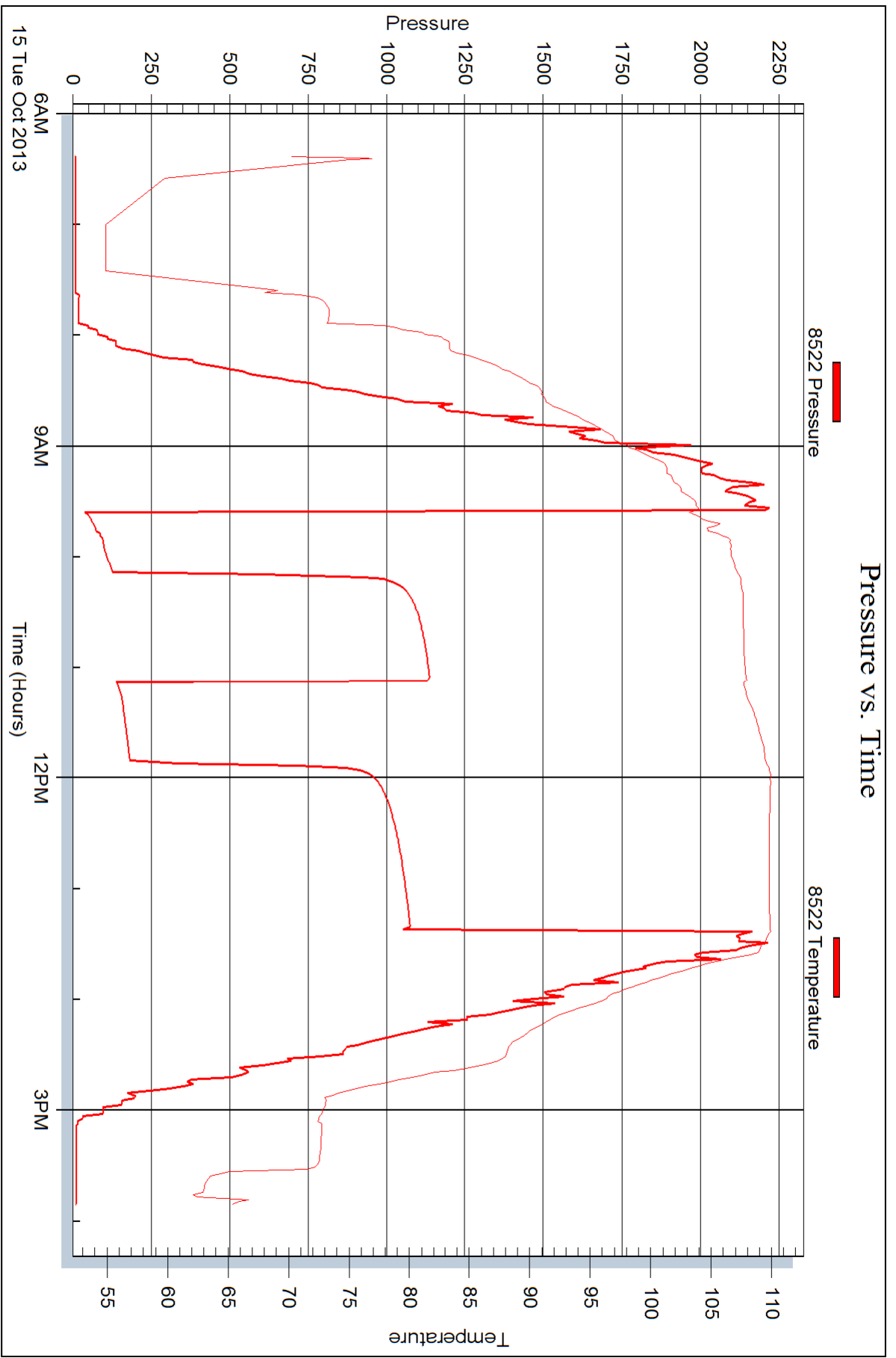


Serial #: 8522

Outside Raymond Oil Company Inc.

Keeton-Holstein #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55518

Printed: 2013.10.18 @ 12:50:54



DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company Inc.**

PO Box 48788
Wichita KS 67202

ATTN: Max Lovely

Keeton-Holstein #1

13 20s 36w Wichita, KS

Start Date: 2013.10.15 @ 23:53:00

End Date: 2013.10.16 @ 09:13:45

Job Ticket #: 55519 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.18 @ 12:49:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55519

DST#: 2

ATTN: Max Lovely

Test Start: 2013.10.15 @ 23:53:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:24:15

Time Test Ended: 09:13:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4546.00 ft (KB) To 4580.00 ft (KB) (TVD)

Total Depth: 4580.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3171.00 ft (KB)

3161.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8677

Inside

Press @ Run Depth: 237.90 psig @ 4547.00 ft (KB)

Start Date: 2013.10.15

End Date:

2013.10.16

Start Time: 23:53:05

End Time:

09:13:45

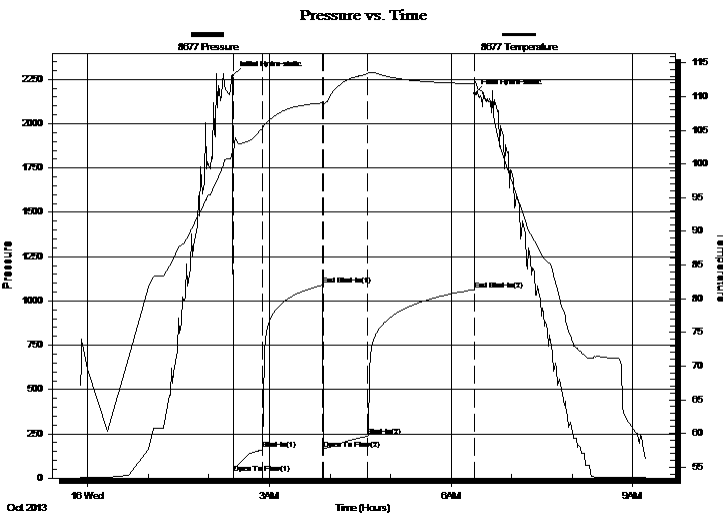
Capacity: 8000.00 psig

Last Calib.: 2013.10.16

Time On Btm: 2013.10.16 @ 02:24:00

Time Off Btm: 2013.10.16 @ 06:23:30

TEST COMMENT: IF: BOB @ 18 min.
IS: No return.
FF: BOB @ 25 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2268.87	102.11	Initial Hydro-static
1	29.12	101.36	Open To Flow (1)
30	160.85	105.37	Shut-In(1)
89	1089.45	109.04	End Shut-In(1)
90	164.14	108.62	Open To Flow (2)
134	237.90	113.42	Shut-In(2)
239	1059.99	111.88	End Shut-In(2)
240	2169.79	112.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
450.00	mcw 20m 80w (oil spots)	4.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55519

DST#: 2

ATTN: Max Lovely

Test Start: 2013.10.15 @ 23:53:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:24:15

Time Test Ended: 09:13:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4546.00 ft (KB) To 4580.00 ft (KB) (TVD)

Reference Elevations: 3171.00 ft (KB)

Total Depth: 4580.00 ft (KB) (TVD)

3161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8522 Outside

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

Capacity: 8000.00 psig

Start Date: 2013.10.15

End Date: 2013.10.16

Last Calib.: 2013.10.16

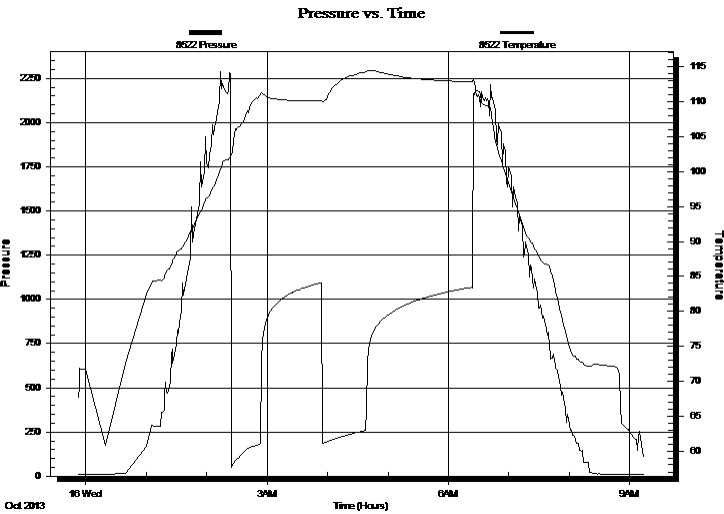
Start Time: 23:53:05

End Time: 09:15:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 18 min.
IS: No return.
FF: BOB @ 25 min.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
450.00	mcw 20m 80w (oil spots)	4.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55519

DST#: 2

ATTN: Max Lovely

Test Start: 2013.10.15 @ 23:53:00

Tool Information

Drill Pipe:	Length: 4291.00 ft	Diameter: 3.80 inches	Volume: 60.19 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 61.41 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4546.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4520.00	
Shut In Tool	5.00			4525.00	
Hydraulic tool	5.00			4530.00	
Jars	5.00			4535.00	
Safety Joint	2.00			4537.00	
Packer	5.00			4542.00	27.00 Bottom Of Top Packer
Packer	4.00			4546.00	
Stubb	1.00			4547.00	
Recorder	0.00	8677	Inside	4547.00	
Recorder	0.00	8522	Outside	4547.00	
Perforations	30.00			4577.00	
Bullnose	3.00			4580.00	34.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55519

