



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1169794
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: _____



1169794

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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Form	ACO1 - Well Completion
Operator	Raymond Oil Company, Inc.
Well Name	Hineman 1
Doc ID	1169794

Tops

Name	Top	Datum
B/Anhy	2099	+625
Lans	4022	-1298
STK Sh	4283	-1559
Marm	4391	-1667
CK SH	4559	-1835
CK SD	4620	-1896
Miss	4673	-1949
Total Depth	4780	

DIAMOND TESTING

General Information Report

General Information

Company Name RAYMOND OIL COMPANY, INC.
Contact CLARKE SANDBERG
Well Name HINEMAN #1
Unique Well ID DST #1, LKC 200', 4284-4315
Surface Location SEC 9-19S-27W, LANE CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, LKC 200', 4284-4315
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RAYMOND OIL COMPANY, INC.
Report Date 2013/10/26
Prepared By TIM VENTERS
Qualified By KIM SHOEMAKER

Start Test Date 2013/10/26
Final Test Date 2013/10/26

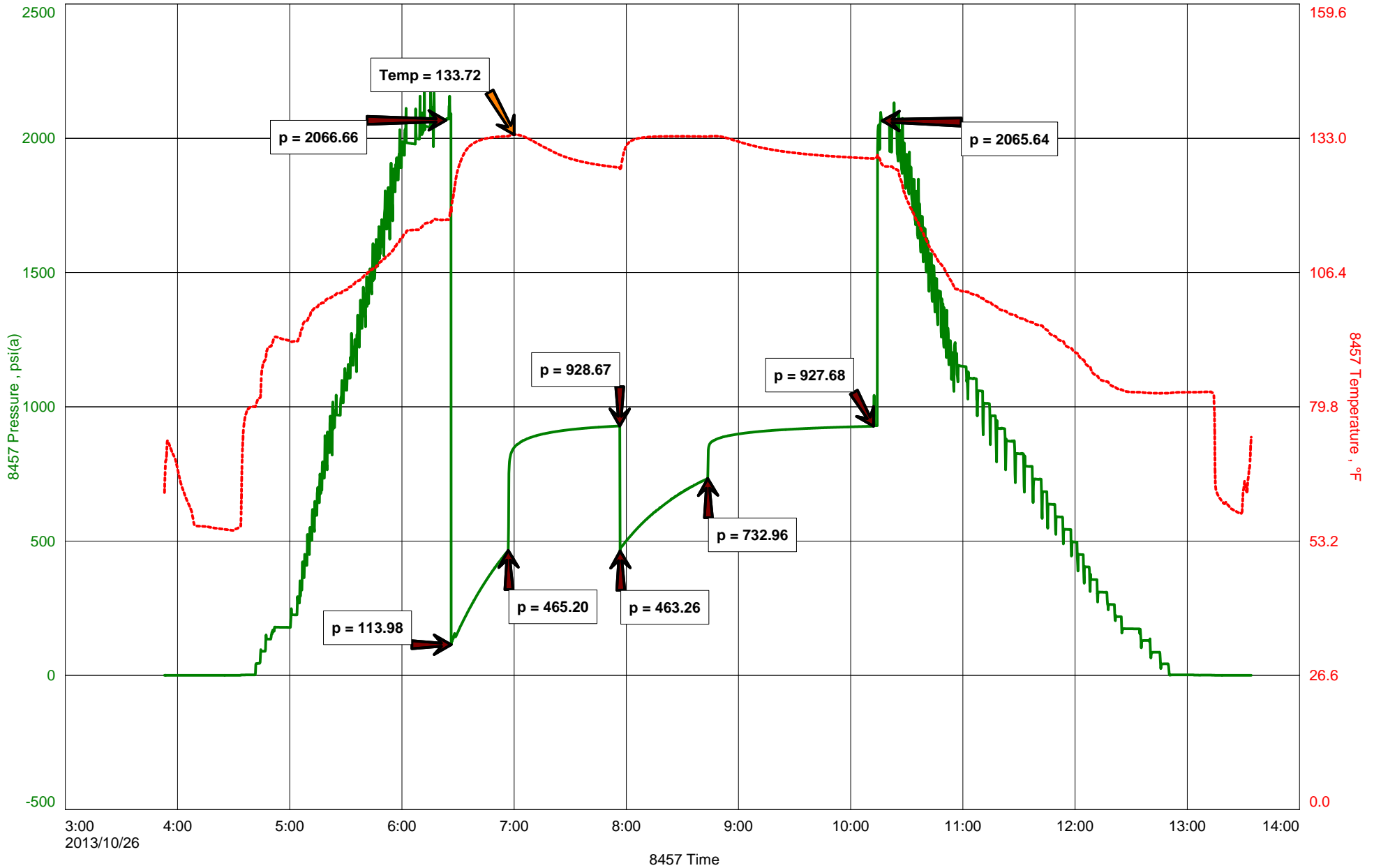
Start Test Time 03:53:00
Final Test Time 13:34:00

Test Recovery:

RECOVERED: 1850' GAS IN PIPE
2125' GO, 14% GAS, 86% OIL, GRAVITY: 37
185' G,MCO, 11% GAS, 57% OIL, 32% MUD
90' G,SMCO, 14% GAS, 78% OIL, 8% MUD
2400' TOTAL FLUID

TOOL SAMPLE: GAS BLEW OUT

HINEMAN #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HINEMAN1DST1

TIME ON: 03:53
TIME OFF: 13:34

Company RAYMOND OIL COMPANY, INC. Lease & Well No. HINEMAN #1
Contractor H2 DRILLING, LLC RIG #1 Charge to RAYMOND OIL COMPANY, INC.
Elevation 2724 KB Formation LKC 200' Effective Pay _____ Ft. Ticket No. T272
Date 10-26-13 Sec. 9 Twp. 19 S Range 27 W County LANE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 4284 ft. to 4315 ft. Total Depth 4315 ft.
Packer Depth 4279 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4284 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4265 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4312 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 48 Drill Collar Length 368 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,800 P.P.M. Drill Pipe Length 3883 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 31 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG 3 INCH BLOW, BUILDING, REACHING BOB 1 MIN. (BOB BB)
2nd Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 3 MIN. (BOB BB)

Recovered 1850 ft. of GAS IN PIPE
Recovered 2125 ft. of GO, 14% GAS, 86% OIL, GRAVITY: 37
Recovered 185 ft. of G,MCO, 11% GAS, 57% OIL, 32% MUD
Recovered 90 ft. of G,SMCO, 14% GAS, 78% OIL, 8% MUD
Recovered 2400 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Remarks: <u>WE SLID ABOUT 3' WHEN SETTING TOOL.</u>	Other Charges
<u>WE GOT GAS TO SURFACE DURING THE FINAL SHUT-IN PERIOD.</u>	Insurance
<u>TOOL SAMPLE: GAS BLEW OUT</u>	Total

Time Set Packer(s) 6:26 AM A.M. P.M. Time Started Off Bottom 10:11 AM A.M. P.M. Maximum Temperature 134 deg.

Initial Hydrostatic Pressure..... (A) 2067 P.S.I.
Initial Flow Period..... Minutes 30 (B) 114 P.S.I. to (C) 465 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 929 P.S.I.
Final Flow Period..... Minutes 45 (E) 463 P.S.I. to (F) 733 P.S.I.
Final Closed In Period..... Minutes 90 (G) 928 P.S.I.
Final Hydrostatic Pressure..... (H) 2066 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

DIAMOND TESTING

General Information Report

General Information

Company Name RAYMOND OIL COMPANY, INC.
Contact CLARKE SANDBERG
Well Name HINEMAN #1
Unique Well ID DST #2, FT. SCOTT, 4530-4590
Surface Location SEC 9-19S-27W, LANE CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, FT. SCOTT, 4530-4590
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RAYMOND OIL COMPANY, INC.
Report Date 2013/10/28
Prepared By TIM VENTERS
Qualified By KIM SHOEMAKER

