

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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9237  
9129

TICKET NUMBER 53639  
LOCATION Oakley, KS  
FOREMAN Walt Dunkel

LD TICKET & TREATMENT REPORT  
CEMENT

Invoice # 811494 KS

PO BOX 604, Cimarron, MO 65020  
620-431-9210 or 800-467-8676

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-13-17	7158	Z. Baird #1	30	6S	35W	Thomas
CUSTOMER Raymond Oil Co.			Levant north to Red Z			
MAILING ADDRESS P.O. BOX 48788			3-West h.s.			
CITY Wichita		STATE KS	ZIP CODE 67201			
TRUCK #		DRIVER		TRUCK #		DRIVER
753		Travis Williams		566		Seth Odell
535						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 305' CASING SIZE & WEIGHT 8 5/8 - 24#  
 CASING DEPTH 305' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 15' to 20'  
 DISPLACEMENT 18 1/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 to 5 BPM

REMARKS: Safety meeting, Rig up on LD Pkg, Circ casing on bottom, mix 200 sks com, 3% cc-2% bel, Displace 18 1/4 BBL H2O. Shut in.

Cement Did Cure

Approx 3BBL to Pit

Thank You  
Walt & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
Ceo471	1	PUMP CHARGE	1,150.00	1,150.00
C00002	40	MILEAGE	7.15	286.00
Ceo711	9.40	Tax Mileage Delivery	1.25	660.00
CC5871	200 sks	Surface Blend II	23.00	4,600.00
				6,696.00
			30% Disc	-2,008.80
				4,687.20
			SALES TAX	257.60
			ESTIMATED TOTAL	4,944.80

Ravin 3737

AUTHORIZATION Rick Dale 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.



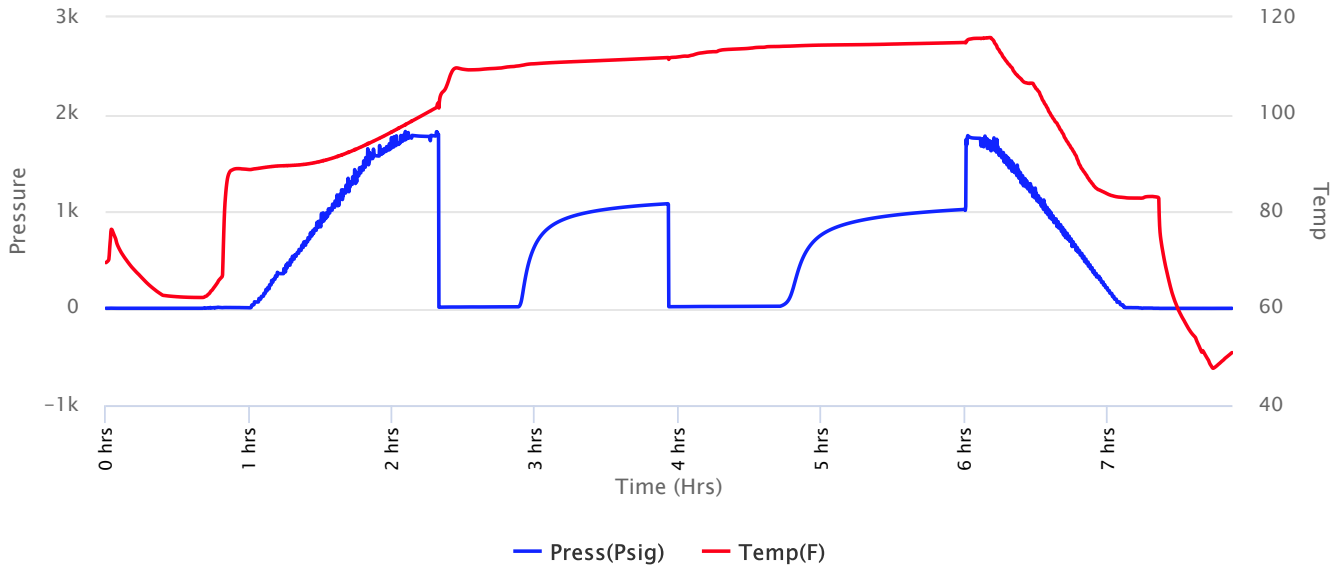
**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 Sur  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