DST#: 2

ATTN: Max Lovely

Test Start: 2013.10.15 @ 23:53:00

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:

92000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	mcw 20m 80w (oil spots)	4.053

Total Length: 450.00 ft Total Volume: 4.053 bbl

Num Fluid Samples: 0

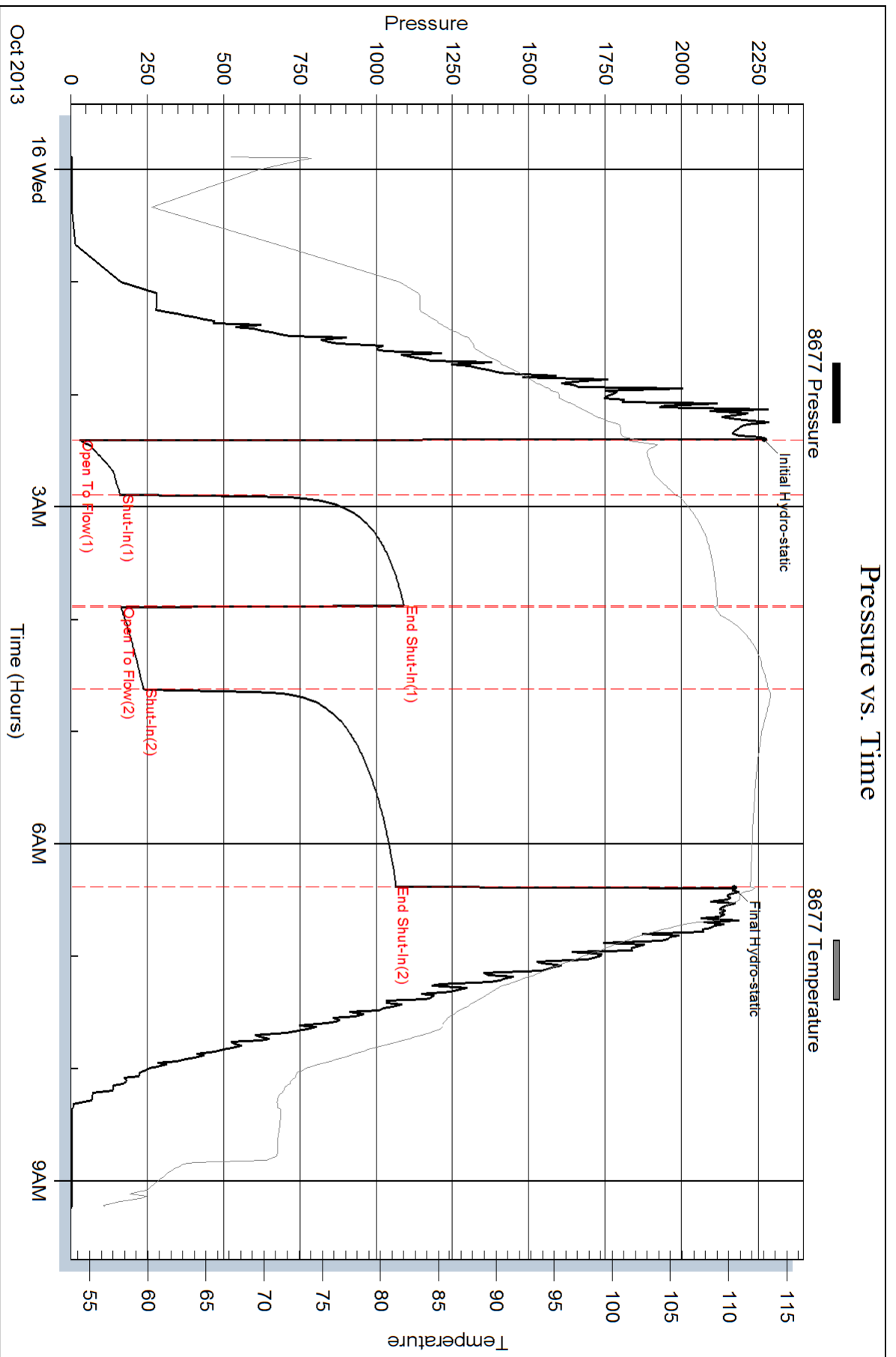
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .125 @ 45F = 92,000ppm

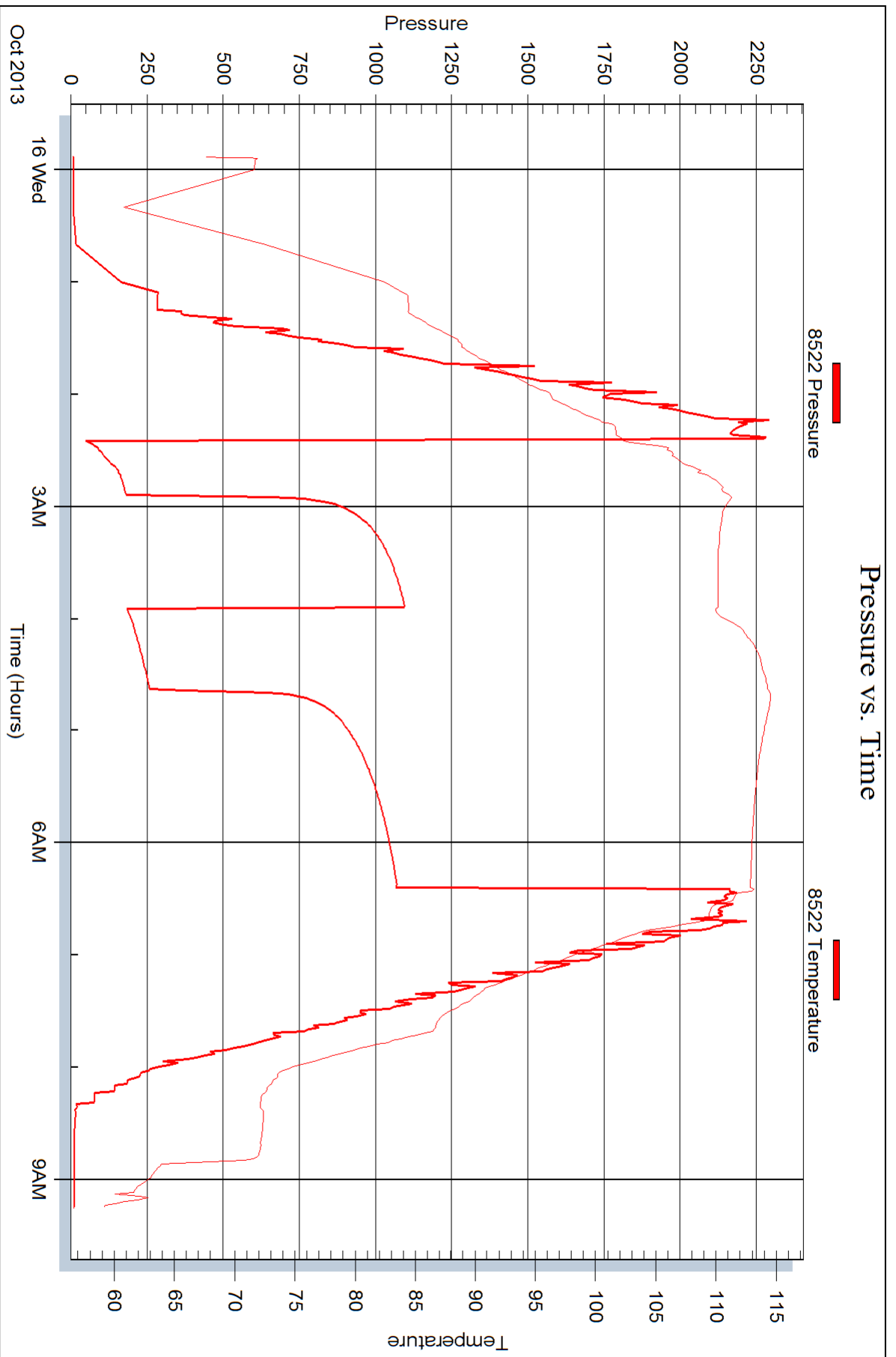


Serial #: 8522

Outside Raymond Oil Company Inc.