Start Test Date 2013/10/27
Final Test Date 2013/10/27

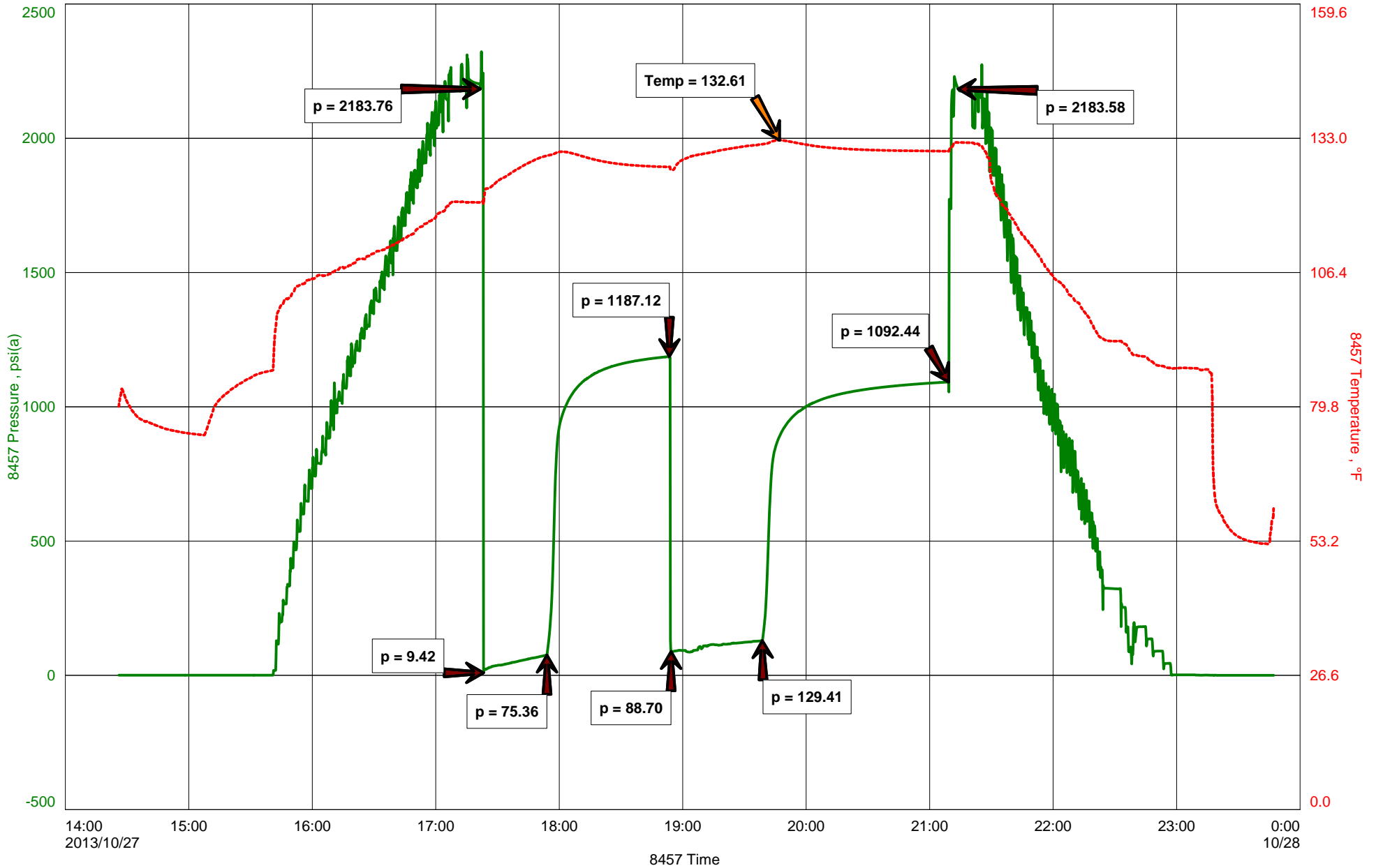
Start Test Time 14:26:00
Final Test Time 23:48:00

Test Recovery:

RECOVERED: 2210' GAS IN PIPE
45' GO, 6% GAS, 94% OIL, GRAVITY: 40
370' G,SMCO, 4% GAS, 88% OIL, 8% MUD
415' TOTAL FLUID

TOOL SAMPLE: 7% GAS, 93% OIL

HINEMAN #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HINEMAN1DST2

TIME ON: 14:26
TIME OFF: 23:48

Company RAYMOND OIL COMPANY, INC. Lease & Well No. HINEMAN #1
Contractor H2 DRILLING, LLC RIG #1 Charge to RAYMOND OIL COMPANY, INC.
Elevation 2724 KB Formation FT. SCOTT Effective Pay _____ Ft. Ticket No. T273
Date 10-27-13 Sec. 9 Twp. 19 S Range 27 W County LANE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 2 Interval Tested from 4530 ft. to 4590 ft. Total Depth 4590 ft.
Packer Depth 4525 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4530 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4511 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4587 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 368 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 5,2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,200 P.P.M. Drill Pipe Length 4129 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 29 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{31' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 3 1/2 MIN. (WS BB)
2nd Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 7 MIN. (NO BB)

Recovered 2210 ft. of GAS IN PIPE
Recovered 45 ft. of GO, 6% GAS, 84% OIL, GRAVITY: 40
Recovered 370 ft. of G,SMCO, 11% GAS, 88% OIL, 8% MUD
Recovered 415 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>7% GAS, 93% OIL</u>	Total

Time Set Packer(s) 5:23 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 9:08 PM ^{A.M.}/_{P.M.} Maximum Temperature 133 deg.

Initial Hydrostatic Pressure..... (A) 2184 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 75 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 1187 P.S.I.
Final Flow Period..... Minutes 45 (E) 89 P.S.I. to (F) 129 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1092 P.S.I.
Final Hydrostatic Pressure..... (H) 2184 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

DIAMOND TESTING

General Information Report

General Information

Company Name RAYMOND OIL COMPANY, INC.
Contact CLARKE SANDBERG
Well Name HINEMAN #1
Unique Well ID DST #3, CHEROKEE SD., 4607-4632
Surface Location SEC 9-19S-27W, LANE CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, CHEROKEE SD., 4607-4632
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator RAYMOND OIL COMPANY, INC.
Report Date 2013/10/28
Prepared By TIM VENTERS
Qualified By KIM SHOEMAKER

Start Test Date 2013/10/28
Final Test Date 2013/10/28

Start Test Time 08:36:00
Final Test Time 15:07:00

Test Recovery:

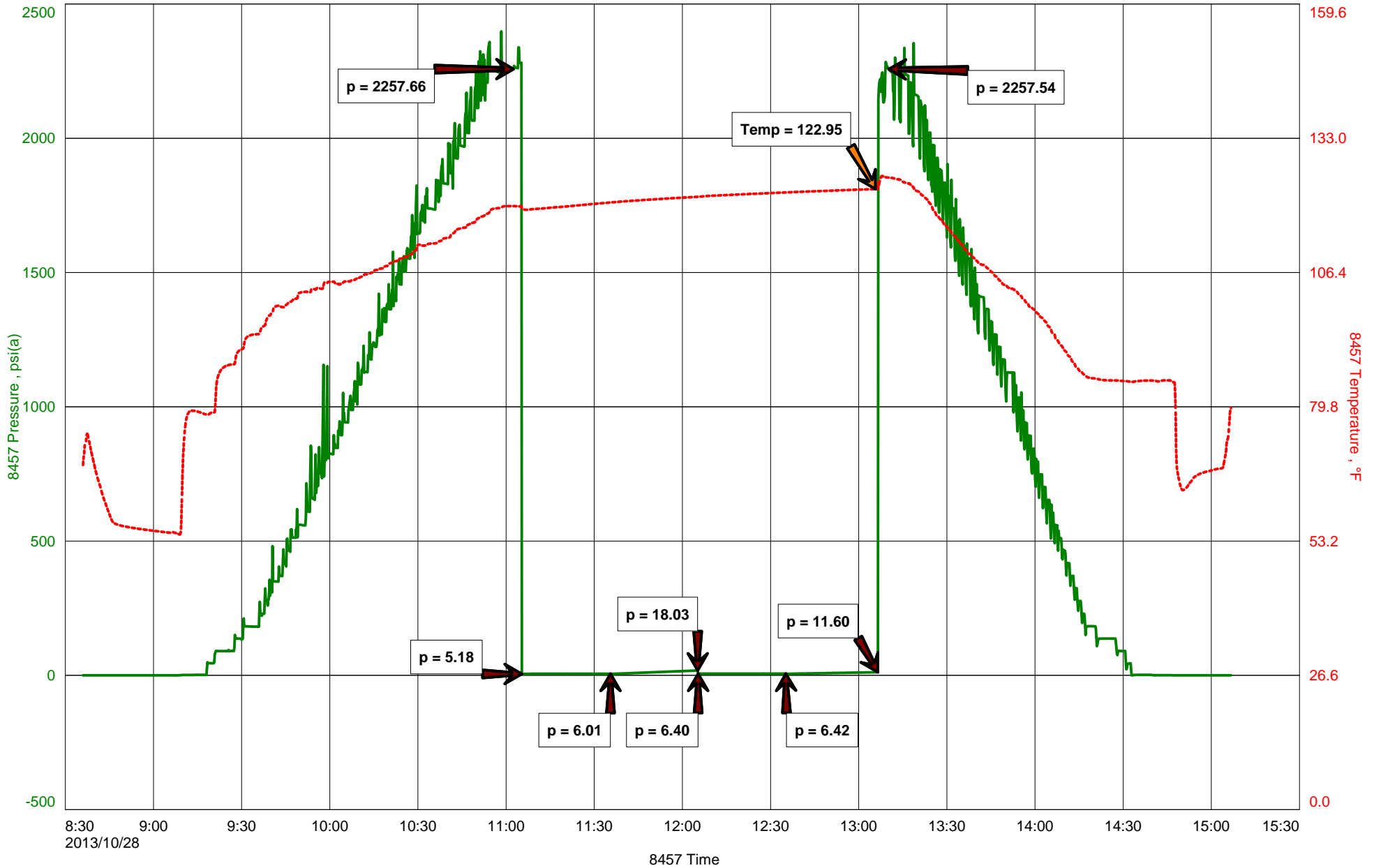
RECOVERED: 2' SOCM, 15% OIL, 85% MUD

TOOL SAMPLE: 4% OIL, 96% MUD

RAYMOND OIL COMPANY, INC.
DST #3, CHEROKEE SD., 4607-4632
Start Test Date: 2013/10/28
Final Test Date: 2013/10/28

HINEMAN #1
Formation: DST #3, CHEROKEE SD., 4607-4632
Pool: WILDCAT
Job Number: T274

HINEMAN #1





DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: HINEMAN1DST3

TIME ON: 08:36
 TIME OFF: 15:07

Company RAYMOND OIL COMPANY, INC. Lease & Well No. HINEMAN #1
 Contractor H2 DRILLING, LLC RIG #1 Charge to RAYMOND OIL COMPANY, INC.
 Elevation 2724 KB Formation CHEROKEE SD. Effective Pay _____ Ft. Ticket No. T274
 Date 10-28-13 Sec. 9 Twp. _____ 19 S Range _____ 27 W County LANE State KANSAS
 Test Approved By KIM SHOEMAKER Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 3 Interval Tested from 4607 ft. to 4632 ft. Total Depth 4632 ft.
 Packer Depth 4602 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4607 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 4588 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
 Bottom Recorder Depth (Outside) 4629 ft. Recorder Number 11030 Cap. 5,025 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 60 Drill Collar Length 368 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 5,6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 2,700 P.P.M. Drill Pipe Length 4206 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 25 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 1/4 INCH. (NO BB)
 2nd Open: VERY WEAK SURFACE BLOW, LASTING ABOUT 3 MIN. (NO BB)

Recovered <u>2</u> ft. of <u>SOCM, 15% OIL, 85% MUD</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>4% OIL, 96% MUD</u>	Total

Time Set Packer(s) 11:05 AM A.M. P.M. Time Started Off Bottom 1:05 PM A.M. P.M. Maximum Temperature 123 deg.
 Initial Hydrostatic Pressure..... (A) 2258 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 5 P.S.I. to (C) 6 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 18 P.S.I.
 Final Flow Period..... Minutes 30 (E) 6 P.S.I. to (F) 6 P.S.I.
 Final Closed In Period..... Minutes 30 (G) 12 P.S.I.
 Final Hydrostatic Pressure..... (H) 2258 P.S.I.