**DATE**  
October  
**18**  
2017

**DST #1**      **Formation:**      **Test Interval: 3795 -**      **Total Depth: 3848'**  
**Wabounsee**      **3848'**  
Time On: 22:05 10/17      Time Off: 05:44 10/18  
Time On Bottom: 00:20 10/18      Time Off Bottom: 03:50 10/18

Electronic Volume Estimate: 29'	<u>1st Open</u> Minutes: 30 1.8" at 30 min	<u>1st Close</u> Minutes: 60 0" at 60 min	<u>2nd Open</u> Minutes: 45 1" at 45 min	<u>2nd Close</u> Minutes: 75 0" at 75 min
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**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 Sur  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

**DATE**  
October  
**18**  
2017

**DST #1**      **Formation: Wabounsee**      **Test Interval: 3795 - 3848'**      **Total Depth: 3848'**  
Time On: 22:05 10/17      Time Off: 05:44 10/18  
Time On Bottom: 00:20 10/18      Time Off Bottom: 03:50 10/18

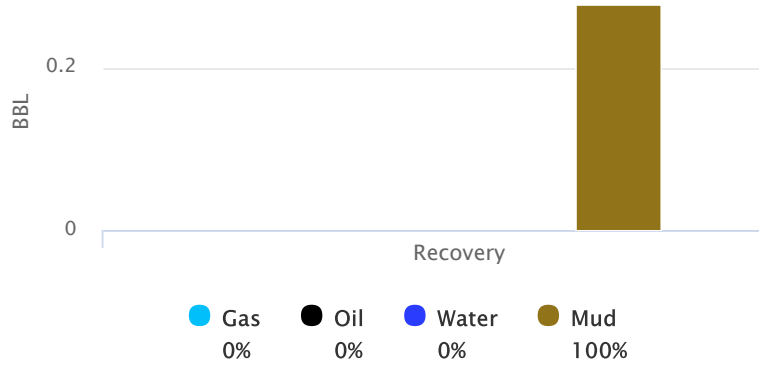
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
27	0.27702	OSM	0	0	0	100

Total Recovered: 27 ft  
Total Barrels Recovered: 0.27702

**Reversed Out**  
NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1777	PSI
Initial Flow	11 to 16	PSI
<b>Initial Closed in Pressure</b>	<b>1070</b>	<b>PSI</b>
Final Flow Pressure	16 to 21	PSI
<b>Final Closed in Pressure</b>	<b>1019</b>	<b>PSI</b>
Final Hydrostatic Pressure	1776	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	4.8	%





**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 Sur  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

<b>DATE</b> October <b>18</b> 2017
---

<b>DST #1</b>	<b>Formation:</b> <b>Wabounsee</b>	<b>Test Interval: 3795 -</b> <b>3848'</b>	<b>Total Depth: 3848'</b>
	Time On: 22:05 10/17	Time Off: 05:44 10/18	
	Time On Bottom: 00:20 10/18	Time Off Bottom: 03:50 10/18	

**REMARKS:**

- IO. WSB Built to 1 inch 30 mins
- 1C. NOBB
- 2O. WSB Built to 3/4 inch Blow
- 2C. NOBB

Tool Sample: 3%G 2%O 95% M



**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 Sur  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

<p><b>DATE</b> October <b>18</b> 2017</p>
---

**DST #1**      **Formation:**      **Test Interval: 3795 -**      **Total Depth: 3848'**  
**Wabounsee**      **3848'**  
Time On: 22:05 10/17      Time Off: 05:44 10/18  
Time On Bottom: 00:20 10/18      Time Off Bottom: 03:50 10/18

**Down Hole Makeup**

<b>Heads Up:</b> 19.38 FT	<b>Packer 1:</b> 3789.97 FT
<b>Drill Pipe:</b> 3781.78 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 3794.97 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3779.39 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 0 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 53.03	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 2 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 31.03 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 17 FT <i>4 1/2-FH</i>	