Keeton-Holstein #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55519

Printed: 2013.10.18 @ 12:49:43



DRILL STEM TEST REPORT

Prepared For: **Raymond Oil Company Inc.**

PO Box 48788
Wichita KS 67202

ATTN: Max Lovely

Keeton-Holstein #1

13 20s 36w Wichita, KS

Start Date: 2013.10.16 @ 17:19:00

End Date: 2013.10.17 @ 00:25:45

Job Ticket #: 55520 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.10.18 @ 12:48:00

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

Keeton-Holstein #1

DST # 3

Myric Station

2013.10.16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55520

DST#: 3

ATTN: Max Lovely

Test Start: 2013.10.16 @ 17:19:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:08:30

Time Test Ended: 00:25:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4582.00 ft (KB) To 4592.00 ft (KB) (TVD)

Reference Elevations: 3171.00 ft (KB)

Total Depth: 4592.00 ft (KB) (TVD)

3161.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8677 Inside

Press @ Run Depth: 20.12 psig @ 4583.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.16

End Date:

2013.10.17

Last Calib.: 2013.10.17

Start Time: 17:19:05

End Time:

00:25:44

Time On Btm: 2013.10.16 @ 20:08:15

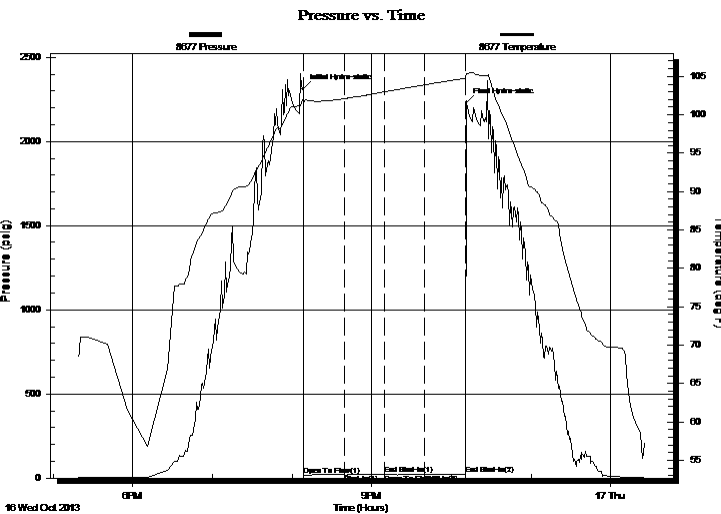
Time Off Btm: 2013.10.16 @ 22:11:15

TEST COMMENT: IF: Surface blow, died @ 15 min.

IS: No return.

FF: No blow, Flushed tool.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2312.81	102.11	Initial Hydro-static
1	17.54	101.41	Open To Flow (1)
31	19.94	102.11	Shut-In(1)
61	23.15	102.99	End Shut-In(1)
62	20.69	102.99	Open To Flow (2)
91	20.12	103.90	Shut-In(2)
122	23.20	104.76	End Shut-In(2)
123	2231.38	105.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.50	mud 100m	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55520

DST#: 3

ATTN: Max Lovely

Test Start: 2013.10.16 @ 17:19:00

Tool Information

Drill Pipe:	Length: 4320.00 ft	Diameter: 3.80 inches	Volume: 60.60 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.82 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4582.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4556.00	
Shut In Tool	5.00			4561.00	
Hydraulic tool	5.00			4566.00	
Jars	5.00			4571.00	
Safety Joint	2.00			4573.00	
Packer	5.00			4578.00	27.00 Bottom Of Top Packer
Packer	4.00			4582.00	
Stubb	1.00			4583.00	
Recorder	0.00	8677	Inside	4583.00	
Recorder	0.00	8522	Outside	4583.00	
Perforations	6.00			4589.00	
Bullnose	3.00			4592.00	10.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Raymond Oil Company Inc.

13 20s 36w Wichita, KS

PO Box 48788
Wichita KS 67202

Keeton-Holstein #1

Job Ticket: 55520

DST#: 3

ATTN: Max Lovely

Test Start: 2013.10.16 @ 17:19:00

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.50	mud 100m	0.002

Total Length: 0.50 ft Total Volume: 0.002 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

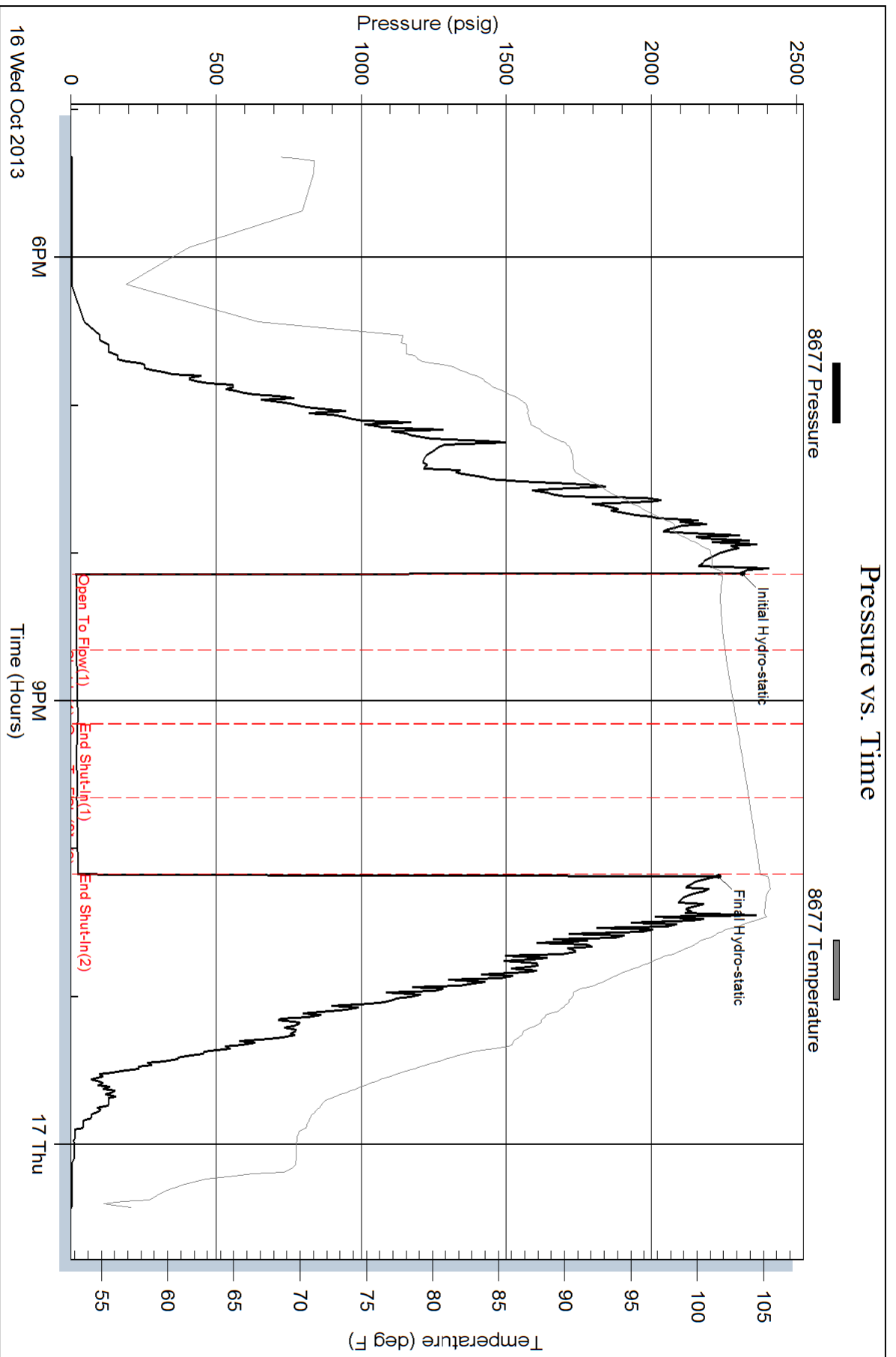
Serial #: 8677

Inside

Raymond Oil Company Inc.