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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 22, 2013

Clarke T. Sandberg
Raymond Oil Company, Inc.
PO BOX 48788
WICHITA, KS 67201-8788

Re: ACO1
API 15-101-22467-00-00
Hineman 1
NW/4 Sec.09-19S-27W
Lane 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,
Clarke T. Sandberg

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY RAYMOND OIL COMPANY, INC.

LEASE # 1 HINEMAN

FIELD WILDCAT

LOCATION 1260' FNL & 2120' FWL

SEC 9 TWPSP 19s RGE 27W

COUNTY LANE STATE KANSAS

CONTRACTOR H2 DRILLING, LLC RIG 1

SPUD 10-21-13 COMP 10-29-13

RTD 4779 LTD 4780

MUD UP 3550 TYPE MUD CHEMICAL

ELEVATIONS

KB 2724

DF _____

GI 2713

Measurements Are All
From 2724 KB

CASING

SURFACE 856' @ 266'

PRODUCTION 5 1/2 @

ELECTRICAL SURVEYS

DUAL IND, DENS-N, MICRO

SAMPLES SAVED FROM _____ 3400 TO 4779

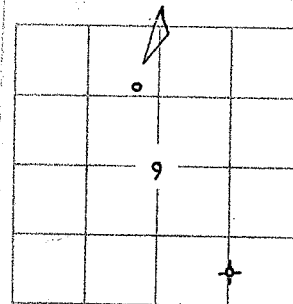
DRILLING TIME KEPT FROM _____ 3400 TO 4779

SAMPLES EXAMINED FROM _____ 3400 TO 4779

GEOLOGICAL SUPERVISION FROM _____ 3800 TO 4779

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2070+659	2073 + 651
B/ANH.	2099+625	2099 + 625
STOTLER	3549-825	3538 - 824
HEEBNER	3983-1259	3981 - 1260
LANSING	4022-1298	4026 - 1302
STARK	4283-1559	4289 - 1565
MARMATON	4391-1667	4395 - 1671
FORT SCOTT	4536-1812	4538 - 1814
CHEROKEE	4559-1835	4560 - 1836
MISS. DOL.	4674-1950	4674 - 1950






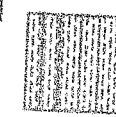


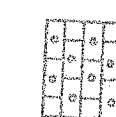


30.30.30.30

REMARKS

10-21-13 SPbD
 10-22 @ 267'
 10-23 @ 1976'
 10-24 @ 3520' Pull POC Bit
 10-25 @ 4038'
 10-26 @ 4315'
 10-27 @ 4590'
 10-28 @ 4632'
 10-29 @ 4779'

API: 15-101-22467

LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb sh
-  Limestone
-  Ool. Lime
-  Chert
-  Dolomite

DRILLING TIME IN MINUTES
 PER FOOT

Rate of Penetration Increases

5" 10" 15" 20" 25"

DEPTH
 2000

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

50-103051-06

Sh. Rd. Silly

Sh. Road Silly

Sh. Rd. h. Silly

ANHYDRITE 2073 + 651

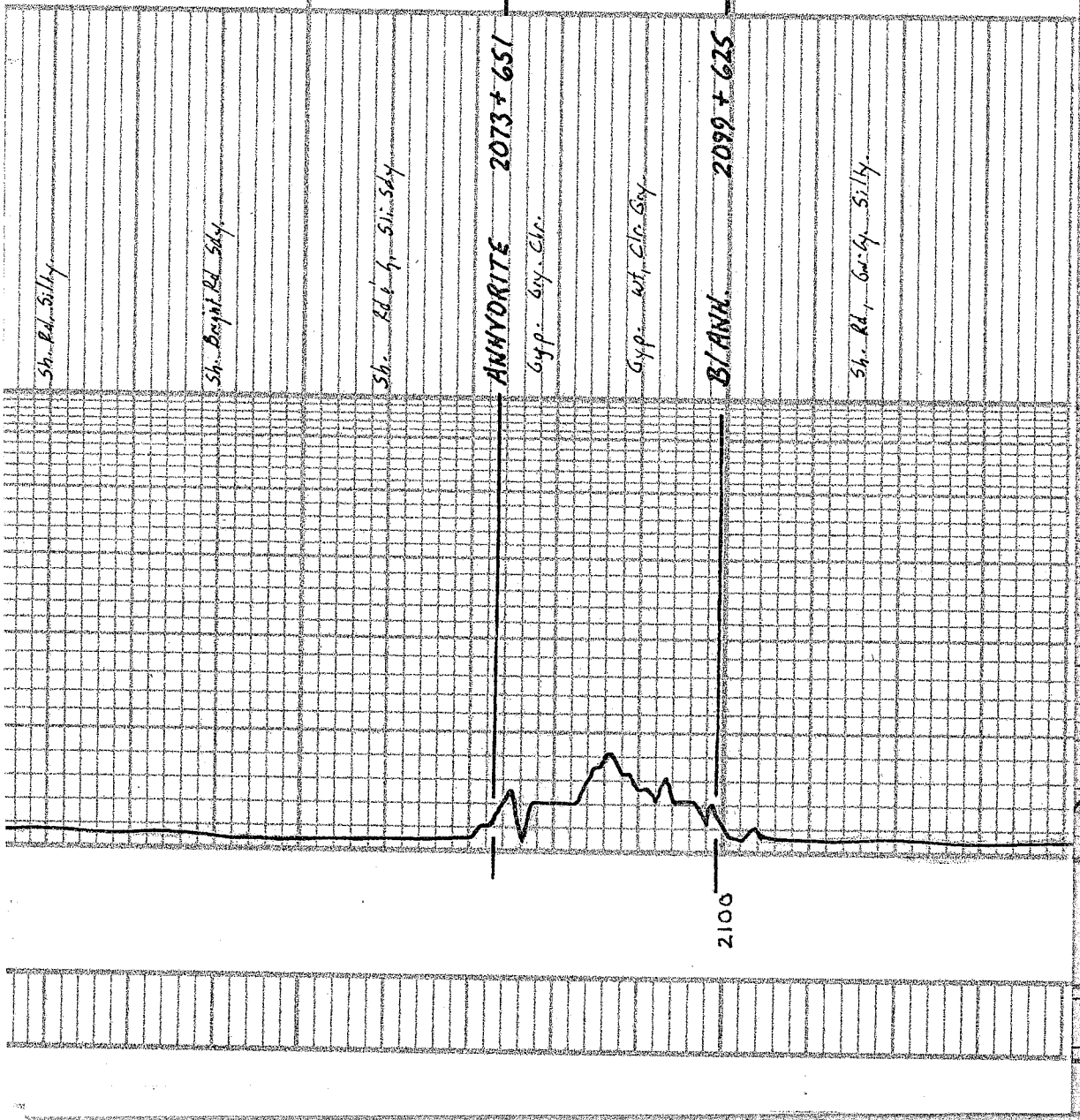
Gyp. Gy. Cr.

Gyp. wt. Cr. Gy.

