



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1087897
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: _____

1087897

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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GENERAL INFORMATION

Client Information:

Company: RAYMOND OIL COMPANY INC.

Contact: TED McHENRY

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: M&A TRUST #1

Operator: RAYMOND OIL CO. INC.

Location-Downhole:

Location-Surface: S27/20S/29W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL Job Number: D1127

Test Unit:

Start Date: 2012/04/28 Start Time: 12:30:00

End Date: 2012/04/28 End Time: 21:20:00

Report Date: 2012/04/28 Prepared By: JOHN RIEDL

Remarks: Qualified By: KIM SHOEMAKER

RECOVERY: 1300' GAS IN PIPE, 300' MUDDY GASSY OIL, 650, GASSY OIL



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

DRILL-STEM TEST TICKET

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State _____
 Test Approved By _____ Diamond Representative **JOHN C. RIEDL**

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

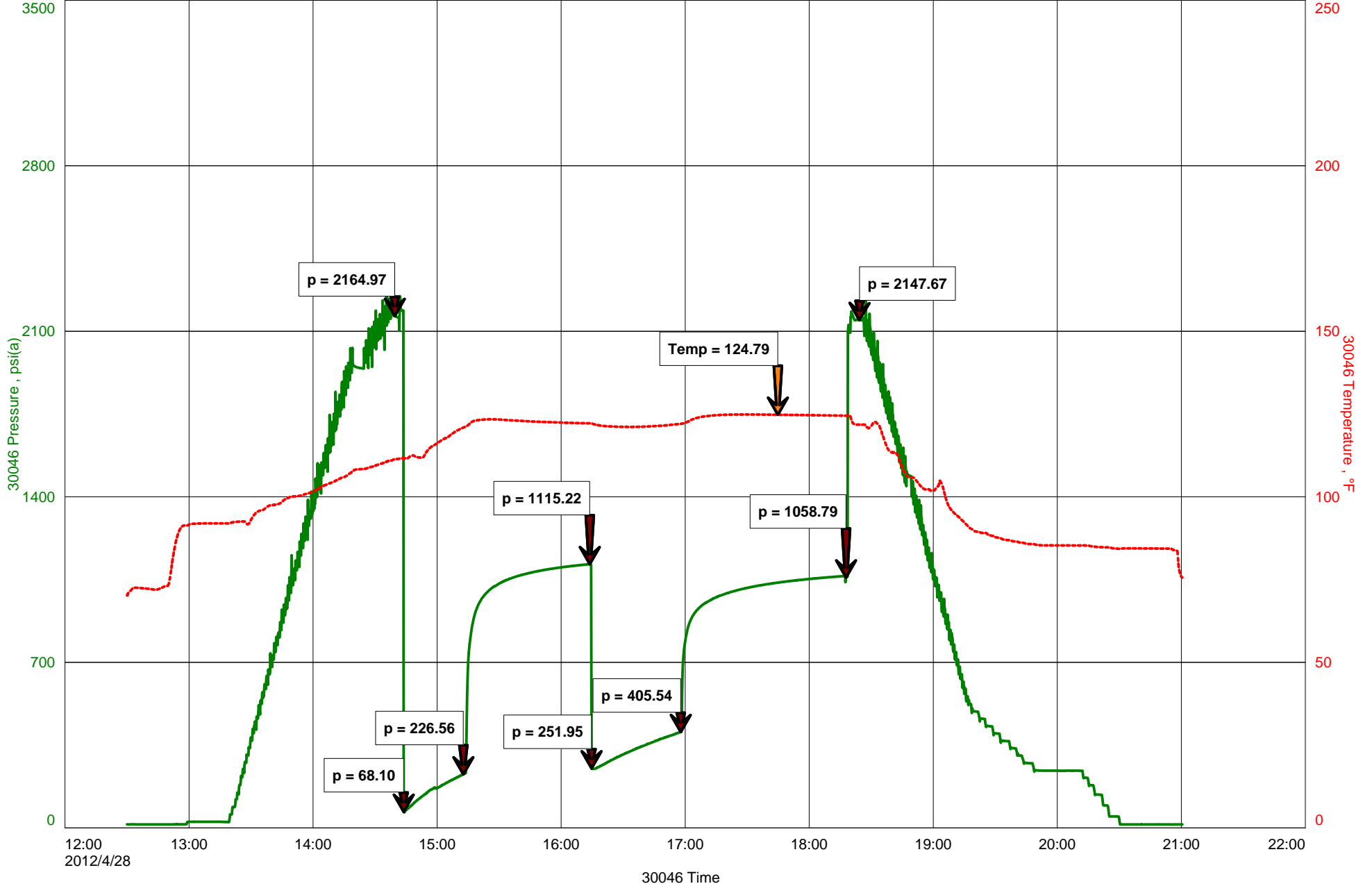
Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____ _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) _____	A.M. P.M.	Time Started Off Bottom _____	A.M. P.M.	Maximum Temperature _____
Initial Hydrostatic Pressure _____	(A)	_____	P.S.I.	
Initial Flow Period _____	Minutes	(B)	_____	P.S.I. to (C) _____ P.S.I.
Initial Closed In Period _____	Minutes	(D)	_____	P.S.I.
Final Flow Period _____	Minutes	(E)	_____	P.S.I. to (F) _____ P.S.I.
Final Closed In Period _____	Minutes	(G)	_____	P.S.I.
Final Hydrostatic Pressure _____	(H)	_____	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.

M&A TRUST #1



GENERAL INFORMATION

Client Information:

Company: RAYMOND OIL CO

Contact: TED McHENRY

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: M+A TRUST #1

Operator: RAYMOND OILCO.