Keeton-Holstein #1

DST Test Number: 3

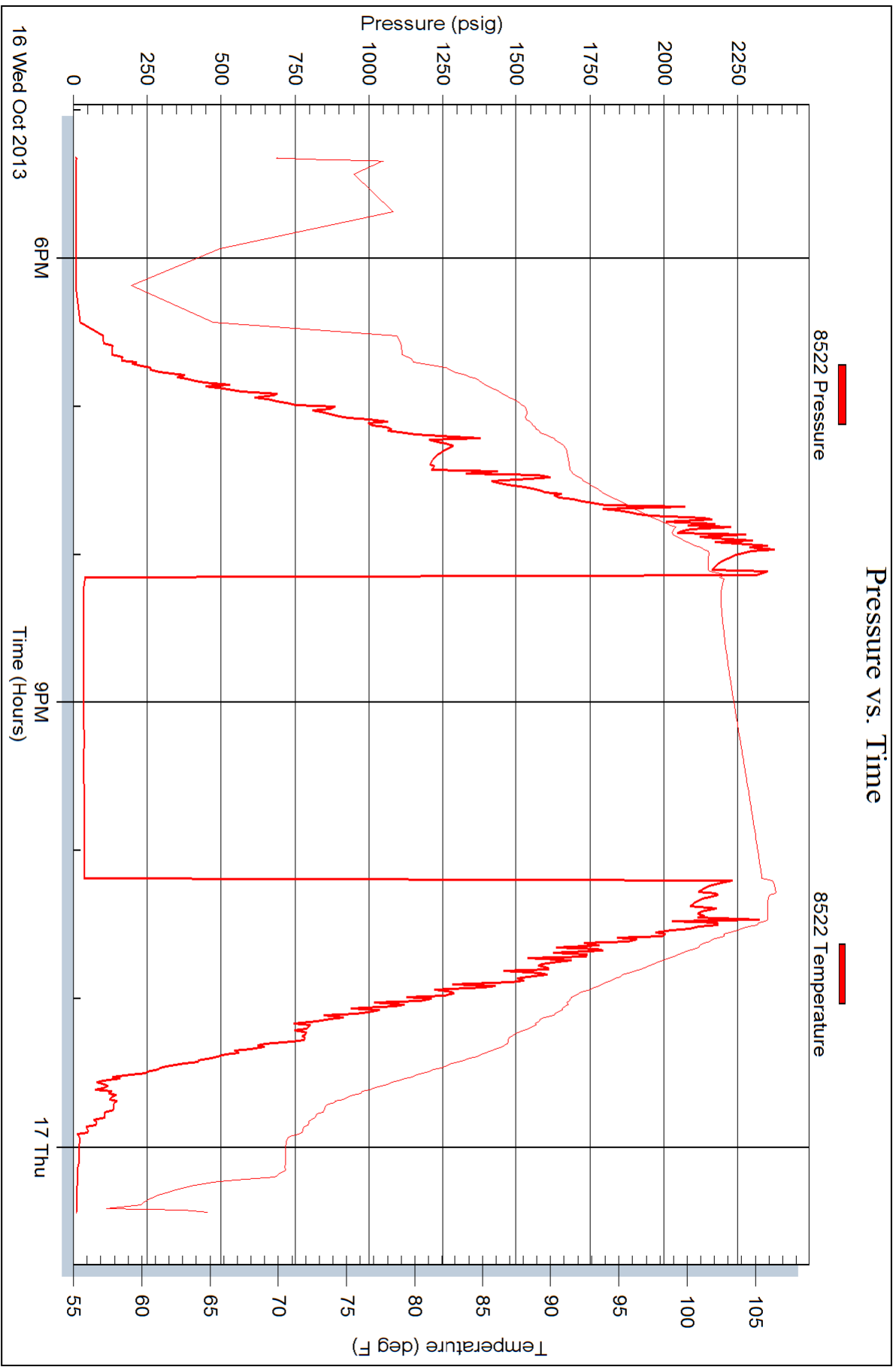


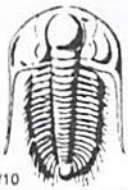
Serial #: 8522

Outside Raymond Oil Company Inc.

Keeton-Holstein #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55518**

Well Name & No. Keeton Holstein #1 Test No. 1 Date 10/15/13
 Company Raymond Oil Co, Inc Elevation 3171 KB 3161 GL
 Address P.O. Box 45760 Wichita, ks 67201
 Co. Rep / Geo. Max Lovely Rig H12 #4
 Location: Sec. 13 Twp. 20s Rge. 36w Co. Wichita State Ks

Interval Tested 4466 4548 Zone Tested Marmaton
 Anchor Length 82 Drill Pipe Run 4198 Mud Wt. 9.1
 Top Packer Depth 4461 Drill Collars Run 248 Vis 65
 Bottom Packer Depth 4466 Wt. Pipe Run 0 WL 6.0
 Total Depth 4548 Chlorides 5500 ppm System LCM 2#

Blow Description IF: 7" blow.
ISI: No return.
FF: 7" blow
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>310</u>	<u>MCW</u>		<u>60</u>	<u>40</u>	
	<u>oil specs in tool</u>				

Rec Total 310 BHT 109 Gravity - API RW .395 @ 53 °F Chlorides 23,000 ppm

(A) Initial Hydrostatic <u>2202</u>	<input checked="" type="checkbox"/> Test <u>2202</u> 1250	T-On Location <u>0500</u>
(B) First Initial Flow <u>35</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0623</u>
(C) First Final Flow <u>123</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0935</u>
(D) Initial Shut-In <u>1131</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1320</u>
(E) Second Initial Flow <u>124</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1552</u>
(F) Second Final Flow <u>168</u>	<input checked="" type="checkbox"/> Mileage <u>97.65</u>	Comments
(G) Final Shut-In <u>1068</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2168</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1822.65</u>
Final Shut-In <u>90</u>	<input checked="" type="checkbox"/> Accessibility <u>150</u>	MP/DST Disc't
	Sub Total <u>1822.65</u>	

Approved By [Signature]

Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55519**

4/10

Well Name & No. Keeten - Holstern #1 Test No. 2 Date 10/16/13
 Company Raymond Oil Co, Inc Elevation 3171 KB 3161 GL
 Address P.O. Box 48788 Wichita, KS 67201
 Co. Rep / Geo. Max Lovely Rig 112 #4
 Location: Sec. 13 Twp. 20s Rge. 36 W Co. Wichita State Ks

Interval Tested 4546 4580 Zone Tested Pawnee
 Anchor Length 34 Drill Pipe Run 4291 Mud Wt. 9.1
 Top Packer Depth 4541 Drill Collars Run 248 Vis 52
 Bottom Packer Depth 4546 Wt. Pipe Run 0 WL 6.0
 Total Depth 4580 Chlorides 5500 ppm System LCM 2#

Blow Description JT: BOD @ 18 min
IST: No return
FF: BOB @ 25 min
FSI: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>450</u>	<u>mcw</u>			<u>80</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

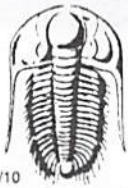
Rec Total 450 BHT 112 Gravity — API RW 125 @ 45 °F Chlorides 92,000 ppm

(A) Initial Hydrostatic 2269 Test 1250 T-On Location 2300
 (B) First Initial Flow 29 Jars 250 T-Started 2552
 (C) First Final Flow 161 Safety Joint 75 T-Open 0224
 (D) Initial Shut-In 1089 Circ Sub 14 T-Pulled 0609
 (E) Second Initial Flow 164 Hourly Standby T-Out 0915
 (F) Second Final Flow 238 Mileage 97.65
 (G) Final Shut-In 1060 Sampler
 (H) Final Hydrostatic 2170 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility 150
 Ruined Shale Packer
 Ruined Packer
 Extra Copies

Initial Open 30
 Initial Shut-In 60
 Final Flow 45
 Final Shut-In 90
 Sub Total 0
 Total 1822.65
 Sub Total 1822.65
 MP/DST Disc't

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55520

Well Name & No. Keeton Holstern #1 Test No. 3 Date 10/16/13
 Company Raymond Oil Co, Inc Elevation 5171 KB 3161 GL
 Address P.O. Box 48788 Wichita, KS 67201
 Co. Rep / Geo. Max Lovely Rig H7 #4
 Location: Sec. 13 Twp. 20s Rge. 36W Co. Wichita State Ks

Interval Tested 4582-4592 Zone Tested Myric Station
 Anchor Length 10 Drill Pipe Run 4320 Mud Wt. 9.4
 Top Packer Depth 4577 Drill Collars Run 248 Vis 65
 Bottom Packer Depth 4582 Wt. Pipe Run Ø WL 8.0
 Total Depth 4592 Chlorides 6500 ppm System LCM 2#

Blow Description IF: Surface blow, dried @ 15 min.
ISJ: No return.
FF: No blow, flushed tool
FSJ: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>6"</u>	<u>inches</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 0.5 BHT 105 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic 2313 Test 1250 T-On Location 1630
 (B) First Initial Flow 18 Jars — T-Started 1719
 (C) First Final Flow 20 Safety Joint — T-Open 2009
 (D) Initial Shut-In 23 Circ Sub NC T-Pulled 2209
 (E) Second Initial Flow 21 Hourly Standby — T-Out 0027 10/17
 (F) Second Final Flow 20 Mileage 63 RT 195.30 Comments Picked up tool 10:00 am
 (G) Final Shut-In 23 Sampler — 10/18
 (H) Final Hydrostatic 2231 Straddle — Ruined Shale Packer —
 Shale Packer 250 Ruined Packer —
 Initial Open 30 Extra Packer — Extra Copies —
 Initial Shut-In 30 Extra Recorder — Sub Total 800
 Final Flow 30 Day Standby 1d 9.75h Total 2645.30
 Final Shut-In 30 Accessibility 150 MP/DST Disc't —
 Sub Total 1845.30

Approved By _____ Our Representative [Signature] #69

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Max R. Lovely

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	Raymond Oil Co.	ELEVATIONS	
LEASE	Keeton Holstein #1	KB	3171
FIELD	Wildcat	DF	
LOCATION	NW NW NE NW	GL	3160
SEC	13	Measurements Are All From KB	
TWSP.	20		
RGE	36W		
COUNTY	Wichita	STATE KS	
CONTRACTOR	H2 #4	CASTING SURFACE 8 5/8" @ 270'	
SPUD	10-10-2013	PRODUCTION —	
COMP	1-19-2013	ELECTRICAL SURVEYS DUAL IND	
RTD	5070	COMP N/D, MICRO	
LTD	5073		
MUD UP	3450	TYPE MUD Chem	

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SURFACE	STRUCTURAL POSITION		
				A	B	C
Base Anhydrite	2283	2281	890	884		
Stotler	3501	3501	-330	-341		
Heebner	3916	3917	-748	-756		
Lansing	3976	3986	-799	-812		
Stark	4286	4280	-1109	-1127		
Marmaton	4458	4460	-1289	-1294		
Pawnee	4544	4548	-1377	-1384		
Myric	4577	4570	-1399	-1416		
Cherokee	4627	4624	-1453	-1466		
Johnson	4672	4669	-1498	-1510		
Morrow Sh	4800	4799	-1628	-1636		
Mississippi	4918	4920	-1749	-1756		