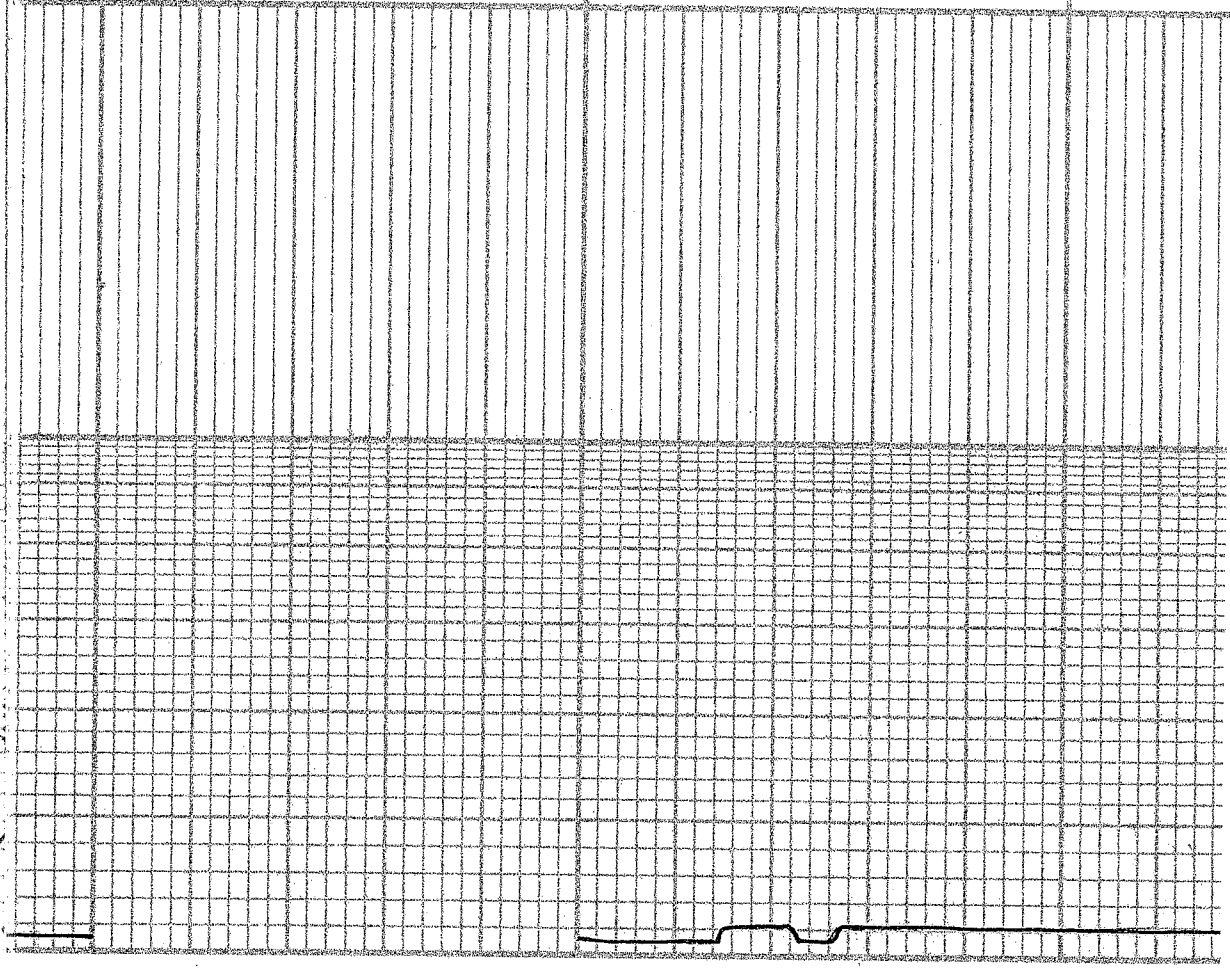
BLANK 2099 + 625

Sh. Rd. Cr. Gy. Silly

2100



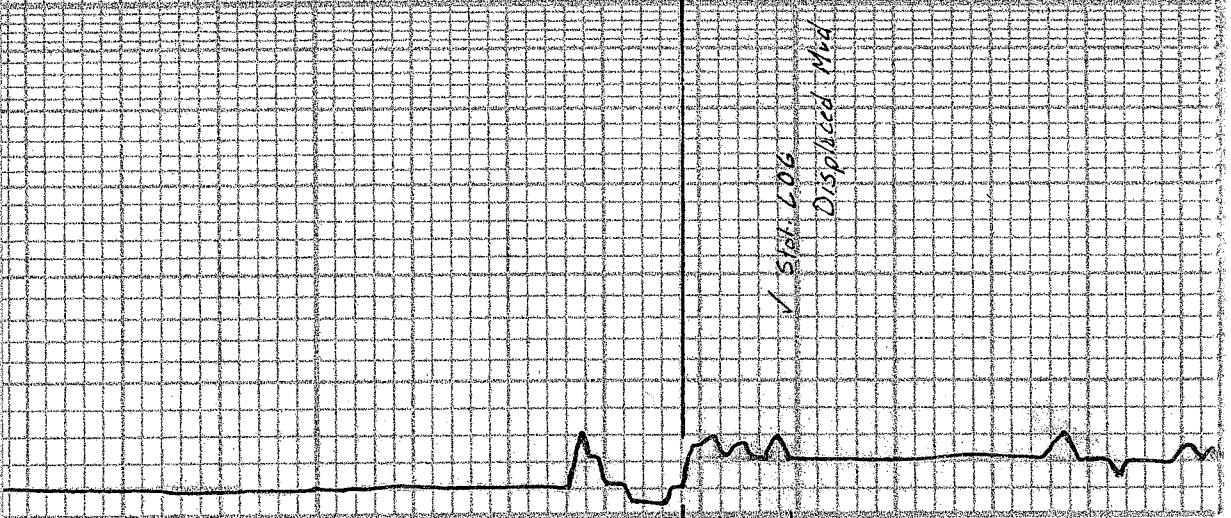
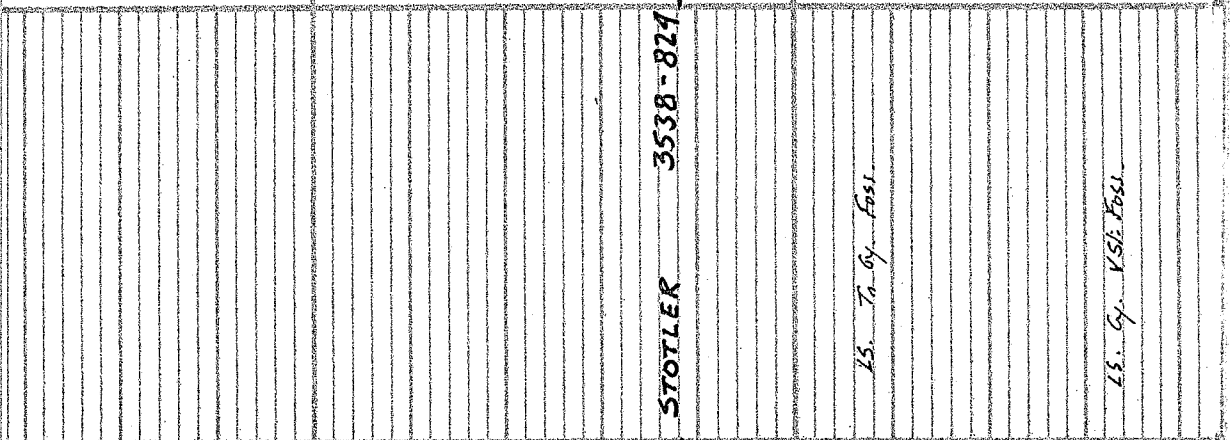
2000



2150

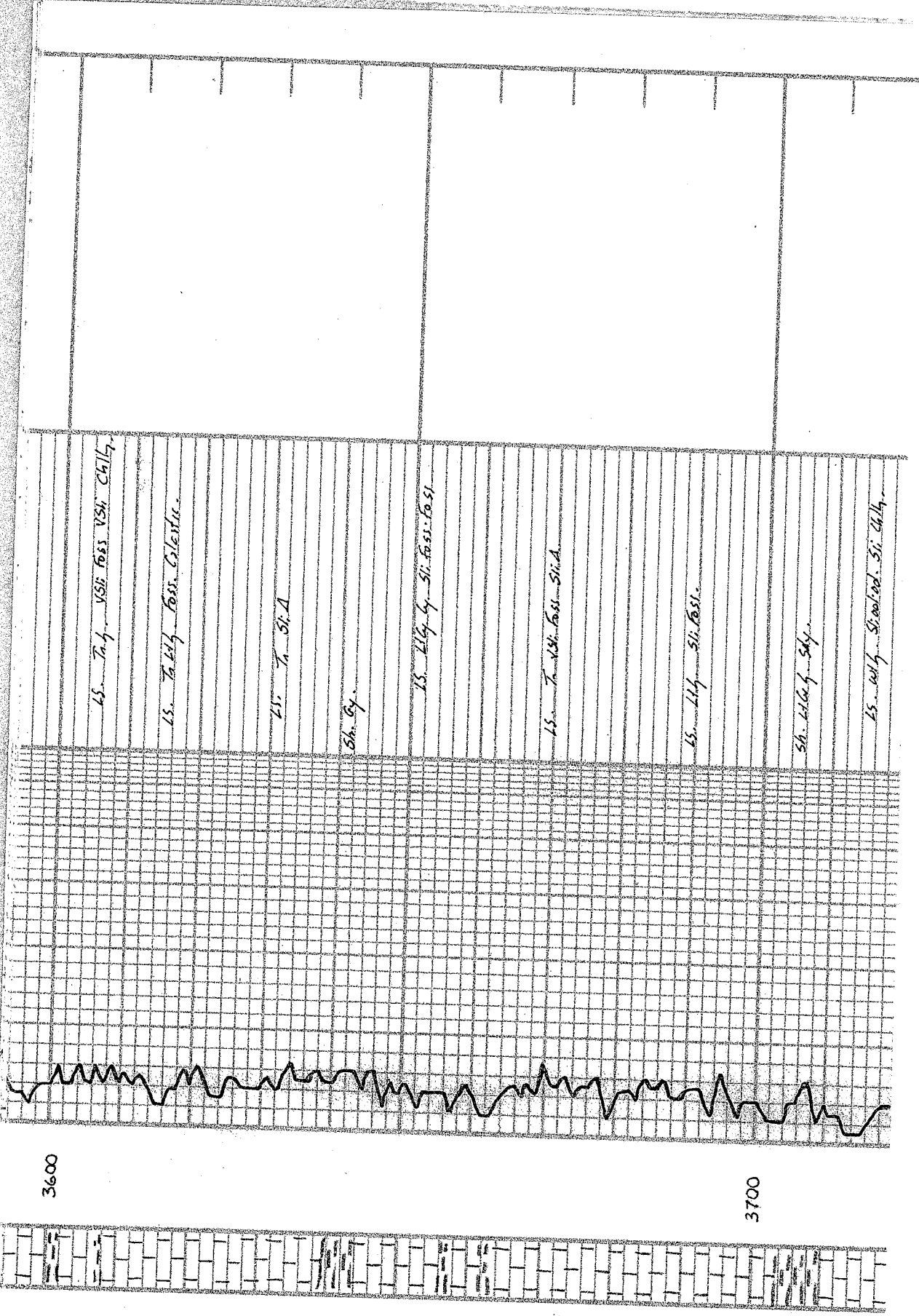
3400





3500





L.S. Taly. V.S.I. Foss. V.S.I. Chly.