Location-Downhole:

Location-Surface: S27/20S/29W

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: KIM SHOEMAKER

Test Type: STRADDLE Job Number: D1128

Test Unit:

Start Date: 2012/04/30 Start Time: 10:00:00

End Date: 2012/04/30 End Time: 22:40:00

Report Date: 2012/04/30 Prepared By: JOHN RIEDL

Remarks: Qualified By: KIM SHOEMAKER

RECOVERY: 1150' GAS IN PIPE, 200' MUDDY GASSY OIL, 740' GASSY OIL



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

DRILL-STEM TEST TICKET

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State _____
 Test Approved By _____ Diamond Representative **JOHN C. RIEDL**

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

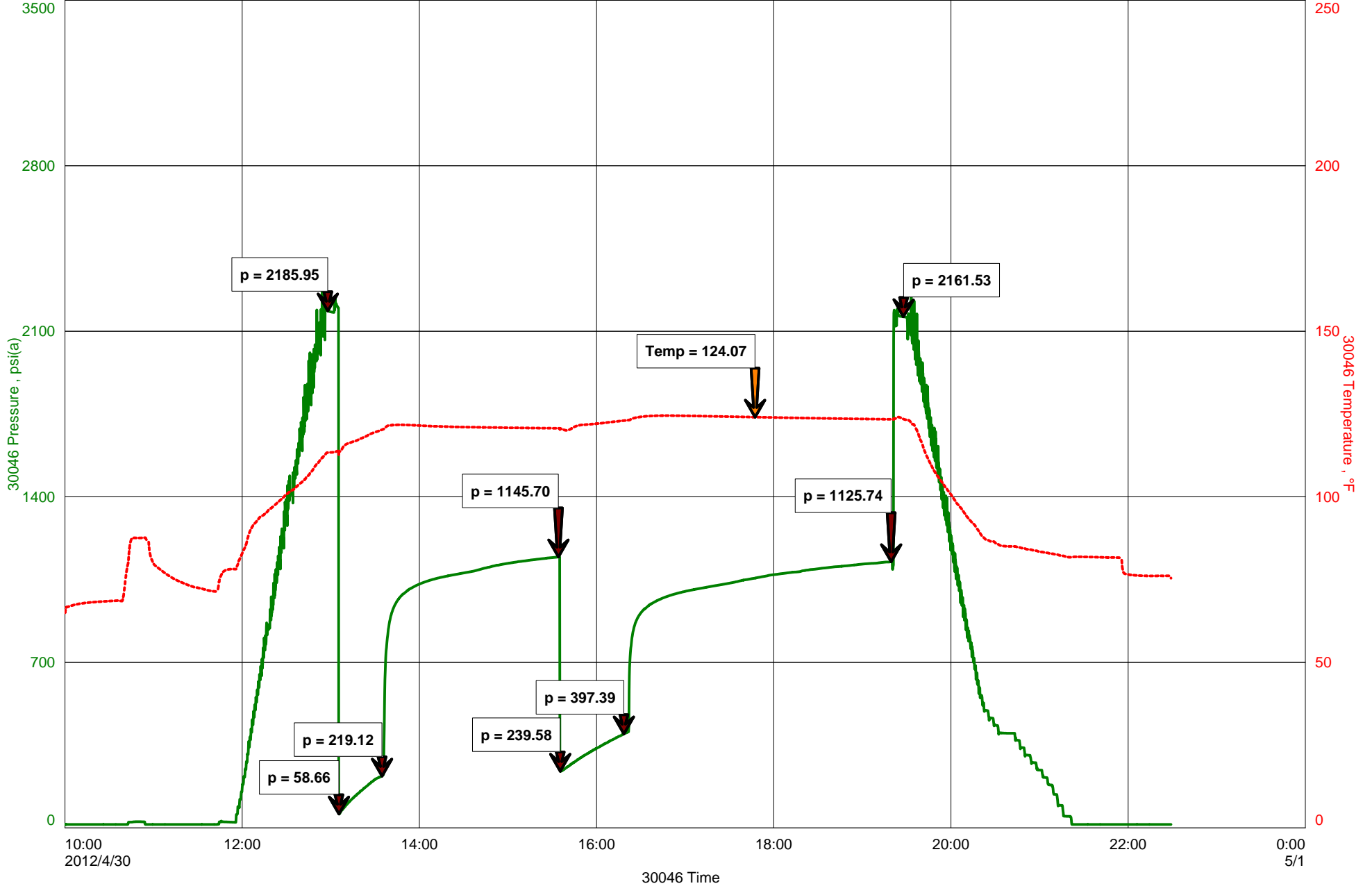
Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: _____

	Price Job
	Other Charges
	Insurance
	Total

	A.M. P.M.	Time Started Off Bottom	A.M. P.M.	Maximum Temperature
Initial Hydrostatic Pressure		(A) _____		P.S.I.
Initial Flow Period		Minutes (B) _____		P.S.I. to (C) _____ P.S.I.
Initial Closed In Period		Minutes (D) _____		P.S.I.
Final Flow Period		Minutes (E) _____		P.S.I. to (F) _____ P.S.I.
Final Closed In Period		Minutes (G) _____		P.S.I.
Final Hydrostatic Pressure		(H) _____		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.

M+A TRUST #1



Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 18, 2012

Clarke Sandberg
Raymond Oil Company, Inc.
PO BOX 48788
WICHITA, KS 67202-1822

Re: ACO1
API 15-101-22350-00-00
M & A Trust 1
NW/4 Sec.27-20S-29W
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 Sandberg



CONSOLIDATED
Oil Well Services, LLC

53

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

TICKET NUMBER 34474

LOCATION Oakley

FOREMAN Fuzz

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
5-1-12	7158	M + A Trust #1	27	20	29	KS Lawe	
CUSTOMER Raymond Oil Co.		DISTANCE 135 2 1/2 W 5 in		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				463	Josh G		
CITY		STATE		439	Bobby S		
ZIP CODE				528	Cody R		

JOB TYPE 2-stage HOLE SIZE 77/8 HOLE DEPTH 4819' CASING SIZE & WEIGHT 4 1/2 10.24 #
 CASING DEPTH 4813' DRILL PIPE _____ TUBING _____ OTHER DU Tool 2195'
 SLURRY WEIGHT 12.5-14.2 SLURRY VOL. 1.26-1.89 WATER gal/sk 5.6-10.8 CEMENT LEFT in CASING 42'
 DISPLACEMENT 75.8 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on LD #1 float equip Cent 1, 3, 5, 7, 9, 11, 61
 Basket Top #61 DU Top #62. Rig up and circulate. Pump 5566
 water, mix 225 SKS 60/40 pos 7 1/2 # salt, 2 # gel. Wash pump and lines
 Drop plug and displace 41 BBL water, 35 BBL mud. Lift press 700 #
 Land plug @ 1200 # float held. Drop DU Bomb w/ 10 min open DU
 Tool @ 1100 # Pump 5566 water mix 30 SKS in RL. Mix 425 SKS
 60/40 pos 8 # gel 1/4 # flo-seal. Wash pump and lines. Drop plug
 and displace 35 1/2 BBL water Lift press 600 # close DU Tool @ 1500 #
 Cement did circulate approx 30 BBL top of