REFERENCE WELLS FOR STRUCTURE

A **Raymond Alfred Holstein #1 SE SW NE SE 12-20-36W**

B

C

DRLG @ 5020

A A

REMARKS

REMARKS

LEGEND



Artifacts Sandstone Shells Carb sh Limestone Dolomite Chert Deformite

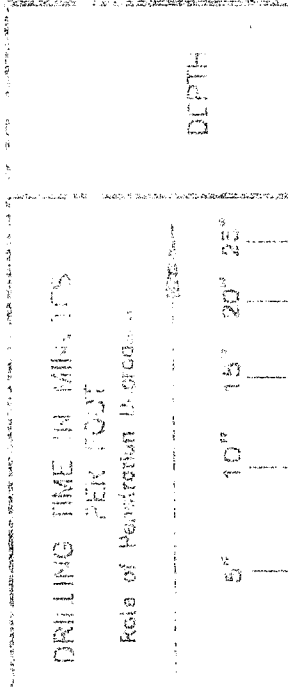


Table with columns: GEOLOGY, SAMPLE DESCRIPTIONS, REMARKS

BASE

105 7710

2283 + 888

2300

3450
DEV 1/4

STOTLER

3500

3501 - 329

BIT TRIP

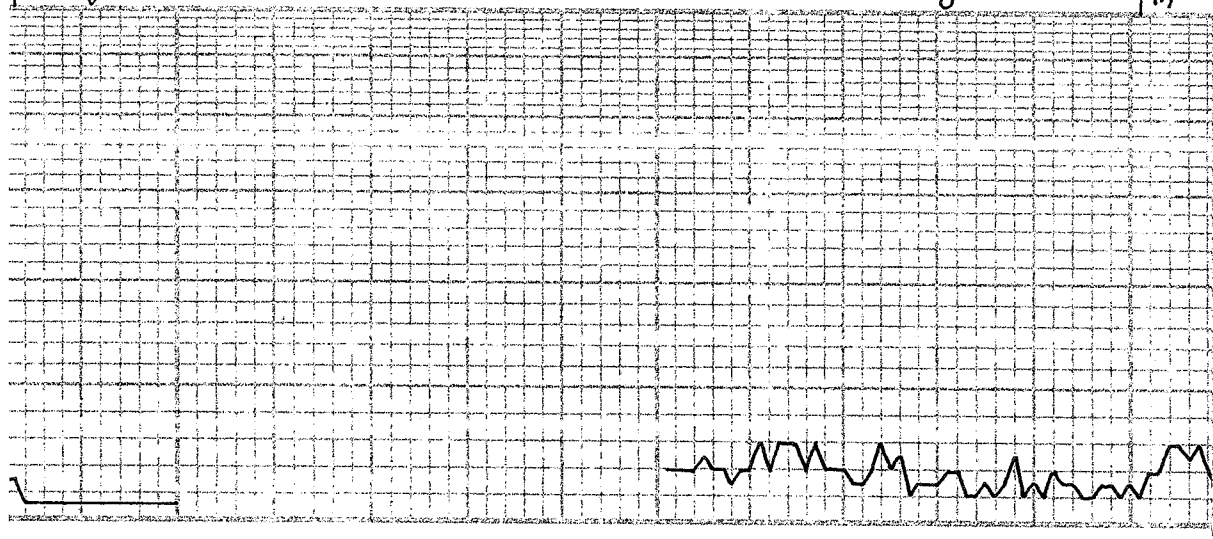
SH, GRY, RED

AA, SL LMY, DK GRY, FXTLN,
HRD, NO VIS

LS, WHT, LT GRY, V DK FOSS W/M,
SOFT, FXTLN, BRILL, NS

SH, DK GRY

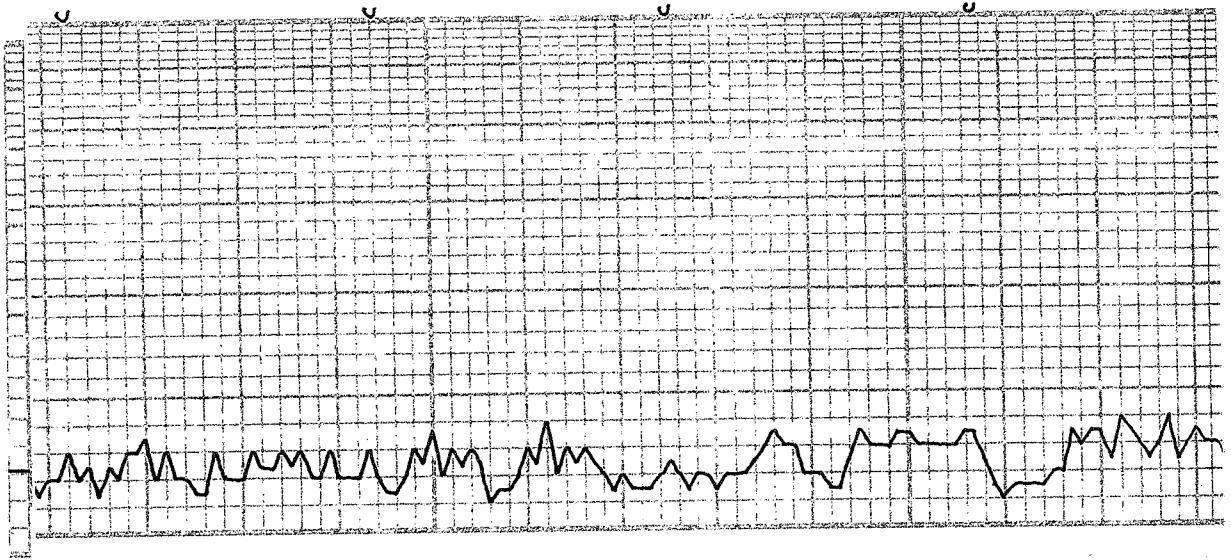
LS, BRN, MXTLN, LT MATRIK,
SL GRNY TXT, HARD, NO VIS, NS

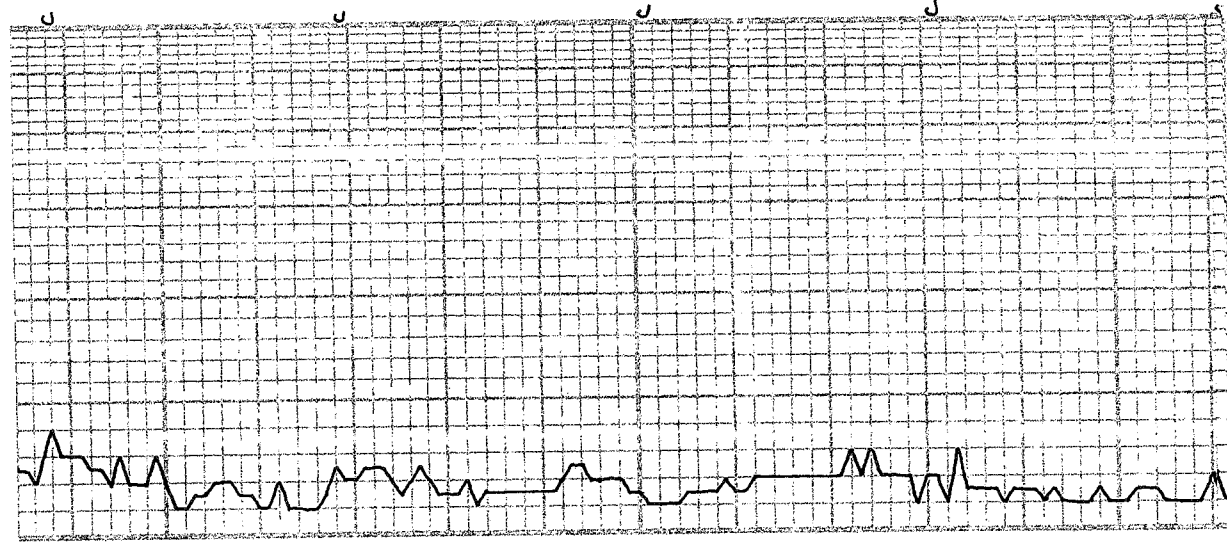


DKLG @ 5020

A	SH, GRY	LS, TAU, F XTLN, M HRD, FOSS, NS
A	SH, GRY	LS, TAU, F XTLN, M HRD, FOSS, NS
A	SH, GRY	LS, BUEE, WHI, F, XTLN, M HRD, FOSS, NS
A	SH, GRY	
A	SH, GRY	LS, WHY, VF XTLN, DNS, HRD, TITE NS
A	SH, GRY	
A	SH, GRY	LS, BUFF, F XTLN, V HRD, ABUN FOSS, SCT REXTLID FRACS, TITE NS
A	SH, GRY	LS, DK GRY, F XTLN, DNS, HRD, V FEW FOSS, NS
A	SH, GRY, SLTY	
A	SH, GRY	LS, GRY, V XTLN, F M HRD, PLS V HRD, FEW FOSS, TITE NS