**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 Sur  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

<b>DATE</b> October <b>18</b> 2017
---

<b>DST #1</b>	<b>Formation:</b> Wabounsee	<b>Test Interval: 3795 - 3848'</b>	<b>Total Depth: 3848'</b>
	Time On: 22:05 10/17	Time Off: 05:44 10/18	
	Time On Bottom: 00:20 10/18	Time Off Bottom: 03:50 10/18	

**Mud Properties**

<b>Mud Type:</b> Chem	<b>Weight:</b> 8.6	<b>Viscosity:</b> 77	<b>Filtrate:</b> 6.8	<b>Chlorides:</b> 2400 ppm
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**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 Sur  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

<b>DATE</b> October <b>18</b> 2017
---

**DST #1**      **Formation:**      **Test Interval: 3795 -**      **Total Depth: 3848'**  
**Wabouncee**           **3848'**

Time On: 22:05 10/17      Time Off: 05:44 10/18  
Time On Bottom: 00:20 10/18      Time Off Bottom: 03:50 10/18

### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 GL  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

**DATE**  
October  
**19**  
2017

**DST #2 Formation: Altamont B Test Interval: 4397 - 4465' Total Depth: 4465'**

Time On: 19:34 10/19      Time Off: 04:25 10/20  
Time On Bottom: 22:08 10/19      Time Off Bottom: 01:38 10/20

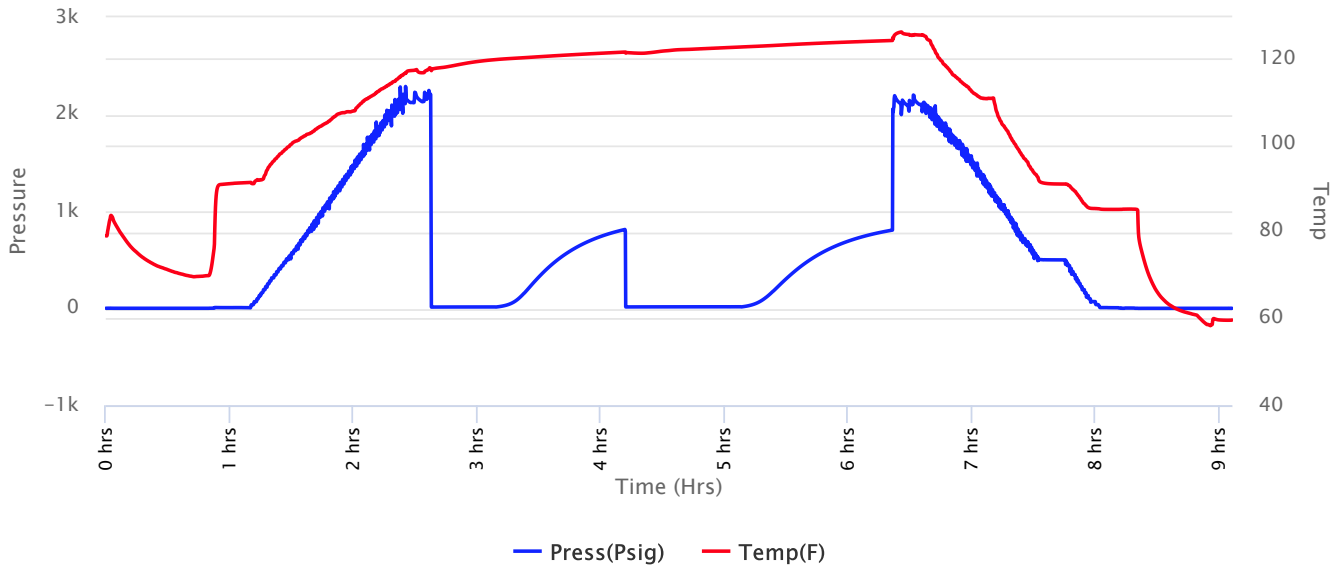
Electronic Volume  
Estimate:  
13'