Thanks Fuzz you

463
463
139

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401E	1	PUMP CHARGE	3020.00	3020.00
5406	45	MILEAGE	5.00	225.00
5407A	29.2 ton	Tow mileage Delivery	167	2194.20
1131	225 SKS	60/40 pos	15.10	3397.50
1131	485 SKS	60/40 pos	15.10	6870.50
1118B	3517 #	Bentonite	.25	879.25
1111	810 #	Salt	.45	364.50
1107	114 #	flo-seal	2.82	321.48
4161	1	4 1/2 - AFU Float shoe	342.00	342.00
4103	1	4 1/2 - BASKET	261.00	261.00
4129	7	4 1/2 - Centralizers	46.00	322.00
4283	1	4 1/2 - DU Tool w/ Latchdown	3850.00	3850.00
		sub total		22047.43
		less 10% disc		2204.74
		sub total		19842.69
		SALES TAX		941.68
		ESTIMATED TOTAL		20784.37

Ravin 3737

AUTHORIZATION [Signature]

TITLE Foreman

DATE _____

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



CONSOLIDATED
Oil Well Services, LLC

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

TICKET NUMBER 34469

LOCATION Oakley

FOREMAN Fuzz

FIELD TICKET & TREATMENT REPORT

CEMENT

Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4.21.12	7158	M+A Trust #1	27	20s	29w	Lawe

CUSTOMER
Raymond Oil Co.

MAILING ADDRESS

CITY STATE ZIP CODE

Distance
135-
Rd 20
2 1/2 W
S. W

TRUCK #	DRIVER	TRUCK #	DRIVER
399	miles S		
460	Cody K		
	Thomas B		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 264' CASING SIZE & WEIGHT 8 5/8
CASING DEPTH 261' DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14-7 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT in CASING 70'
DISPLACEMENT 15.3 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on h/d #1. Rise up and circulate. Mix 165 SRS class 'A' 390cc 290gal. Displace 15 1/4 BBL + slurry in cement did circulate approx 13465 ft.

Thanks Fuzz & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085.00	1085.00
5406	45	MILEAGE	5.00	225.00
5407a	7.8 ton	Tow mileage Delivery	167	586.35
11045	1655#	Class 'A' cement	17.65	2912.25
1118B	310 #	Bentonite	.25	77.50
1102	465 #	Calcium chloride	.89	413.85
		Subtotal		5299.95
		less 1070		5.30.00
		Subtotal		4769.95
		SALES TAX		192.98
		ESTIMATED TOTAL		4962.93

Ravin 3737

AUTHORIZATION R. W. Wilson

TITLE 249252

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.

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

318-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>RAYMOND OIL COMPANY, INC.</u>	ELEVATIONS
LEASE <u>* 1 M & A Trust</u>	KB <u>2867</u>
FIELD <u>WILDCAT</u>	DF _____
LOCATION <u>850' FNL & 1030' FWL</u>	GL <u>2862</u>
SEC <u>27</u> TWP <u>20s</u> RGE <u>29w</u>	Measurements Are All From <u>2867 KB</u>
COUNTY <u>LANE</u> STATE <u>KANSAS</u>	
CONTRACTOR <u>L.D. DRILLING, INC.</u>	CASING SURFACE <u>8 5/8" @ 261'</u>
SPUD <u>4-21-12</u> COMP <u>4-30-12</u>	PRODUCTION _____
RTD <u>4819</u> TO <u>4818</u>	ELECTRICAL SURVEYS <u>DUAL IND., DENS-N., MICRO</u>
LOG # <u>3580</u> CHEMICAL _____	

SAMPLES SAVED FROM 3600 TO 4819

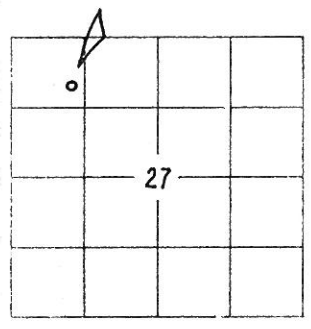
DRILLING TIME KEPT FROM 3400 TO 4819

SAMPLES EXAMINED FROM 3600 TO 4819

GEOLOGICAL SUPERVISION FROM 3600 TO 4819

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2154+713	2155+712
B/ANH.	2175+692	2180+687
WAB, STOTLER	3574-707	3576-709
HEEBNER	4001-1134	4003-1136
LANSING	4040-1173	4044-1177
STARK	4334-1467	4332-1465
MARMATON	4451-1584	4451-1584
FORT SCOTT	4589-1722	4592-1725
CHEROKEE	4612-1745	4614-1747
MISSISSIPPI 'U'	4671-1804	4680-1813
MISS. SPERGEN	4680-1813	4688-1821


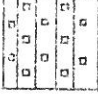
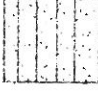
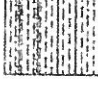

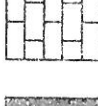
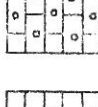
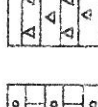
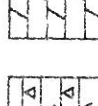


API: 15-101-22350

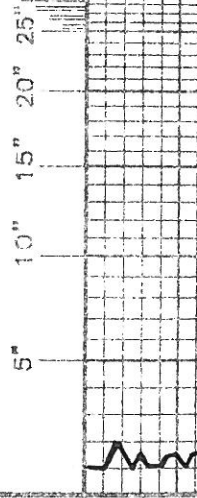
REMARKS

4-21-12 SPUD
 4-22 @ 317'
 4-23 @ 1928'
 4-24 @ 2800'
 4-25 @ 3350'
 4-26 @ 3805'
 4-27 @ 4250'
 4-28 @ 4580'
 4-29 @ 4650'
 4-30 @ 4819'

LEGEND

- 
 Anhydrite
- 
 Silt
- 
 Sandstone
- 
 Shale
- 
 Carb sh
- 
 Limestone
- 
 Col. Lime
- 
 Chert
- 
 Dolomite