3600

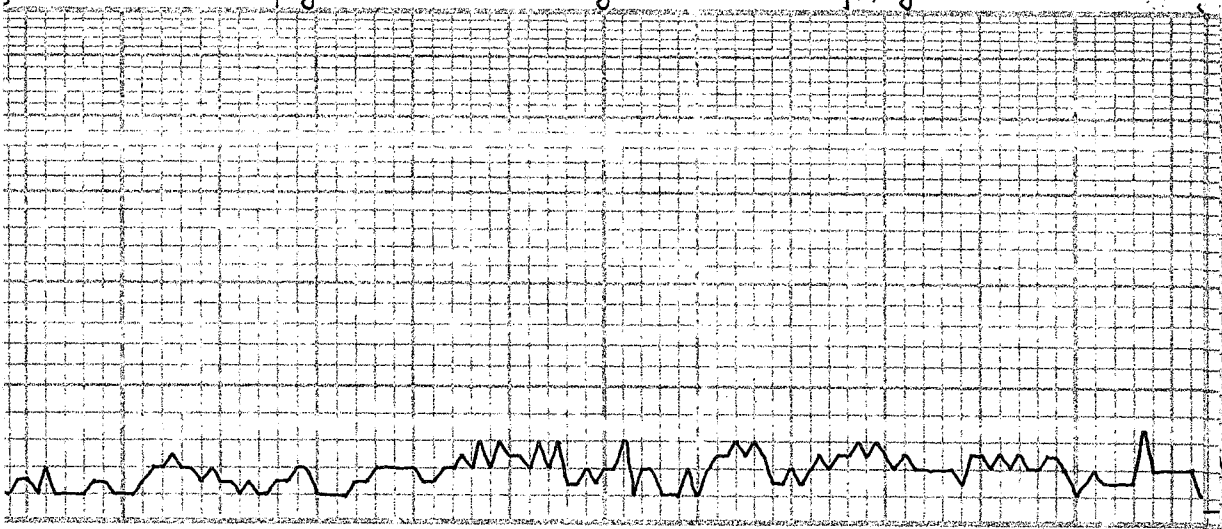




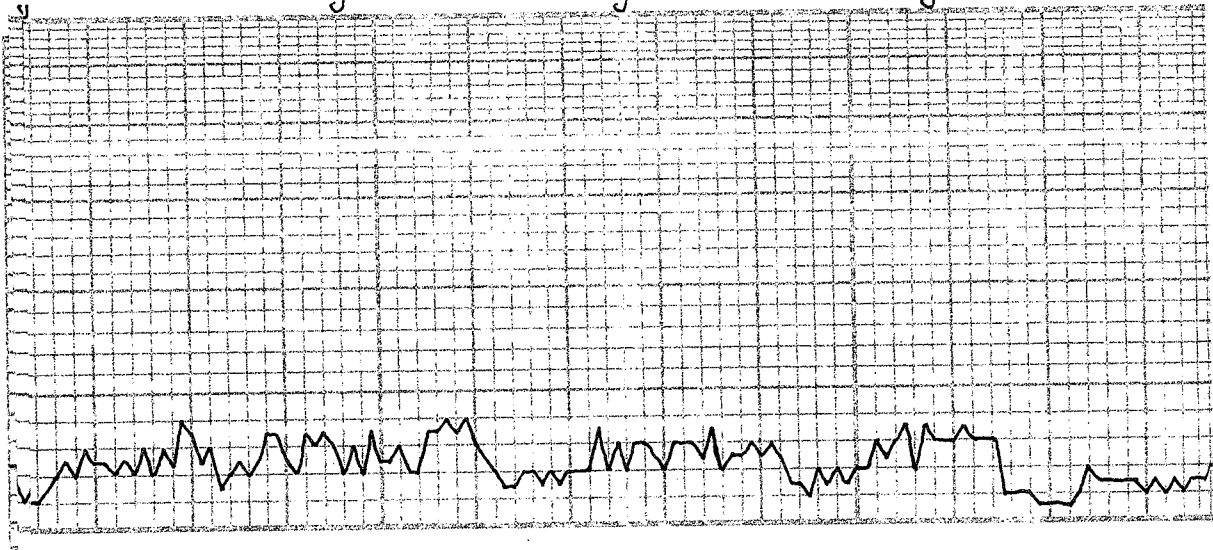
3700

SLT STN. GRN, GRY	MS. TAN, BRN/GRY, VF XTLN, HRD, TITE, MS	LS. CRM, F XTLN, HRD, SCT FOSS CASTS, NO VIS. MS	CHT, WHT/OPAK, WEA, MS	SH, GRY, ULMY	LS. CRM, BUFF, F XTLN, HRD, FOSS, MS	LS. GRY, TAN, A.A.
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7:AM 10-13-13
DRLG@3699

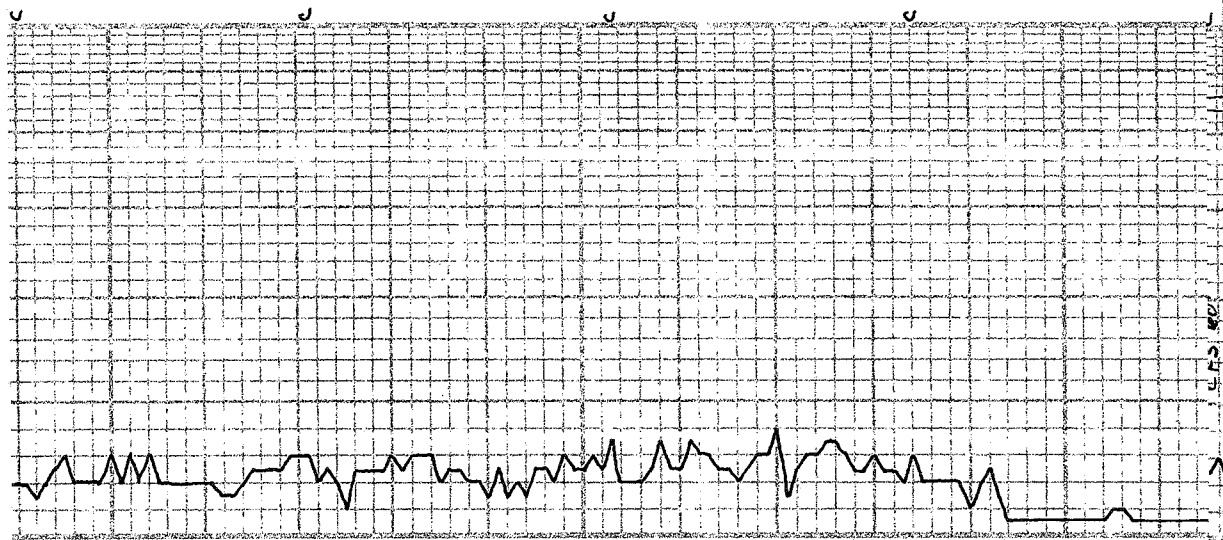


<p>3900</p> <p>HEEBNER c 3916 - 745</p>	<p>FOSS + FRAGS, P XTLW, MS</p> <p>hs. AA.</p> <p>SH, BLK, HRD</p> <p>LS, WHT, FXTLN, DNS, HRD, TITE MS</p> <p>SH, SLTY, GRY, SCT CLK</p>
<p>LANSING 3976 - 805</p>	<p>LS, CRM, V FXTLN CMT'D, HRD, ABUN DOL + FOSS, W CMT'D, M HRD, NO APP'S MS</p> <p>SLTSTN, GRY</p>
<p>4000</p>	<p>LS, WHT, CRM, FXTLN, HRD, ABUN FOSS + FRAGS, VSL INT FOSS MS</p> <p>SH, BLK</p> <p>LS, WHT, FXTLN, M HRD, ALGAL F FOSS FRAGS, PCMT'D, MS LS, DUFF, FXTLN, V DDM, V G BDM</p>



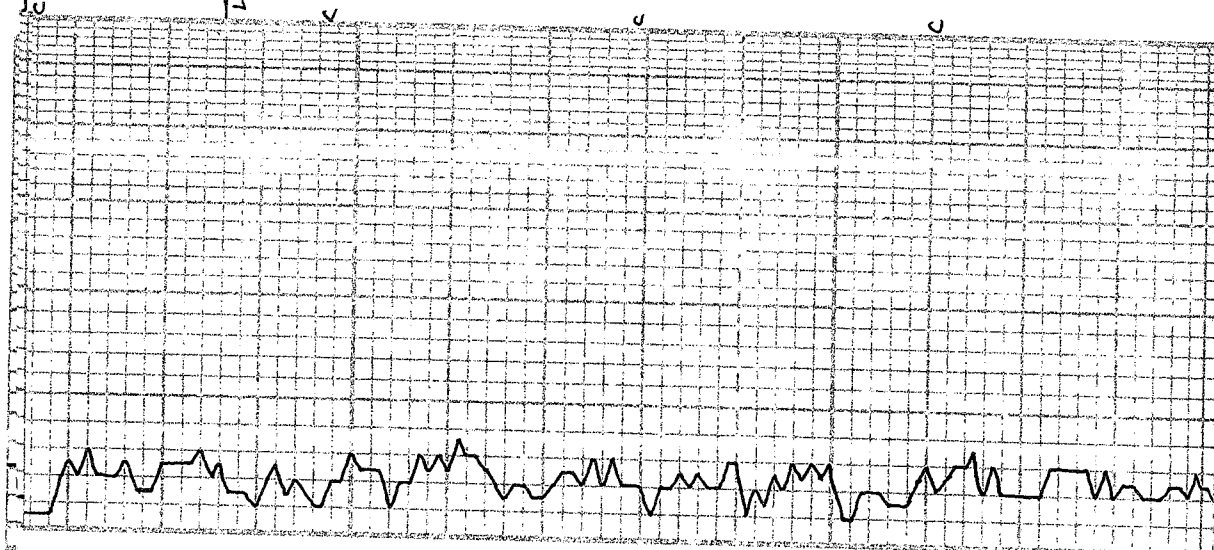
4100

LS, WHI, EXTW, SOFT, CHLKY NS	LS, WHI, VFXTW, DMS, HRD, FEW SCT VUG Ø, MOSTLY TITE, NS	LS, TAN, VE, XTW, DMS, HRD, TITE, NS	SH, BLK, DK GRY	LS, WHI, FXTW, SL WEA TXT, HRD, G Ø, NS	LS, WHI, CRM, VFXTW, DMS, M HRD NO VIS Ø, NS	LS, BU, EE, VE, XTW, HRD, ABUN, DOMP, NS	C. HALK
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4200