L.S. Taly. Foss. Silic.

L.S. Taly. Sil. A.

Sh. Gy.

L.S. Taly. Sil. Foss. Sil. A.

L.S. Taly. Foss. Sil. A.

L.S. Taly. Sil. Foss.

Sh. Taly. Sil. Chly.

L.S. Taly. Sil. Foss. Sil. Chly.

3600

3700

LS. Br. G. Sl. Foss.

LS. Foss. Calc. Col. Calc.

LS. calc. Foss. Col. Calc.

Sh. DE. G.

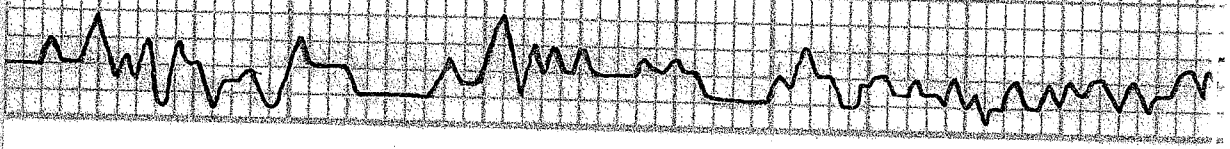
Sh. G. G.

LS. Foss. Col. Calc.

LS. Br. G. Sl. Foss.

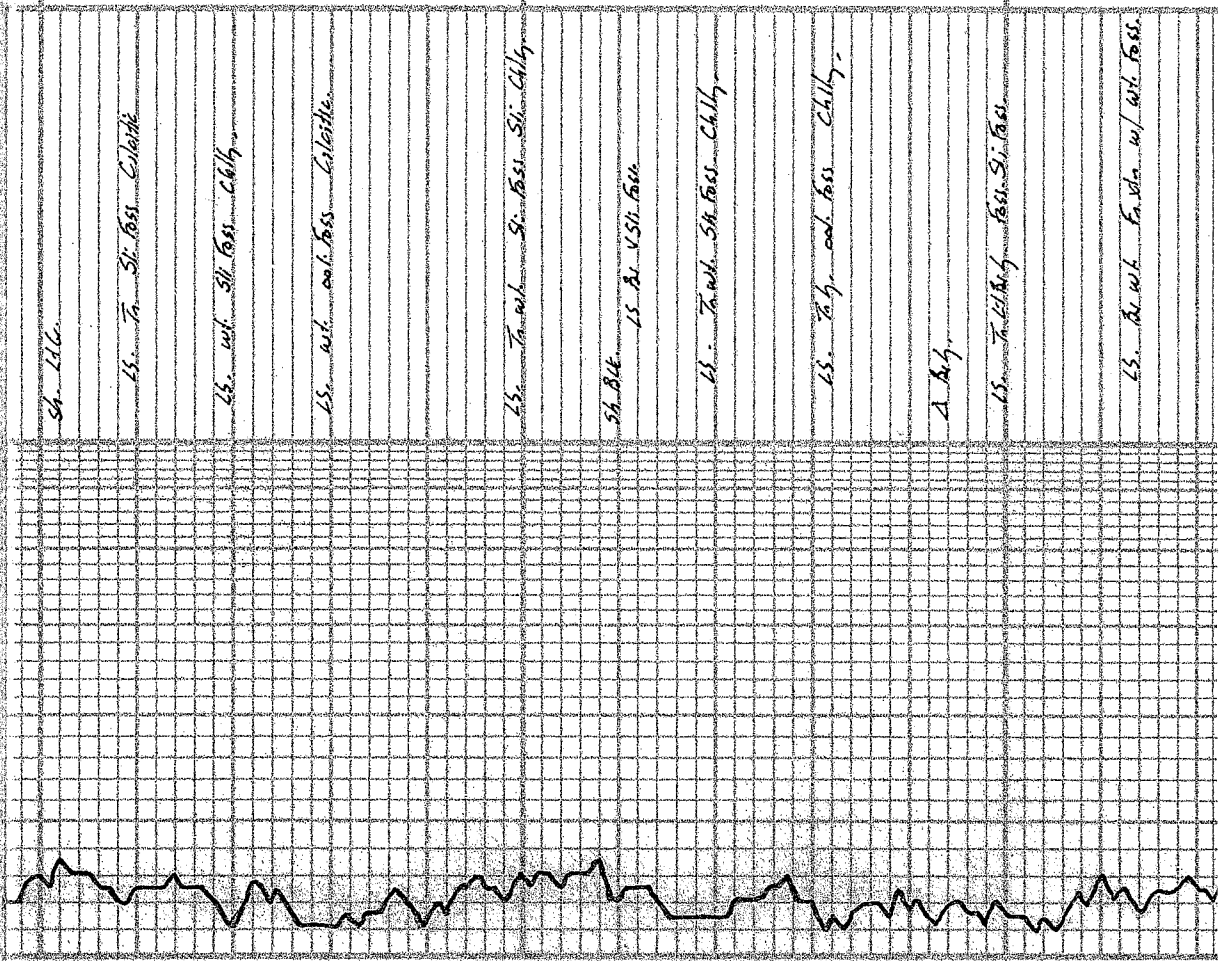
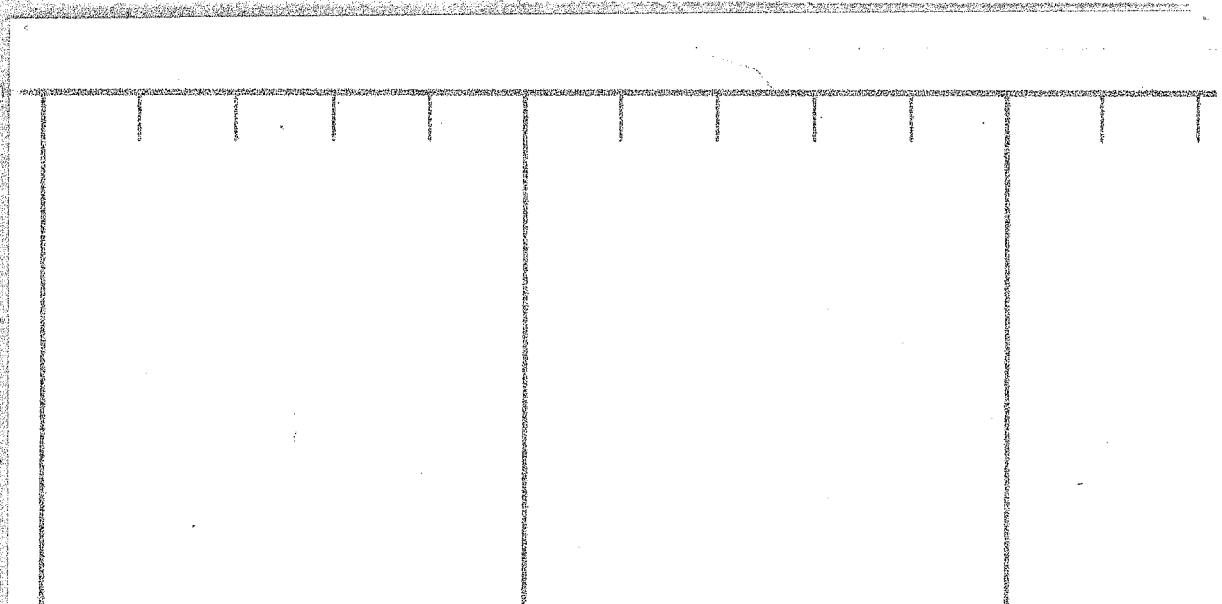
LS. Foss. Col. Calc.

Sh. DE. G.



3800

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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3900



Sh. 116

LS. Fa. Si. foss. Caliche

LS. wt. Sh. foss. Chilly

LS. wt. wt. foss. Caliche

LS. Fa. wt. Sh. foss. Si. Chilly

Sh. 844 LS. A. V. Sh. foss.

LS. Fa. wt. Sh. foss. Chilly

LS. Fa. wt. wt. foss. Chilly

A. A. 3.

LS. Fa. wt. wt. foss. Si. foss.

LS. wt. wt. Fa. wt. wt. wt. foss.

LS. Dwell. Foxla. w/ wt. Foss.

HEEDNER 3984-1260
Sh. Blk. Gang. (1000)

Sh. Lily. G.

LS. w/ VSI. Foss. Chly.

Sh. G.

LANSING 4026-1302

LS. Foss. St. Foss. od. Sli. A

A. Dwg.

LS. To VSI. A
Sh. G. Dk. G.

LS. Bl. Sli. Foss.

Sh. Lily.