1st Open  
Minutes: 30  
1.1" at 30 min

1st Close  
Minutes: 60  
0" at 60 min

2nd Open  
Minutes: 45  
0" at 45 min

2nd Close  
Minutes: 75  
0" at 75 min







**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 GL  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

<b>DATE</b> October <b>19</b> 2017
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**DST #2 Formation: Altamont Test Interval: 4397 - Total Depth: 4465'**  
**B 4465'**

Time On: 19:34 10/19 Time Off: 04:25 10/20  
Time On Bottom: 22:08 10/19 Time Off Bottom: 01:38 10/20

**REMARKS:**

IO. WSB Built to 3/4 inch  
IC. NOBB  
2O. NO BLOW  
2C. NOBB

Tool Sample: 100 % M





**Company: Raymond Oil Company, Inc**  
**Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3278 GL  
 Field Name: LD  
 Pool: Pool Ext  
 Job Number: 62

**DATE**  
 October  
**19**  
 2017

<b>DST #2</b>	<b>Formation: Altamont</b>	<b>Test Interval: 4397 -</b>	<b>Total Depth: 4465'</b>
	<b>B</b>	<b>4465'</b>	
Time On: 19:34 10/19		Time Off: 04:25 10/20	
Time On Bottom: 22:08 10/19		Time Off Bottom: 01:38 10/20	

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.3      **Viscosity:** 67      **Filtrate:** 9.6      **Chlorides:** 5000 ppm







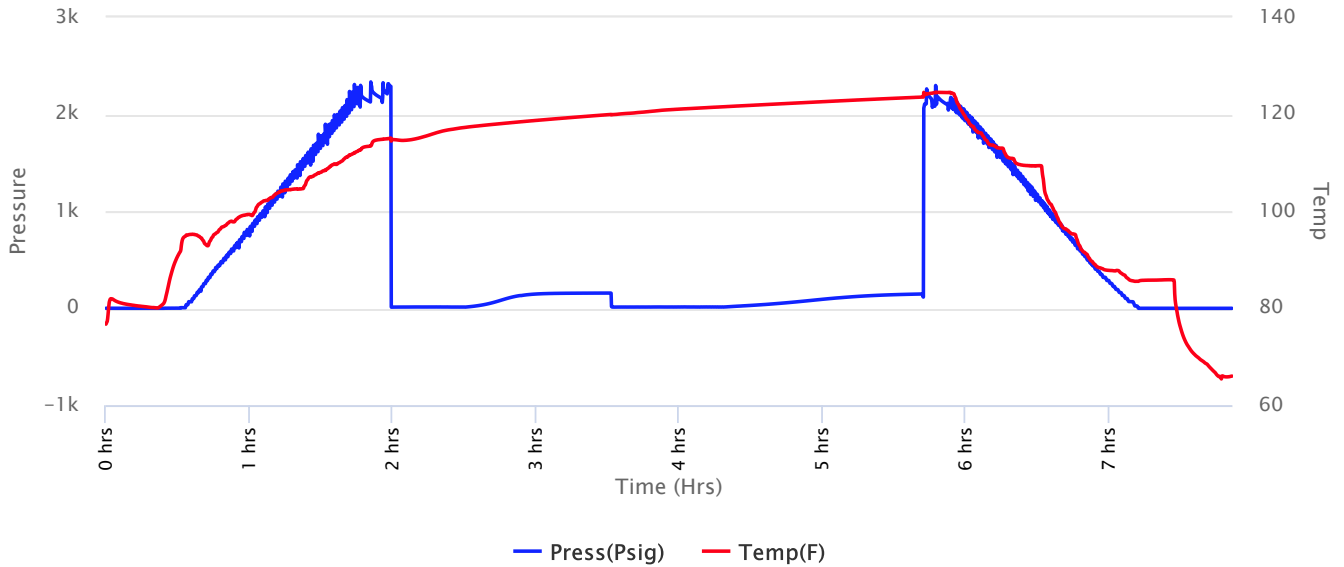
**Company: Raymond Oil Company, Inc**  
**Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 3278 GL  
 Field Name: LD  
 Pool: Pool Ext  
 Job Number: 62