LS, BUFF, VF XTLN, CMTID, BOOLS, HRD, DNS, TITE, VW, CMTID, DOLS, NS	LS, LT GRAY, VF XTLN, DNS, HRD, SCT LG XTL CLUSTERS, VN, NS	SH. GRAY LS. WHT, VF XTLN, ABUN FOSS, VW, CMTID FOSS, TITE, NS	LS, WHT, LT GRAY, VF XTLN, U DNS, V HRD, CLEAN LS, TITE, NS	SH. GRAY, GRN LS, LT + DK BRN, EXTLN, HRD, V FEW FOSS, NO APP, NS	LS, DIRTY WHT, EXTLN, BRILL, SL FOSSLED, ? Q. NS	CHALK	LS, TAN/CRM, F XTLN, EARTH, S. HRD, SL CHALK, P. XTLN	LS, BUFF, F XTLN, V ODM, NG, ODM
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STARK
4286-1115

4300

NS	SH, GRAY	LS, WHT, FXTLN, HRD, ABUN SML FOSS, DNS, TITE, NS	LS, A.A.	LS, WHT, FXTLN, SCT OOMP, HRD, NO VIS PERM, NS	SH, VARI COLOR	LS, TAN, VFXTLN, DNS, HRD, FEW FOSS, TITE, NS	LS, WHT, FXTLN, DNS, HRD, SCT LG FOSS CASTS, SL REXTLD P, TITE NS	SH, VARI COLOR	LS, BRN, VFXTLN, V DNS, V HRD, V CLEAN LS, TITE, NS
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7:AM 10-14-13
DRLG @ 4354'

MUD GREEN

▲
▲
▲
▲

CHT, TAN, WHT-YOOL, FRESH, NS

LS, CRM, LGRY, VEXTLN, DMS, HRD, TITE, NS

A.A.

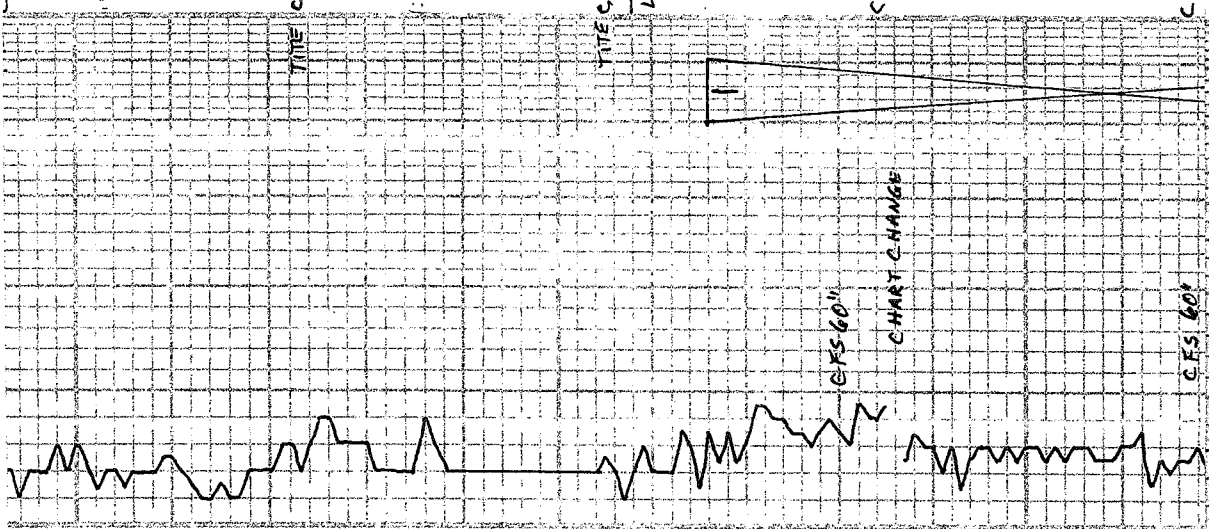
SAMPLES TRASHY

LS, WHT, BUFF, FXTLN, SCT FOSS, BRITL, HRD, F-G "FRAC" NS, SPTY BRN STNG, NO ODOR

LS, BUFF, BRN, VFXTLN, DMS, HRD, TITE, NS

LS, BUFF, CRM, VFXTLN, CMT'D ODS, FFOSS, TITE, NS

LS, TAN, CRM, F → MXTLN, S → M HRD, POS GRMY W/LT BRN STNG, VG XTLN Ø, NO ODOR, NS



4400

4500

VIS 56 WT 9.5
CHLOR 6,400 LCM 1.5
FILT 76

VIS 53
WT 9.4
LCM 1

4463' - SHORT TRIP
TRIPPED OUT - PLUGGED BIT

DST #1 4466-4548
30.60.45-90

IF: 7" ISI: NR
FF: 7" FSI: NR

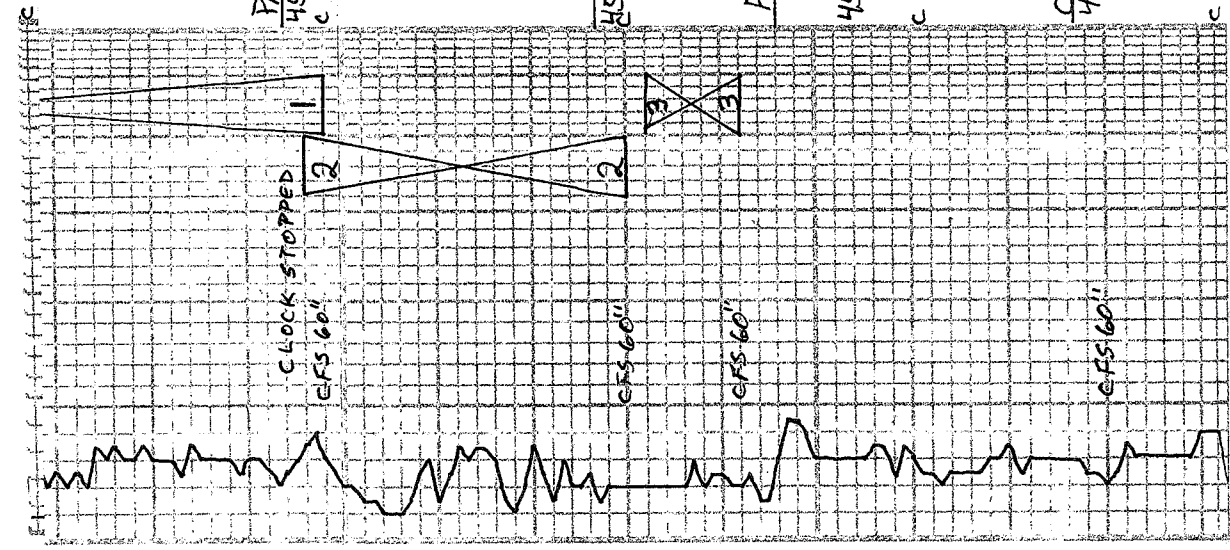
REC: 310' MCW: 60XW
Ø SPKS IN TOOL

CHLOR 23,000

FP: 25-123, 124-168

SIP: 1131-1068

HP: 2202-2168



PAWNEE
4544 - 1373
DEV 3/4"

MYRIC
4577 - 1406

Ft SCOTT
4600
4596 - 1425

CHEROKEE
4627 - 1456

LS, BUFF, F XTLN, CMT, ID, OOLS + FOSS, PCS ALGAL, M HRD, G FOSS + ALGAL P, FLUOR, MO ODOR, NSTO	NS
LS, GRAY, BRN, F, M, XTLN, V, HRD TITE, NS	
LS, DK GRAY, VF XTLN, DMS, HRD, TITE, NS	
SH, BLK, GRV	
SH, GRV	
LS, BRN, WHT, TAN, VF XTLN, HRD, DMS, TITE, NS	
LS, WHT, F XTLN, CMT, ID, OOLS + FRAGS, FEW BRN, FLOOR, FOAM TRAY, F + G, O + G, FILL FOSS, LT TOMED GASSY, G O + G ON BRK	FAB ODOR GASSY
LS, CRM, VF XTLN, HRD, F, CMT, ID, OOLS, SCT OIL FILL OOLS, TRGAS	F + G ODOR
LS, BUFF, VF XTLN, M HRD, DMS, SCT BRN, PPD SHFT STNG, MO FO ON BRK, LT FLUOR STNG	LT ODOR
SH, BLK	
LS, BRN, VF XTLN, DMS, HRD, TITE, NS	
LS, TAN, VF XTLN, M HRD, ABOW OOLS, FOSS, FRAGS, BRECCIA, TITE NS	
SH, BLK	
LS, GRAY, BRN, F, XTLN, DMS, HRD TITE, NS	

STRAP BOARD 4550.62
4548.71
100g 1.91'

7:AM 10-15-13
DST #1 @ 4548'

MUD CHECK
VIS 65 WT 9.1
CHLOR 5.50 LCM 2
FILT 6.0

7:AM 10-16-13
DST #2 @ 4580'