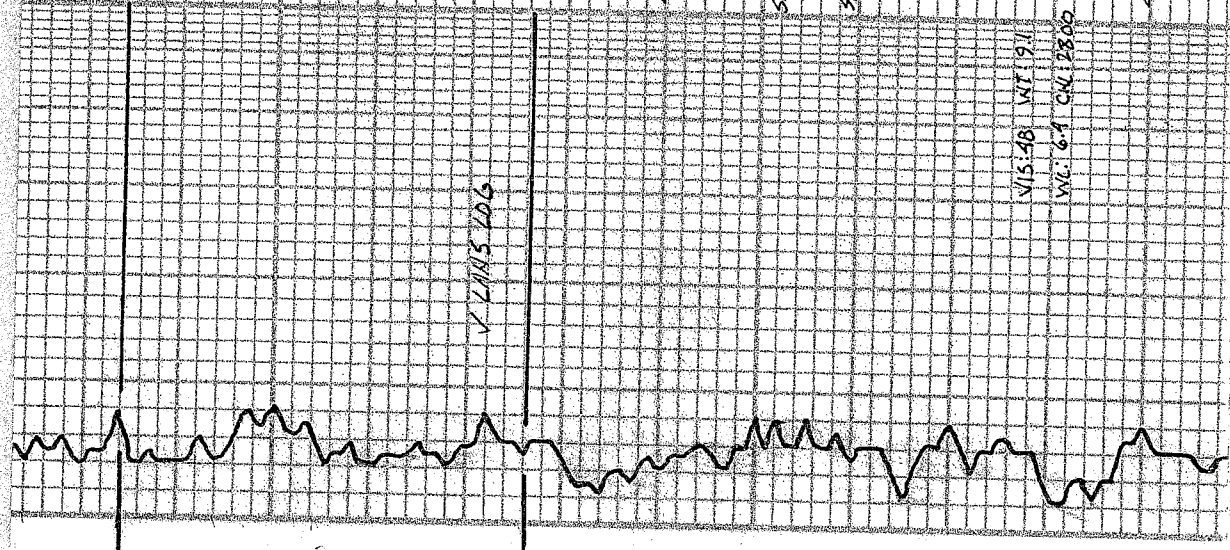
LS. Foss. Sli. Foss. Sli. A

LS. Bl. Dwg.

LS. w/ Lily. Foss. od. VSI. Chly.

A. Dwg.

LS. w/ VSI. Foss. VSI. Chly.



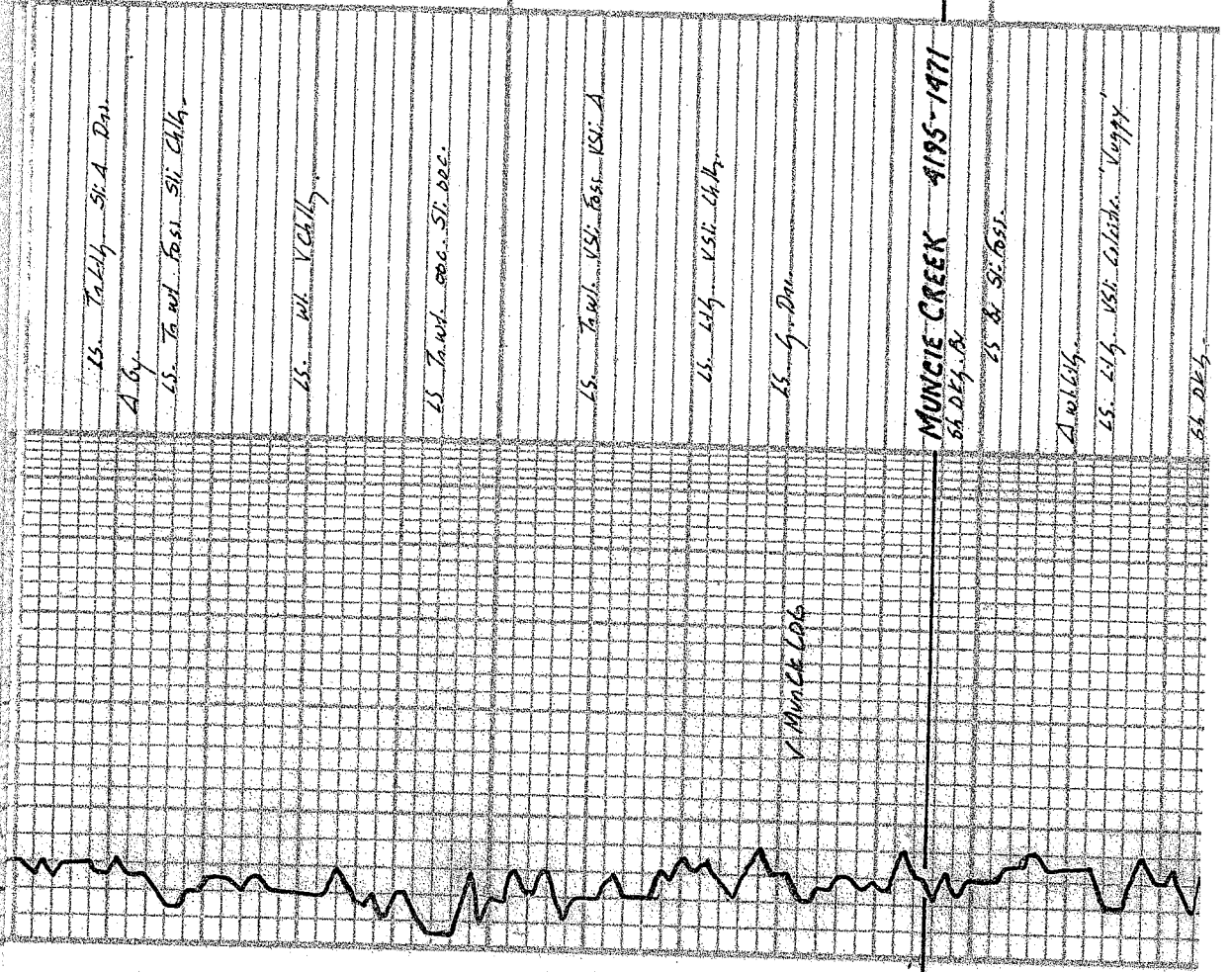
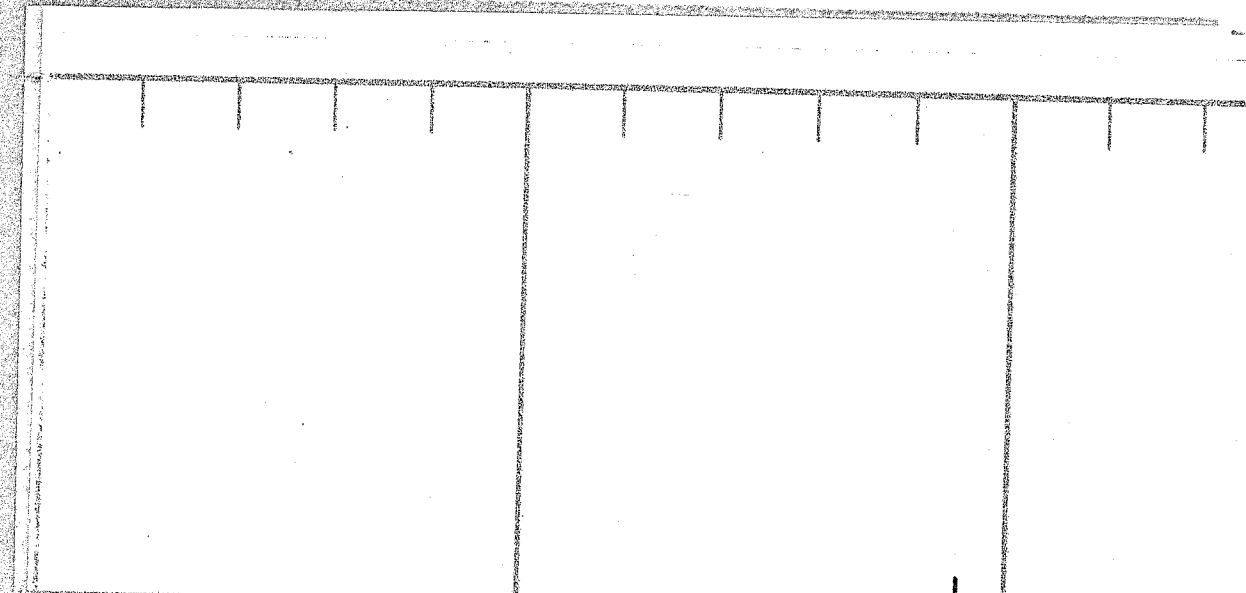
VIS. 481 INT 921

W/L: 6.1 CAL 2800

4000

4100

4200



15. Tallh. Sil. A. Dan.
A. G.

15. Tallh. Sil. A. Dan.

15. Tallh. Sil. A. Dan.

15. Tallh. Sil. A. Dan.

15. Tallh. Sil. A. Dan.

15. Tallh. Sil. A. Dan.

15. Tallh. Sil. A. Dan.

MUNCIE CREEK 4195-1471
SL. DEB. &

15. Tallh. Sil. A. Dan.

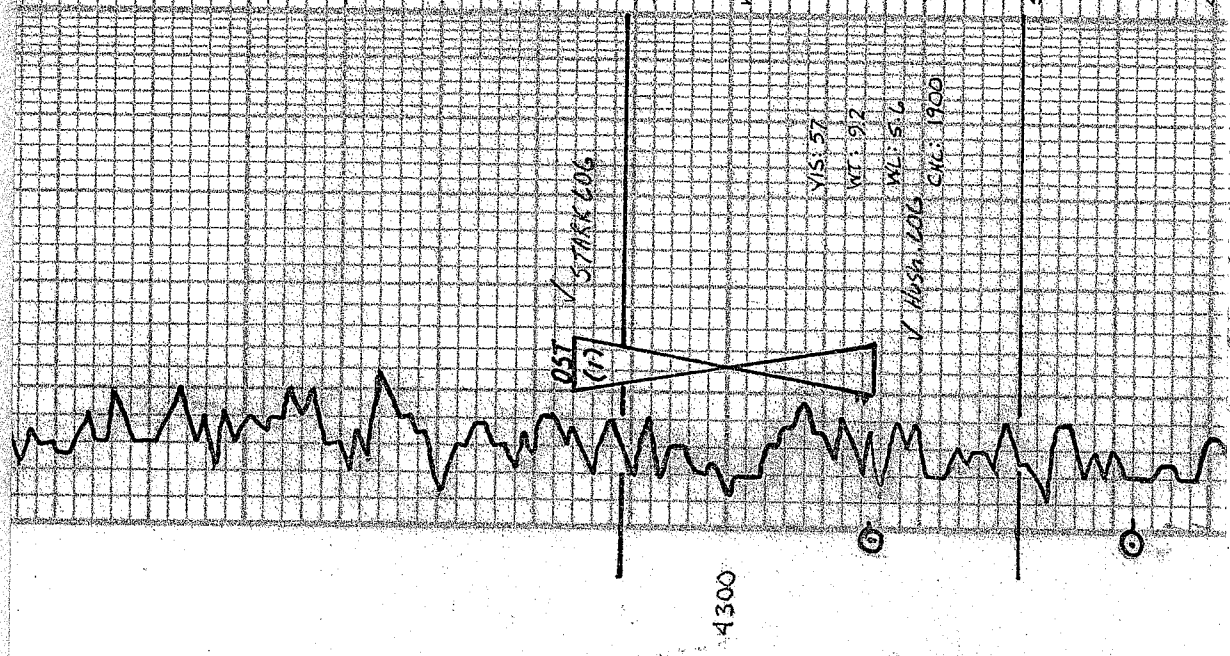
15. Tallh. Sil. A. Dan.