**DATE**  
 October  
**20**  
 2017

**DST #3 Formation: Altamont C Test Interval: 4464 - 4485' Total Depth: 4485'**  
 Time On: 15:47 10/20 Time Off: 22:25 10/20  
 Time On Bottom: 00:00 01/01 Time Off Bottom: 20:13 10/20

Electronic Volume Estimate:	<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
18'	Minutes: 30	Minutes: 60	Minutes: 45	Minutes: 75
	1" at 30 min	0" at 60 min	.5" at 45 min	0" at 75 min





# Company: Raymond Oil Company, Inc

## Lease: Z. Baird #1

SEC: 30 TWN: 6S RNG: 35W  
 County: THOMAS  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 3278 GL  
 Field Name: LD  
 Pool: Pool Ext  
 Job Number: 62

<b>DATE</b>
October
<b>20</b>
2017

DST #3 Formation: Altamont C Test Interval: 4464 - 4485' Total Depth: 4485'

Time On: 15:47 10/20 Time Off: 22:25 10/20  
 Time On Bottom: 00:00 01/01 Time Off Bottom: 20:13 10/20

Recovered

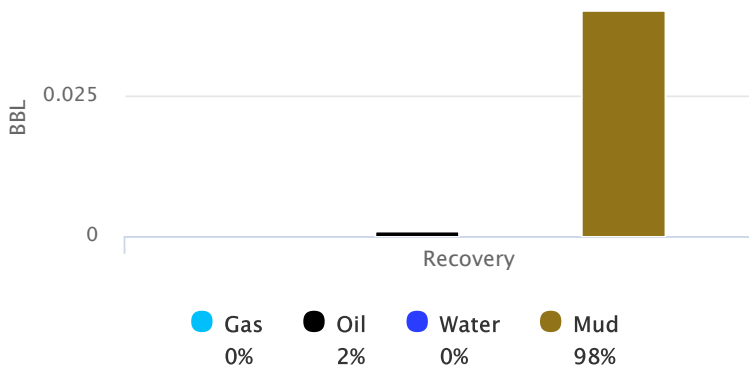
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
4	0.04104	SLOCM	0	2	0	98

Total Recovered: 4 ft  
 Total Barrels Recovered: 0.04104

Reversed Out
NO

Initial Hydrostatic Pressure	2128	PSI
Initial Flow	12 to 12	PSI
<b>Initial Closed in Pressure</b>	<b>156</b>	<b>PSI</b>
Final Flow Pressure	13 to 13	PSI
<b>Final Closed in Pressure</b>	<b>148</b>	<b>PSI</b>
Final Hydrostatic Pressure	2121	PSI
Temperature	124	°F
Pressure Change Initial Close / Final Close	5.7	%

**Recovery at a glance**





**Company: Raymond Oil**

**Company, Inc**

**Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W

County: THOMAS

State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 3278 GL

Field Name: LD

Pool: Pool Ext

Job Number: 62

<p><b>DATE</b> October <b>20</b> 2017</p>
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<b>DST #3</b>	<b>Formation: Altamont</b>	<b>Test Interval: 4464 -</b>	<b>Total Depth: 4485'</b>
	<b>C</b>	<b>4485'</b>	

Time On: 15:47 10/20

Time Off: 22:25 10/20

Time On Bottom: 00:00 01/01

Time Off Bottom: 20:13 10/20

**REMARKS:**

1O. WSB Built to 3/4 inch.

1C. NOBB

2O. WSB Built to 1/4 inch.