MUD CHECK
VIS 55 WT 9.2
CHLOR 6.50 LCM 2
FILT 8.0

DST #2 4546 - 4580
30.60.45.90
IF: BOB 18 MIN 151:NR
FF: BOB 25 MIN

7:AM 10-17-13
DRLG @ 4638'



GFS 60"

BIT PLUGGING
 JOHNSON
 4672 - 1501
 4700
 ATOKA
 4716 - 1545

LS, CRM, F XTLN, HRD, DMS, FOSS, TITE, NS	LS, DK BRN, F XTLN, HRD, DMS, FOSS, TITE, NS	SH, GRY	LS, DK BRN, V F XTLN, CHTY, CLEANLS DMS, V HRD, IRE XTLN, FRACS NS	LS, DK BRN, TAN, CRM, F XTLN, V HRD, DMS, N Pcs, Pcs V FOSS, NO APP Q, NS	CHT, TAN, BRN, OPAQ, FRESH	LS, BAN, AA.	SH, BLK, GRY, LG SAND GRNS WYN	LS, BRN, V F XTLN, DMS, HRD, TITE, NS	LS, CRM, TAN, BRN, F XTLN, HRD, FEW FOSS, SL BR TL, N Pcs, NS	A. A.	SS, V UNCONSOL, QTZ, CLR, CRM, TAN, M LG GRNS, NO SHO, NO KICKS	SH, BLK SH, GRY	LS, WHT, F XTLN, SOFT, SL CHLKY, NO DOR, ABRN BLK V BRN OSTNG, M HRD, NO FO
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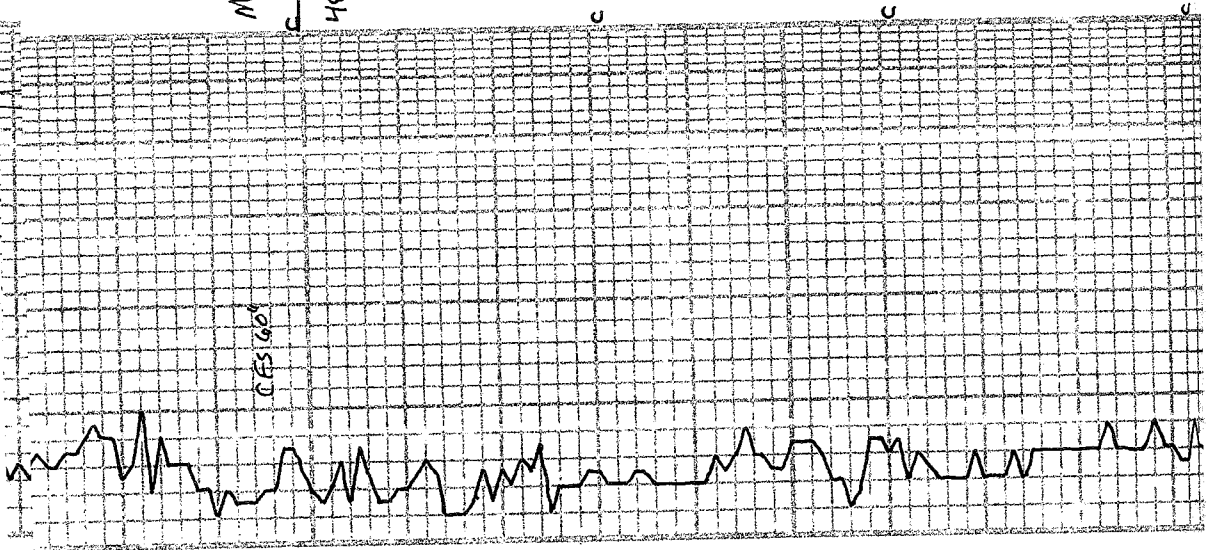
DST #3 4582.4592
 30.30.30.30
 IF: SURF BLD, died 15 min
 FF: dead, flush, dead
 FP: 18-20, 21-20
 SIP: 23-23
 HP: 2314-2231

MUD CHECK
 VLS 55 WT 9.2
 CHDR 10,000 LCMZ
 FILT 11.2

BIT PLUGGING
 ALL DAY.

LS, BRN, VF XTLN, DNS, HRD, TITE, NS	DEMB STNG, NSFO, FIBROUS DPDHL	NO ODOR
LS, CRW, XTLN, SOFT, CHLKY, SCT BRNDP OIL STNG, FIBROUS, NO KICK		
SS, CLR GRNS, SUB ANG → SUB RAND, FAIR SORT, VG Ø, BLK DD OIL FILL Ø NO ODOR NO KICK		
SH, BLK, CARB, SL SANDY		
SH, GRN		
SS, CLR GRNS, LT GRN CMT, SUB RAND → SUB ANG, F SORT, PCMT, D, VG Ø, NS		
SH, GRN, GRY, BLK		
SS, WHT, PALE GRN CMT, CLR GRNS SUB ANG → ANG, F SORT, VG Ø, NS		
SS, GRY CMT, CLR GRNS, V SHLY, V SOFT, NS		
SH, GRY, Pcs SLTY		
SH, GRY, SLTY		
SH, GRY, SLTY		

MORROW SH
 4800
 4800 - 1629



4900

MISS
H918-1747

CFS 600

5000

ST. LOUIS
5006-1835

CFS 600

SS, WHT + GRN CMT'S, F → SLIMED GRNS, W SORT, S → HARD, AND, VC. Ø, NS	LS CRM, BUFF, F XTWN, HRD, SL DMS, NO APP Ø	LS, WHT, CRM, GRNLR, SOFT, PINT GRNLR Ø, NS SL DOLO	AA	LS, GRY, APRICOT, DMS, HRD, TITE, APRICOT - REW F → G Ø, NS	LS, DK, GRY, BAN, UFX IUN, DMS, HRD, TITE, NS	LS, WHT, CRSGRNS, P → F SORT, SL HRD, G Ø, NS SUBGRNS	CNT, PEACH, WHT, TAN, FRESH, DMS	CNT, GRY, WHT	CHT, A-A
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TRASHY SAMPLES → SSS + SH FLOOD ←

7 AM 10-19-13

DRLG @ 5020

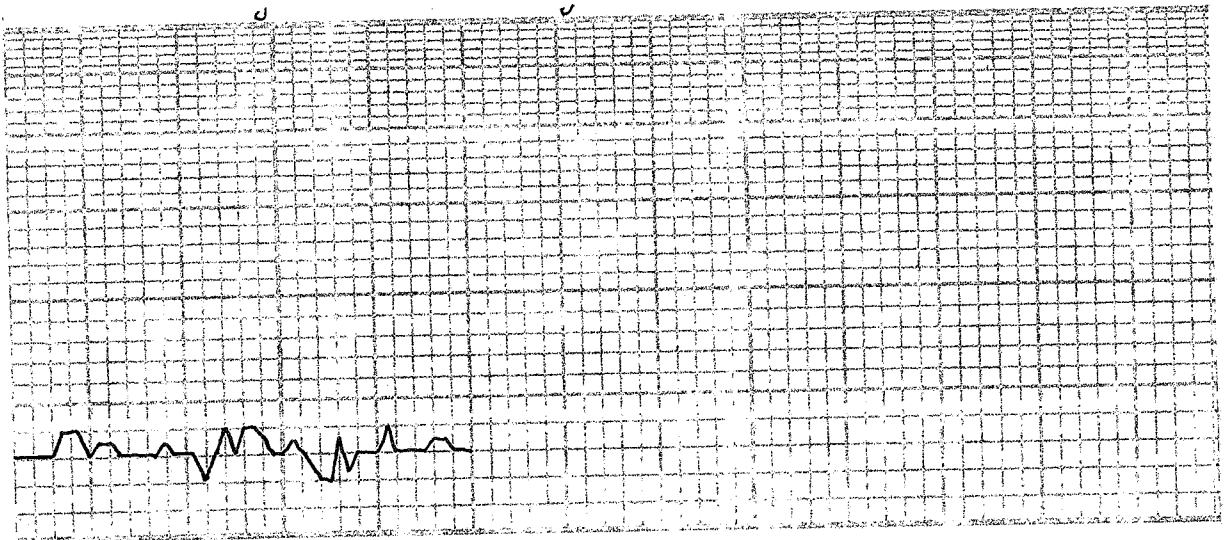
TD 5070'
SHORT TRIP TO 4550'
MUD CHECK
VIS 58 WT 9.4
CHLOR 12,000 LCM Z
F.L.T 8.8

1/2 JETS PLUGGED

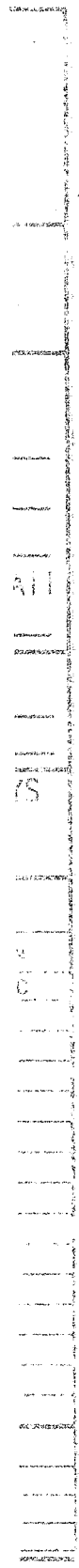
SAMPLES TRASHY

CHT, AA

△ △
△ △
△ △



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
5° 10° 15° 20° 25° DRILLING TIME Minutes/foot	Ratio of Penetration Decreases			
CONTRACTOR _____ LOCATION _____				
LEASE _____ SEC. _____ TWP _____ RNC _____				
ELEVATION _____ RID _____ COUNTY _____ STATE _____				



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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

November 06, 2013

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

Re: ACO1
API 15-203-20239-00-00
Keeton Holstein 1
NW/4 Sec.13-20S-36W
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