DRILLING TIME IN MINUTES
 PER FOOT
 Rate of Penetration Increases



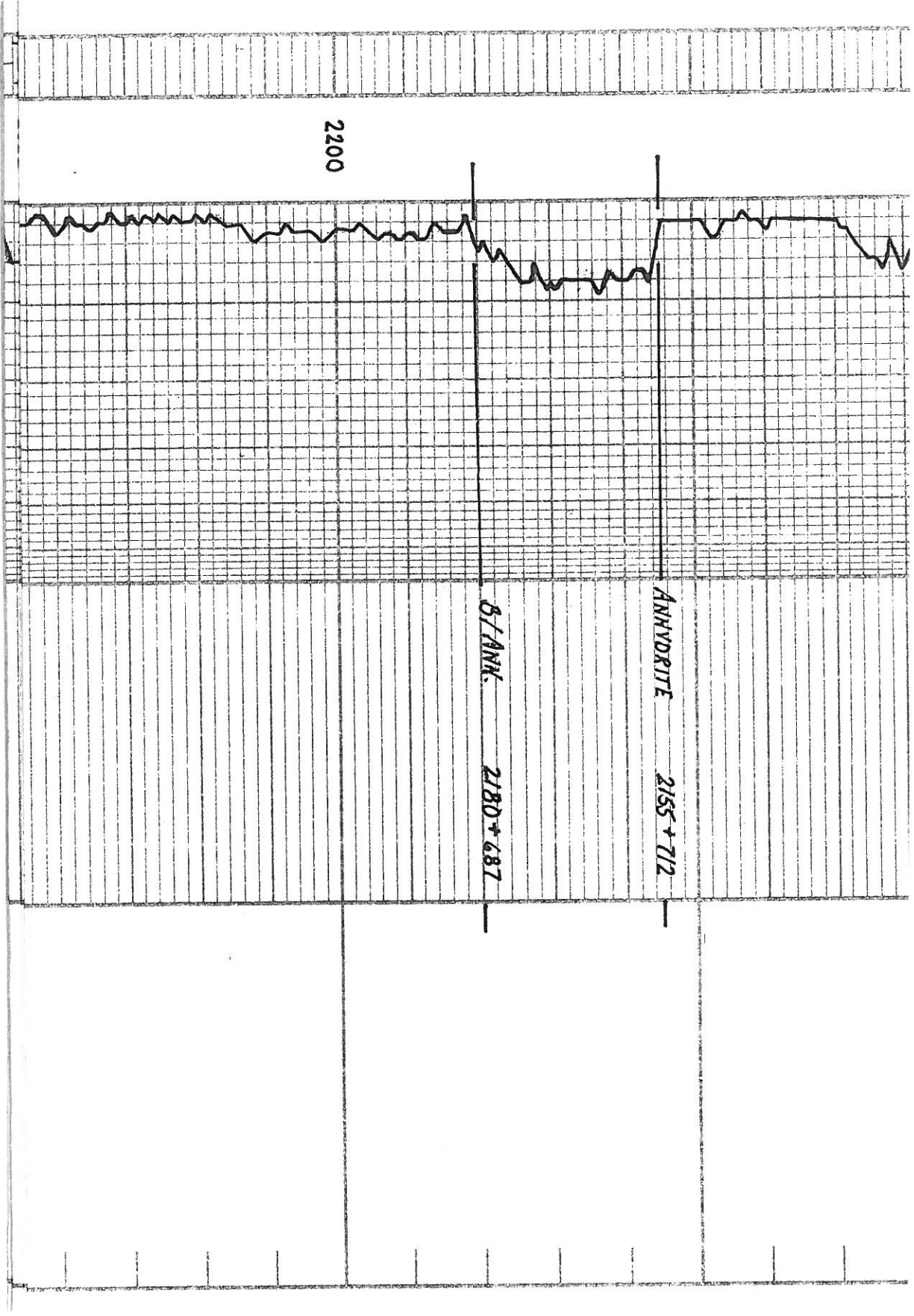
DEPTH
 2100

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

SHOF01-11



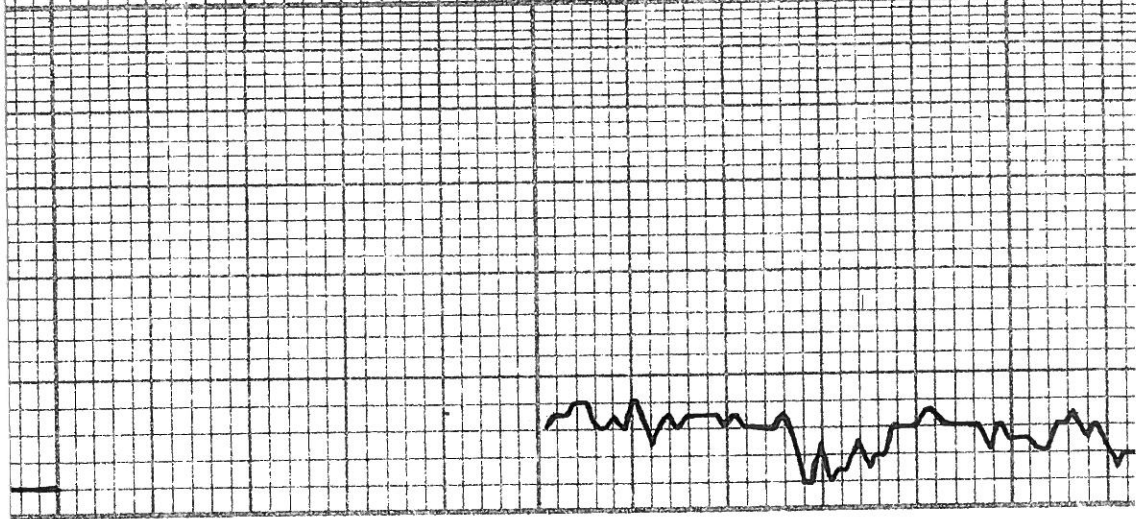
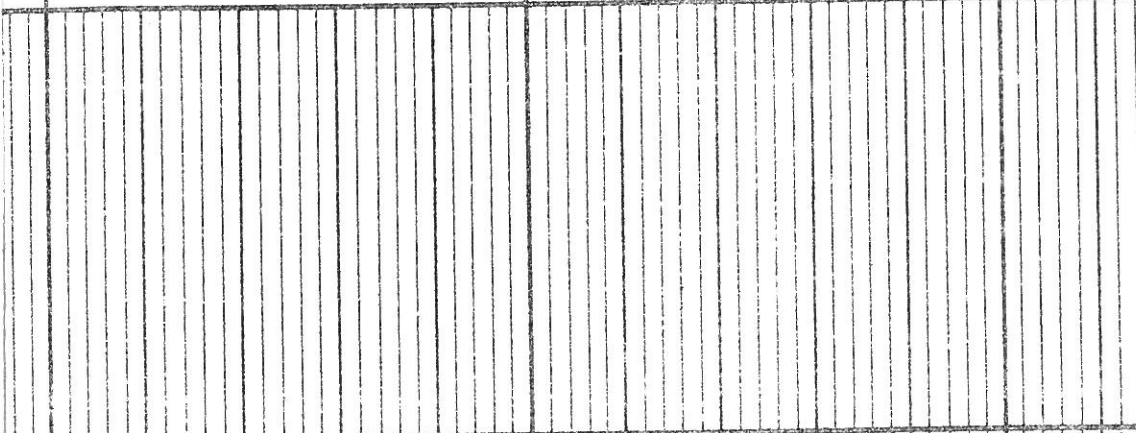
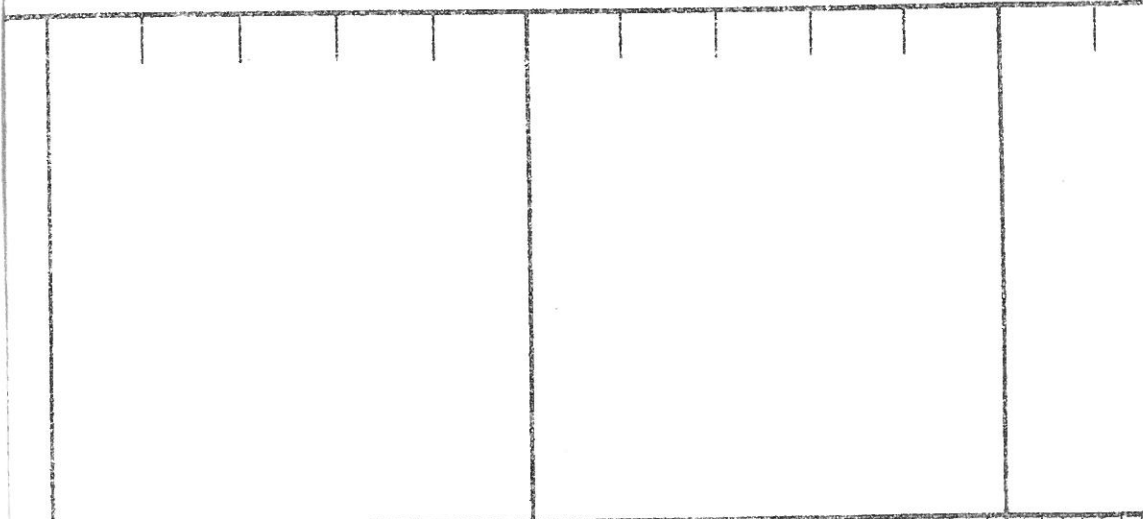
2200

ANHYDRITE

2155 + 712

S/ANK.

2180 + 687

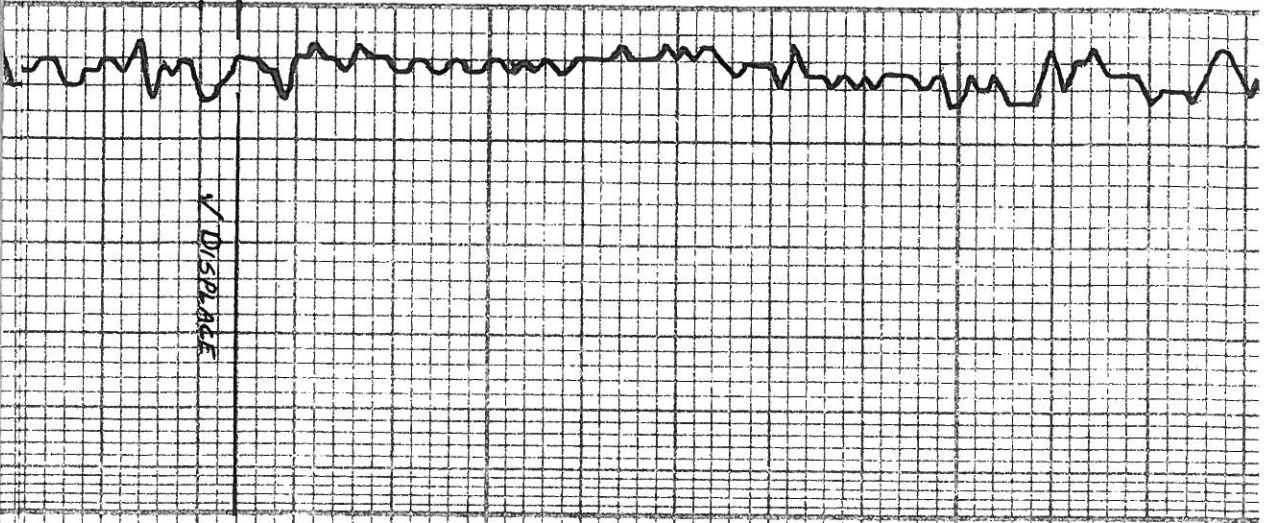


2250

3400



3500



V DISPLACEMENT

Samples are lagged

56:14g silty

WAB, STOTLER 3576-709

65. 78.4g silty

56. 146g

65. 78.4g silty. 56. 146g / OK out.

3600

3700



VIS 41
 WT: 9.1
 VC: 8.9
 GMA: 3200

ls. T. Gy. - VSS: Foss.

ls. Wt. L. Gy. mat. w/ dk. Bm. ool.

ls. Wt. VSS: Foss. Si. Calby.

ls. T. Gy. Si. Foss. Si. Calby.

Sh. Gy.

ls. Bm. VSS: Foss.

Sh. L. Gy.

ls. L. Gy. B. Dm. VSS: Foss.

ls. Gy. Dm. Si. Foss.

3800



15. 7a 18a Dq. 1517 Fost.

15. 4g. 588 Fost.

15. 7g. 201.

15. 7c 14g. St. Fost. w/ 212g and

51 4g.

15. 7a 4g. and 201.

15. 7c 14a Fost. and Chert.