15. Tallh. Sil. A. Dan.

15. Tallh. Sil. A. Dan.

MUNCIE CREEK

61 L.R. VSI. 1050
 Sh. 1464
 65 wt. Foss. Si. A. Dni.
 65 wt. L.P. Si. Foss. Si. A.
 65 R. G. VSI. 1051
 Sh. 1464
 65 T. G. 1000. Si. 1000.
 65 T. G. Dni.
 STARK 4289-1565
 Sh. 844. 1006.
 65 T. G. 1000. V. S. 1000.
 65 R. G. VSI. 1050. F. F. 1000.
 65 wt. L.P. V. S. 1000. F. F. 1000.
 65 wt. L.P. V. S. 1000. F. F. 1000.
 65 T. G. Dni. V. S. 1000.
 HUSHPUCKNEY 4330-1606
 Sh. 844. 1006.
 65 T. G. Si. Foss. Si. A. Dni.
 65 wt. V. Ch. 1000. V. S. 1000. 1000.

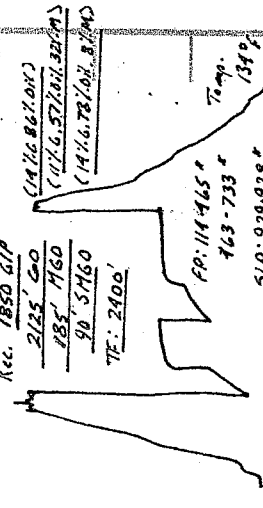


DST (1) 4289-4315

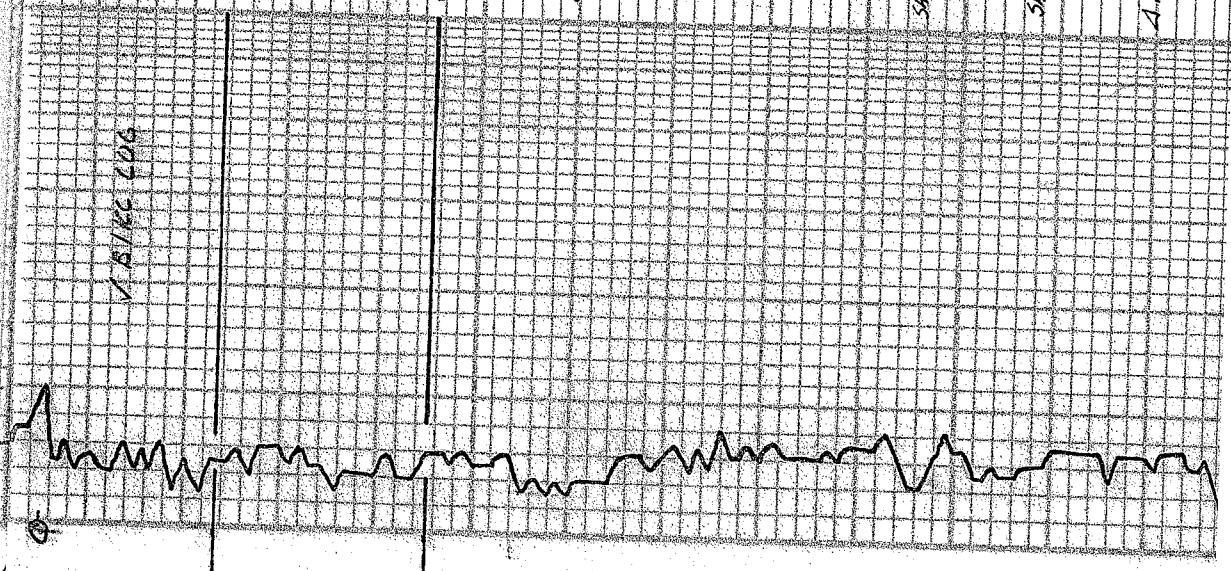
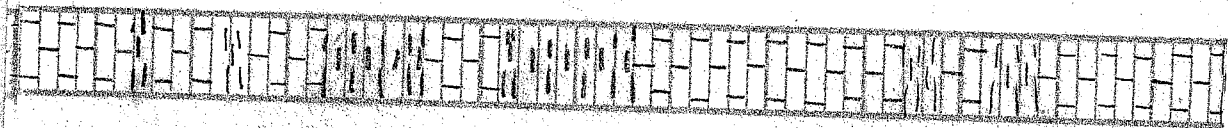
1ST DEN: Bottom bucket / min. 3 3 3
 2ND DEN: " " " " " "

30-60-45-90

Rec. 1850' GIP
 2125' GO
 185' M60
 90' S7460
 TF: 2400'



FR: 114-465 *
 763-733 *
 S/P: 929-928 *
 T. G. 1399



V/S/KC LOG

4400

LS. Mt. Lily Sil. Pass. of DE. h. Pass.

LS. Mt. Y. Sil. Pass, Calif.

O/KC 4373-1649

LS. Mt. Ta. Sil. Pass. Sh. Lily

Sh. Lily of Silby Sky

MARMATON 4395-1671

LS. Ta. h. Sil. Pass

Sh. Red Lily of Silby

LS. Lily Silby

LS. Ta. h. Du. Pass. Silby

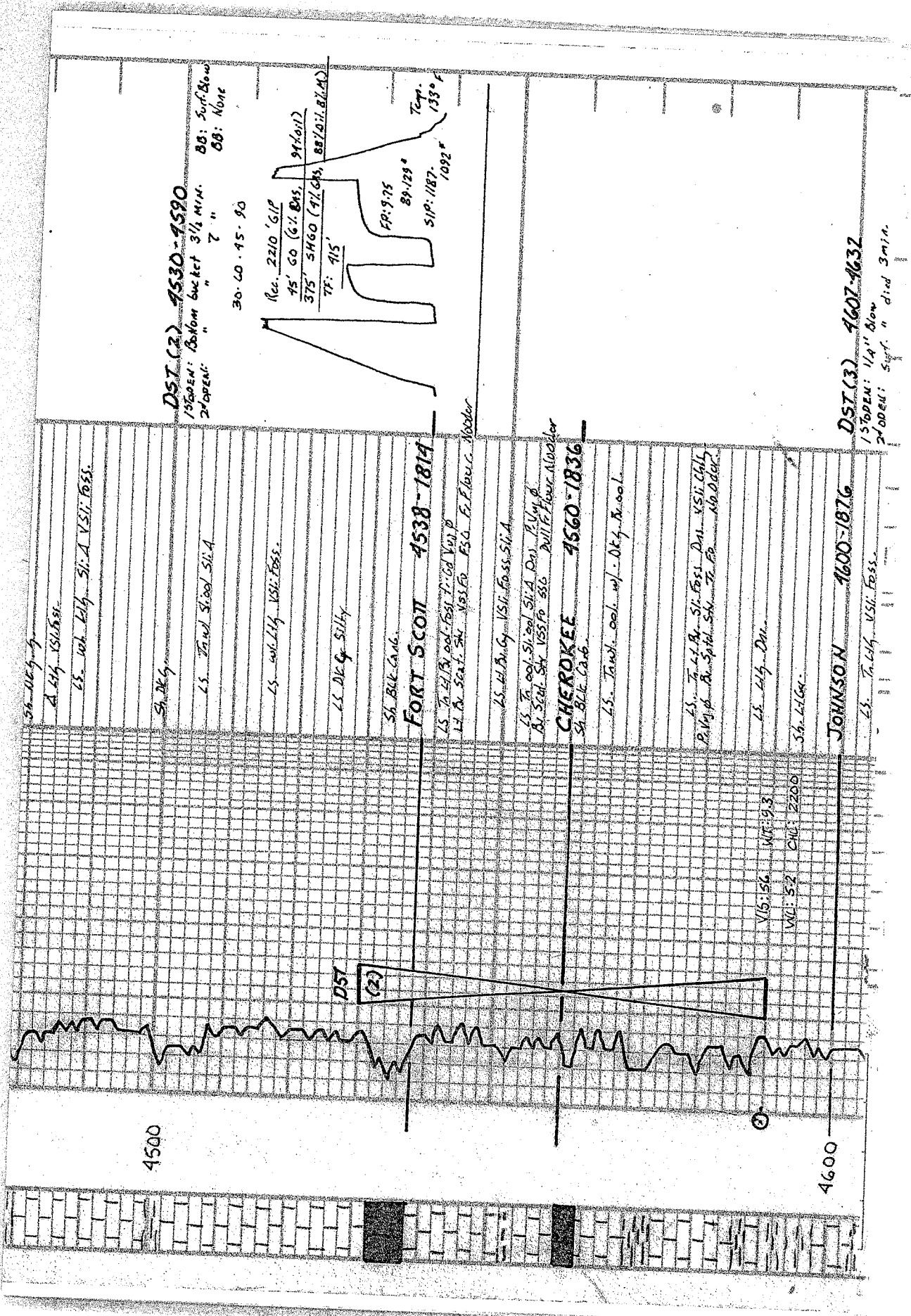
Sh. Lily

LS. Ta. h. Sil. Pass Silby

Sh. Lily, Ca.