2C. NOBB

Tool Sample: 10 % O 90% M











**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 GL  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

**DATE**  
October  
**21**  
2017

**DST #4      Formation: Pawnee      Test Interval: 4498 - 4540'      Total Depth: 4540'**

Time On: 07:40 10/21      Time Off: 15:38 10/21  
Time On Bottom: 10:59 10/21      Time Off Bottom: 13:29 10/21

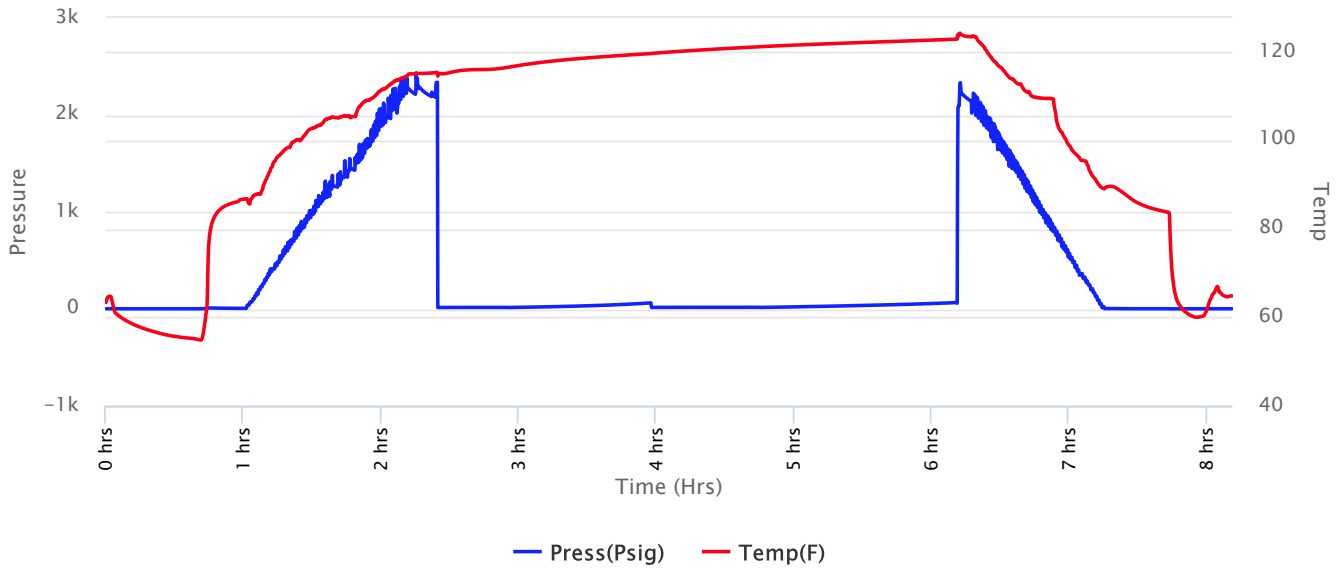
Electronic Volume  
Estimate:  
9'

1st Open  
Minutes: 30  
.7" at 30 min

1st Close  
Minutes: 60  
0" at 60 min

2nd Open  
Minutes: 45  
0" at 45 min

2nd Close  
N/A





**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 GL  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

**DATE**  
October  
**21**  
2017

**DST #4      Formation: Pawnee      Test Interval: 4498 - 4540'      Total Depth: 4540'**

Time On: 07:40 10/21      Time Off: 15:38 10/21  
Time On Bottom: 10:59 10/21      Time Off Bottom: 13:29 10/21

Recovered

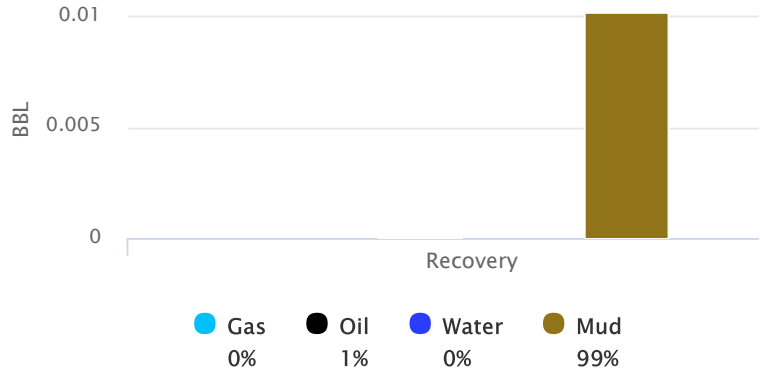
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1	0.01026	SLOCM	0	1	0	99