15. 7a Fost. Glaston.

15. 7c 14g. St. Fost. St. Chert.

Sh. dk. G. blk.

Sh. ls. G. silty.

ls. w/ fr. sh. foss. fossils.

ls. sh. sh. fossils.

ls. w/ med. foss. calc. sh.

Sh. G. ls. silty.

ls. w/ sh. fossils. sh. A

ls. w/ fossils. calc. sh.

ls. w/ sh. fossils. sh. sh. fossils.

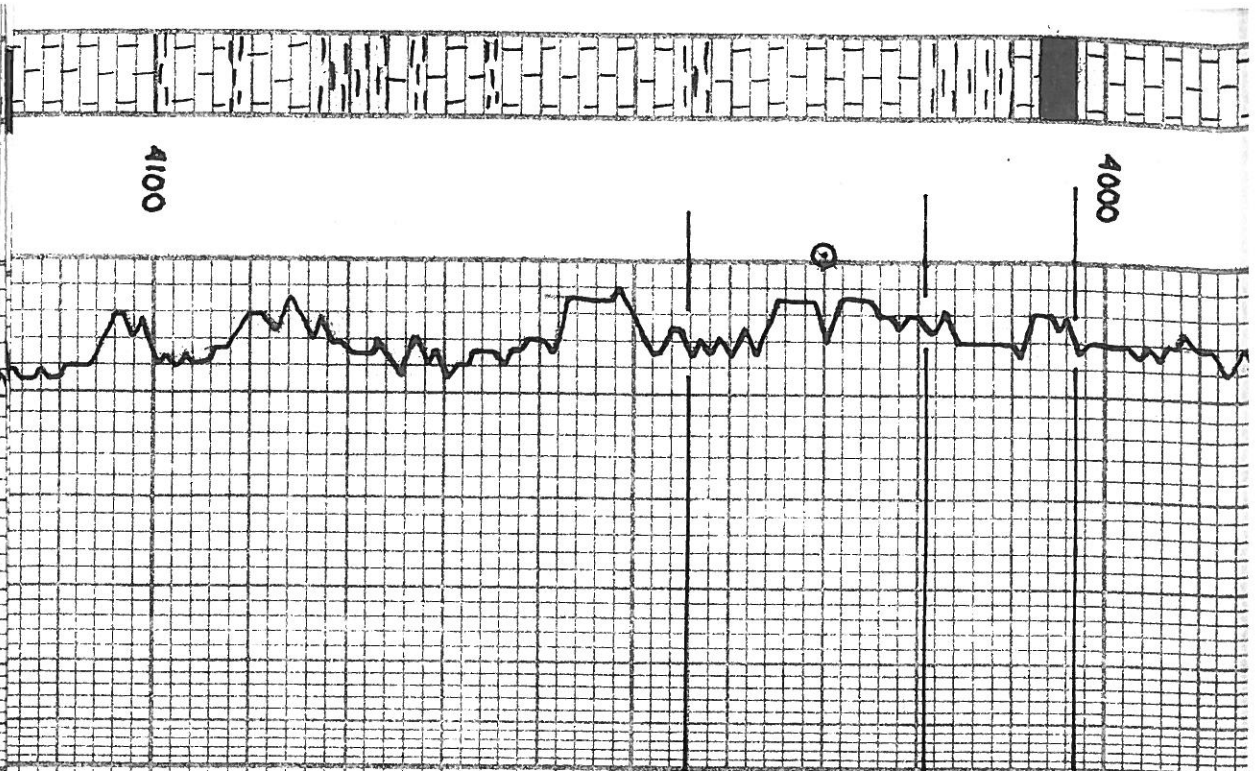
ls. w/ sh.

ls. w/ med. sh. fossils. sh. sh. fossils.

ls. w/ sh. sh. sh. fossils.

3900





45. 7. 4. Dns

HEBNER 4003-1136
St. Cath. (4020)

45. 7. 11. 8. St. Cath. St. Cath.

5h. 61. 6. 4.

TORONTO 4019-1152

45. 7. 11. 8. St. Cath. St. Cath.

45. 7. 11. 8. St. Cath. St. Cath.

45. 7. 11. 8. St. Cath. St. Cath.

5h. 61. 6. 4.

LANSTING 4044-1177

45. 7. 11. 8. St. Cath. St. Cath.

45. 7. 11. 8. St. Cath. St. Cath.

5h. 61. 6. 4.

5h. 61. 6. 4.

45. 7. 11. 8. St. Cath. St. Cath.

45. 7. 11. 8. St. Cath. St. Cath.

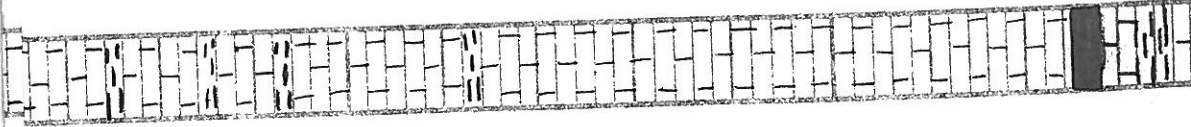
45. 7. 11. 8. St. Cath. St. Cath.

45. 7. 11. 8. St. Cath. St. Cath.

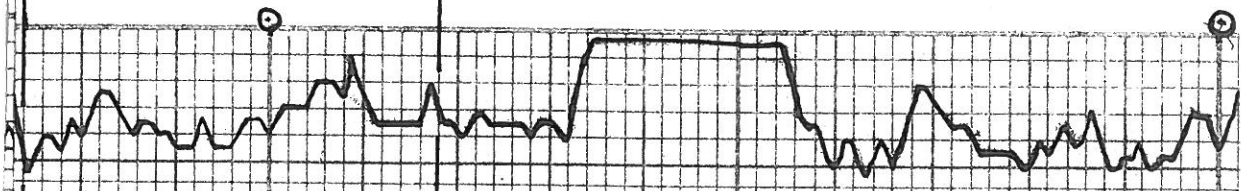
15. To Don VSE Chilly
 A Box
 15. mt. VChilly
 15. To osh St Chilly
 15. To mt. St Chilly
 15. To mt. and St. ore
 15. mt chilly
 15. 616, VSE A
 15. To by Don St A
 15.
 MUNCIE CREEK 4225-1350
 St. Box (4220)
 15. To by VSE Forest
 St. L.L.L.
 A 604-25 DR L.L.L. St. Box St A