LS. h. Ta. Silby

A.P.



DST (2) 4530-4590

1500 ft: Bottom bucket 3 1/2 min.
 2000 ft: " " 7 "
 3000 ft: None

30. 40. 45. 90

Rec. 2210' GIP
 45' 60 (6% Gas, 91% Oil)
 375' 5460 (9% Gas, 88% Oil, 8% A)
 77: 415'

FR: 9.75
 89-129*
 SIP: 1187
 1092*
 Temp. 133° F

FORT SCOTT 4538-1814

LS. Tan. clay. silty. Foss. T. Col. Vol. p
 L. R. Seal. Sh. VSS. F. F. brown nodular

LS. Tan. clay. silty. Foss. Silty

CHEROKEE 4560-1836

LS. Tan. clay. silty. Foss. Silty
 Dk. Seal. Sh. VSS. F. F. brown nodular

LS. Tan. clay. silty. Foss. Silty
 Dk. Seal. Sh. VSS. F. F. brown nodular

JOHNSON 4600-1876

LS. Tan. clay. silty. Foss.

DST (3) 4607-4632

1500 ft: 1 1/4" blow
 2000 ft: 5 min. n. d. 3 min.

4500

4600

DST (2)

VIS: 56 WT: 9.3
 MW: 52 CW: 2200

30 . 30 . 30 . 30

Rec. 2' OCH
(15' 101.85' MD)

17:56 66"
518: 10-12"

Temp.
123.9c

B/JOHNSON 4610-1886

sd. cl. Fa. G. Sub RL Dol. P. Jap. of
H. B. 541. 544. V. G. 550. F. G. 552. F. 553. 554.

sd. cl. Fa. M. G. Sub RL P. Jap. of
H. B. 541. 544. V. G. 550. F. G. 552. F. 553. 554.

sd. cl. w. M. G. Sub RL

sd. cl. w. L. H. Shly. Japart. M. G. Sub RL.

sd. w. A. w. Fresh Cut sd. M. G. Sub RL.

MISSISSIPPI "O" 4651-1927

ls. Ta. Very A. A. w. L. H. Ta. Sil. Foss.

ls. Yellow Sil. ls. Ta. X. Fossil Dolomite

MISS. SPERGEN 4677-1950

Dol. Ta. X. Fossil Sub. Sil. Pyrite.

Dol. Ta. Sil. Fossil w. D. G. Foss.

Dol. Ta. w. X. Fossil Sub. Sil. Foss.

Dol. Ta. L. Fossil. Fossil. Sil. Foss.

Dol. Ta. w. X. Fossil

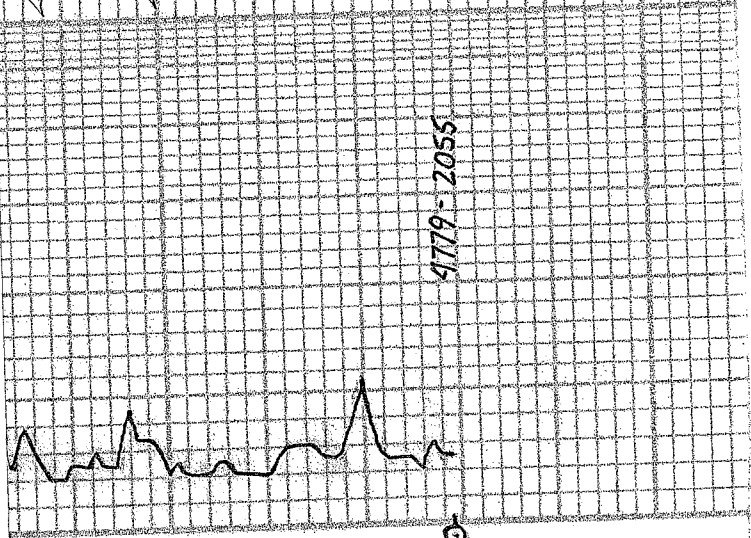
(3)



15: 60 WE 93

WE 50 C4 270

4700



9779-2055

Δ wt. Lt. Sil. Foss. Fresh Cut

Lt. F. h. Pac.

Δ wt. Lt. Foss. Fresh Cut

Δ wt. h. Sil. Foss. Fresh Cut

LSWT V.C.H.
Δ wt. A.C.G. Foss. Fresh Cut

4800



263379

TICKET NUMBER 44381

LOCATION Oakley, Ks.

FOREMAN Damen

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

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/21/13	7158	Hineman #1	9	19	27	Lane
CUSTOMER Raymond Oil			Dighton			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			11ET0	463		Cory
STATE			Turkey Rd	466		Cody
ZIP CODE			Rd 45			
			To Rd 110			
			14W 55			

JOB TYPE Sur face HOLE SIZE 12 1/4 HOLE DEPTH 267 CASING SIZE & WEIGHT 8 5/8, 24"
 CASING DEPTH 265.75 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14 8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 15.65 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting Rig up on H2 #1 Run casing Break Circulation
with Rig Pump Hookup to Pump Truck mix 175 SKs Com 3%CC 2% Gel
Displace with Water 15.65 bbls. Shut in Wash up pump + Lines

Cement Did Circulate

Approx 5 bbl To Pit

Thanks Damen + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 S	1	PUMP CHARGE	\$ 1150.00	\$ 1150.00 ✓
5406	25	MILEAGE	\$ 5.35	\$ 131.25 ✓
5407	8.23	Ton Mileage Delivery	\$ 1.25	\$ 430.00 ✓
1104 S	175 SKS	Class "A" Cement	\$ 18.55	\$ 3246.25 ✓
1102	494*	Calcium Chloride	\$.94	\$ 464.86 ✓
1118 B	329*	Bentonite	\$.27	\$ 88.83 ✓
			SubTotal	\$ 5510.69
			Less 10%	\$ 551.07 ✓
			SubTotal	\$ 4959.62
			SALES TAX 7.15%	\$ 244.49 ✓
			ESTIMATED TOTAL	\$ 5204.11 ✓

completed

AUTHORIZATION Carlos Fabula

TITLE Tool Pusher.

DATE 10/20/13

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



CONSOLIDATED
Oil Well Services, LLC

263638

TICKET NUMBER 44387
LOCATION Oakley, Ks.
FOREMAN Danen, Fuzzy

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/30/13	7158	Hine man #1	9	19	27	Lane Ks.
CUSTOMER Raymond oil			Dighton 11E-4S 1/2w S into			
MAILING ADDRESS						
CITY			TRUCK #	DRIVER	TRUCK #	DRIVER
STATE			463	Cory		
ZIP CODE			466	Cody		
			529	Jerney R.		
			Helper	Michael	Ride along	

JOB TYPE 2 Stage HOLE SIZE 7 7/8 HOLE DEPTH 4779' CASING SIZE & WEIGHT 5 1/2, 14"
CASING DEPTH 4768.48 DRILL PIPE _____ TUBING _____ OTHER DV 2109.45" #63 Top
SLURRY WEIGHT 142, 125 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 30.94
DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting Rig upon H²#1 Run Casing + Float Equip. Cent 1-3-7-9-11
+64 Basket #64 DV Tool #63 Top. Circulate Pump 5 bbl water mix 1415Ks 60/40 Pos
2 1/2 Gel 7 1/2 % Salt washup pump + Lines 800* Lift 1400* Land Displace with water 60 bbl
+ mud 56 Float Held Drop opening tool wait 10 min open DV tool @ 1000* Circulate on
Bottom for 45 min Pump 5 water mix 30SKs in R.H. 20SKs in M.H. mix 4200Ks 60/40 Gel
1/4 Flo Seal in Casing Displace with 52.5 bbl water Lift 700* Land 1800* Float Held
Cement Did Circulate washup pump + Lines Rig Down

DV Tool SN #22206

Approx 50 bbl To Pit

Thanks Danen & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 C	1	PUMP CHARGE	\$3175.00	\$3175.00
5406	25	MILEAGE	\$5.25	\$131.25
5407 A	28.4	Ton Mileage Delivery	\$1.75	\$1242.50
1131	191 SKs	60/40 Pos	\$15.86	\$3029.26
1131	470 SKs	60/40 Pos	\$15.86	\$7454.20
1118 B	3562*	Bentonite	\$.27	\$961.74
1111	688*	Salt	\$.50	\$344.00
1107	118*	Flo Seal	\$2.92	\$350.46
4159	1	5 1/2 AFU Float Shoe	\$433.25	\$433.25
4104	1	5 1/2 Basket	\$290.00	\$290.00
4283	1	5 1/2 DV Tool w/ Latch Down Plug Assp	\$4042.50	\$4042.50
4130	6	5 1/2 Centralizers	\$61.00	\$366.00
		SubTotal		\$21820.66
		Less 10%		\$2182.07
		SubTotal		\$19638.59
		SALES TAX	7.15	1111.46
		ESTIMATED TOTAL		\$20750.05

completed

Ravin 3737

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 identified on this form.