Total Recovered: 1 ft  
Total Barrels Recovered: 0.01026

Reversed Out  
NO

Initial Hydrostatic Pressure	2212	PSI
Initial Flow	12 to 14	PSI
<b>Initial Closed in Pressure</b>	<b>60</b>	<b>PSI</b>
Final Flow Pressure	13 to 15	PSI
<b>Final Closed in Pressure</b>	<b>64</b>	<b>PSI</b>
Final Hydrostatic Pressure	2214	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**





**Company: Raymond Oil  
Company, Inc  
Lease: Z. Baird #1**

SEC: 30 TWN: 6S RNG: 35W  
County: THOMAS  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 GL  
Field Name: LD  
Pool: Pool Ext  
Job Number: 62

<p><b>DATE</b> October <b>21</b> 2017</p>
---

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**4540'**

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**REMARKS:**

- 1O. WSB Built to 1/2 inch
- 1C. NOBB
- 2O. NO BLOW
- 2C. NOBB

Tool Sample: 100% M



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**Down Hole Makeup**

<b>Heads Up:</b> 33.17 FT	<b>Packer 1:</b> 4493 FT
<b>Drill Pipe:</b> 4498.6 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4498 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4482.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4500 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 42	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 41 FT <i>4 1/2-FH</i>	



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State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 GL  
Field Name: LD  
Pool: Pool Ext  
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<b>DATE</b> October <b>21</b> 2017
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**DST #4      Formation: Pawnee      Test Interval: 4498 -      Total Depth: 4540'**  
**4540'**

Time On: 07:40 10/21      Time Off: 15:38 10/21  
Time On Bottom: 10:59 10/21      Time Off Bottom: 13:29 10/21

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.3      **Viscosity:** 59      **Filtrate:** 11.2      **Chlorides:** 6000 ppm



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Company, Inc  
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SEC: 30 TWN: 6S RNG: 35W  
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State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 3278 GL  
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<b>DATE</b>
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<b>21</b>
2017

**DST #4      Formation: Pawnee      Test Interval: 4498 -      Total Depth: 4540'**  
**4540'**

Time On: 07:40 10/21      Time Off: 15:38 10/21  
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**Gas Volume Report**

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

KIM B. SHOEMAKER

CONCRETE SOLUTIONS  
18-06-2008 MIDLAND

CONCRETE'S REPORT

DATE: 10-23-17

RAYMOND OIL COMPANY, INC.

#1 Z. BAIRD

L D

953' FSL & 2299 FEL

30 66 35W

THOMAS KANSAS

L.D. DRILLING, Inc.