4200



4300



VIS: 52
 WT: 9.1
 WK: 9.0
 CW: 2800

15. 4g. WSI. Freq. 151. Foss

15. 4g. WSI

15. 4g. WSI. Freq. 151. Foss

15. 4g. WSI

15. 4g. WSI. Freq. 151. Foss

15. 4g. WSI. Freq. 151. Foss

15. 4g. WSI. Freq. 151. Foss

15. 4g. WSI

15. 4g. WSI. Freq. 151. Foss



15. 4g. WSI. Freq. 151. Foss

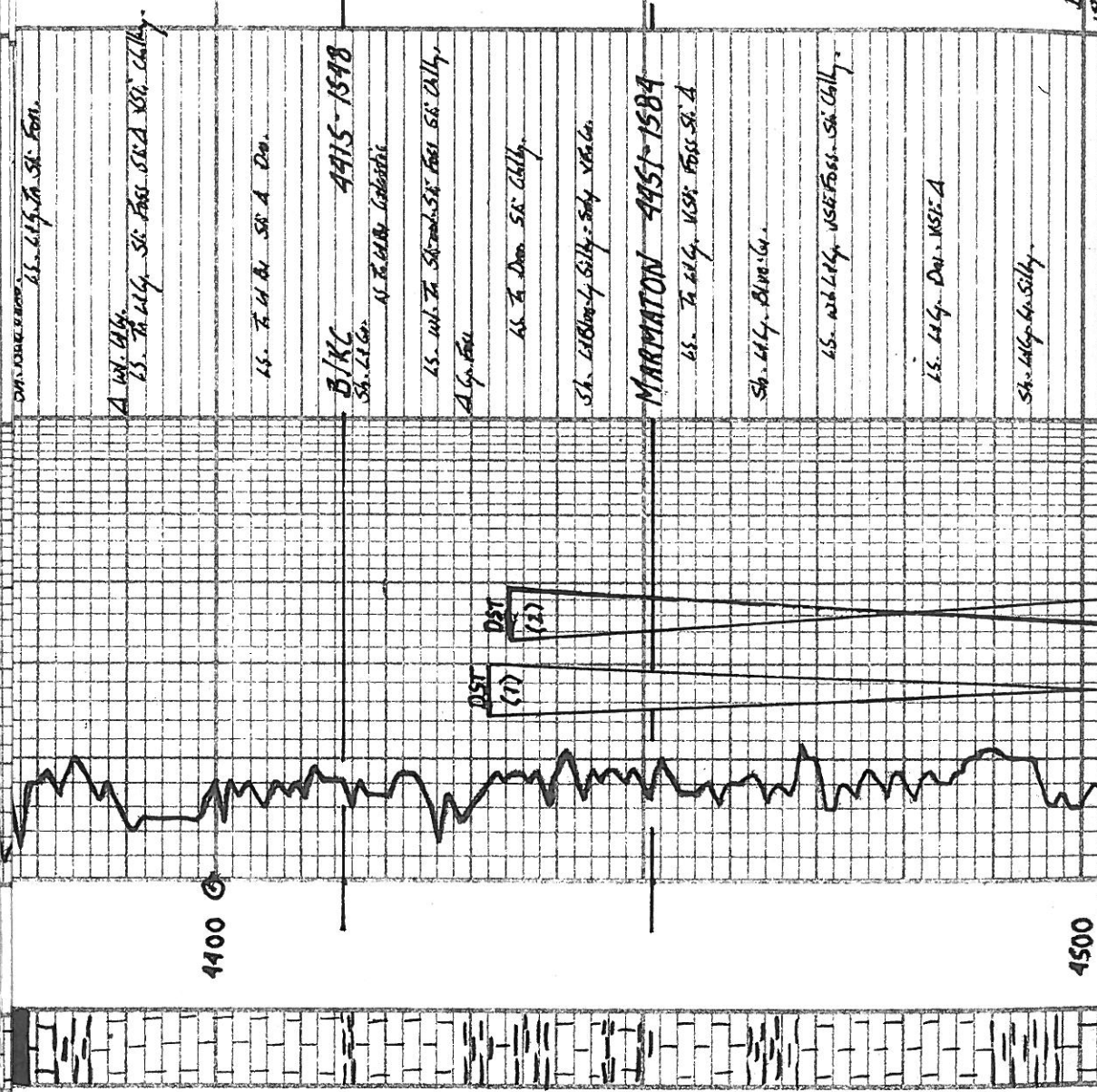
15. 4g. WSI. Freq. 151. Foss

15. 4g. WSI. Freq. 151. Foss

15. 4g. WSI. Freq. 151. Foss

15. 4g. WSI. Freq. 151. Foss

HUSHPICKNEY 4376-1509



DRILL CORE NO. 4415-1548
 65. 414. 7. Sil. Foss.

A. 414. 4. Sil. Foss. Sil. Clay
 65. 7. 4. Sil. Foss. Sil. Clay

65. 7. 4. 1. Sil. Foss. Sil. Clay

B/KC 4415-1548
 Sil. Clay

65. 7. 4. 1. Sil. Foss. Sil. Clay
 Sil. Clay

65. 7. 4. 1. Sil. Foss. Sil. Clay

65. 7. 4. 1. Sil. Foss. Sil. Clay

MARMATON 4451-1584
 65. 7. 4. 1. Sil. Foss. Sil. Clay

65. 7. 4. 1. Sil. Foss. Sil. Clay

65. 7. 4. 1. Sil. Foss. Sil. Clay

65. 7. 4. 1. Sil. Foss. Sil. Clay

65. 7. 4. 1. Sil. Foss. Sil. Clay

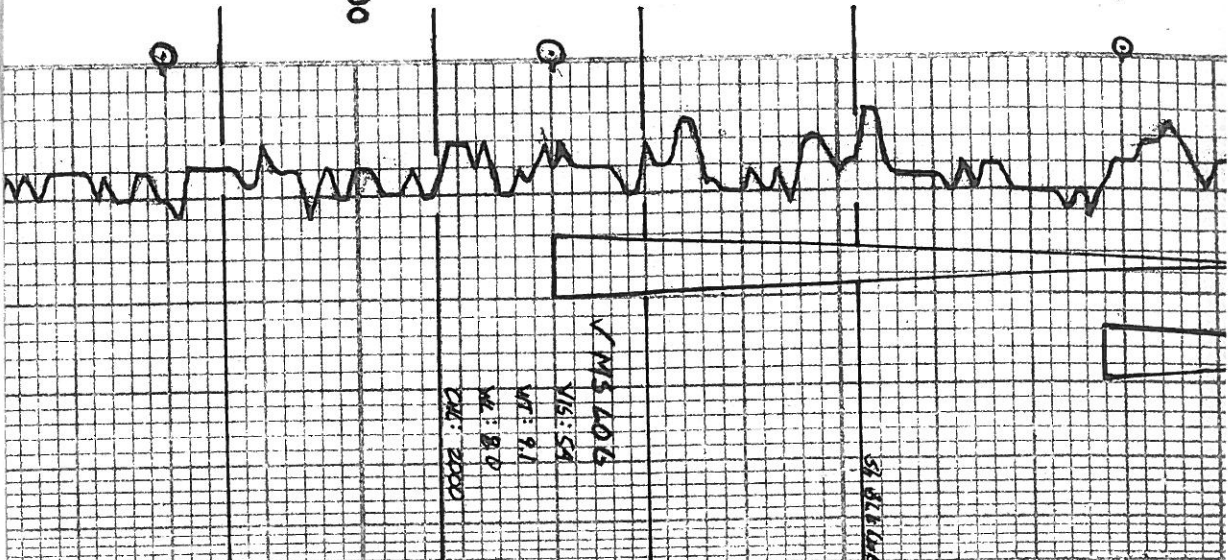
DST (1) 4432-4580
 1580 ft. - Bottom level of 4' min. 298: 6'

4100

4500



4600



✓ M5606

Wt: 9.1

Wt: 8.0

Wt: 2000

SI. BLUES PANNEE 454B-1681

16. 114g. DM.

15. 114g. SI-A

14. 114g. SI. Foss. SI. Caliche

13. 114g. SI. Foss. SI. Caliche

12. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

11. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

10. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

9. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

8. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

7. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

6. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

5. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

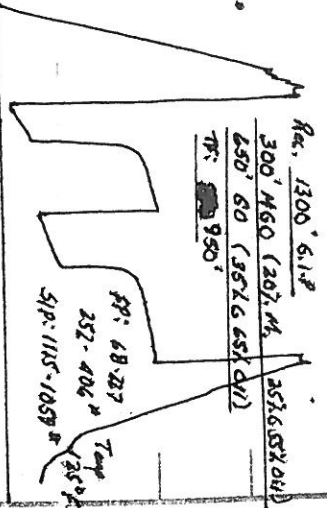
4. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

3. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

2. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

1. 114g. DM. V. 15. 114g. SI. Foss. SI. Caliche

SI. Caliche, DM.



DST (2) STRADDLE 4434 - 4522

1st 200m: Bottom bucket 4 m

88: 4°

30-120-45-180

Ru. 150' 61P

200' M60 (157M 257.6 65X DM)

740' 80 (207.6 207M)

TR 940'

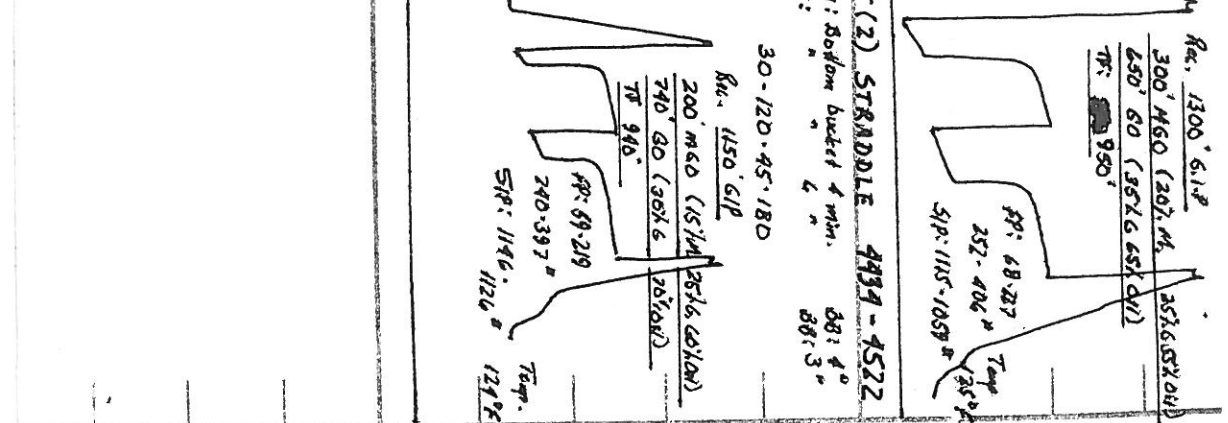
SP: 69-219

240-397'

SP: 1146'

1126'

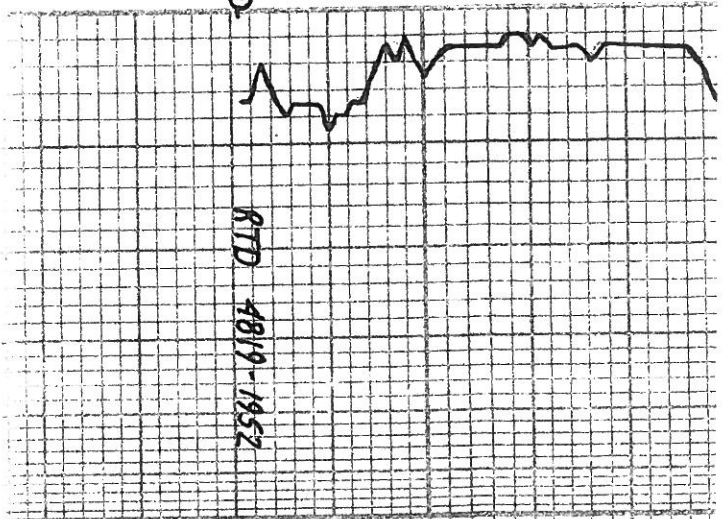
Temp. 124.9°





4800

⊙



RTD 4819-1952

Δ with by. Foss.

Del. T. U. B. V. Franklin. Sues.

15. Ru. ool. Galictha. V. S. Cully.

15. T. U. B. S. Foss. S. S. Cully.