10-13-17 10-23-17

4814 4814

3535 CHEMICAL

3500 4814

3500 4814

3500 4814

3700 4814

KIM B. SHOEMAKER

2882 + 401 2886 + 397

2920 + 363 2923 + 360

3788 - 505 3789 - 506

4095 - 812 4094 - 811

4140 - 863 4142 - 859

4403 - 1120 4401 - 1118

4521 - 1238 4519 - 1236

4588 - 1305 4587 - 1304

4617 - 1334 4619 - 1336

4774 - 1491 4767 - 1484

30

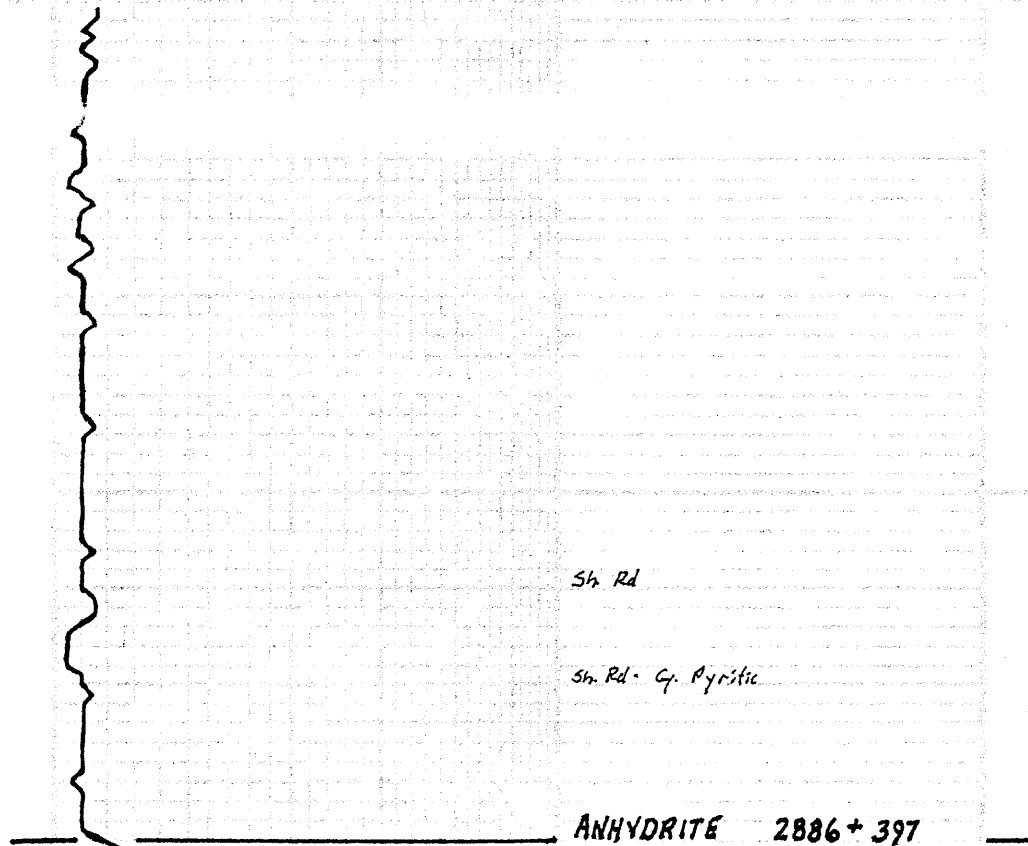
API: 15-193-21002

- 10-13-17 SPUD
- 10-14 @ 537'
- 10-15 @ 2223'
- 10-16 @ 3055'
- 10-17 @ 3550'
- 10-18 @ 3848'
- 10-19 @ 4355'
- 10-20 @ 4465'
- 10-21 @ 4510'
- 10-22 @ 4752'
- 10-23 @ 4814'

15020



2800



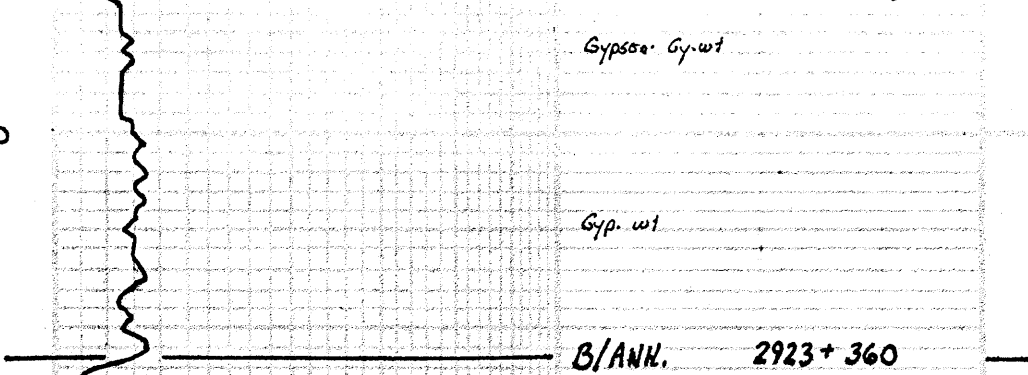
Sh. Rd.

Sh. Rd. - G. Pyritic

**ANHYDRITE 2886 + 397**

Gypso. Gy. wt

2900



Gyp. wt

**B/ANH. 2923 + 360**

Sh. Rd.

3000

3500

3600

Samples are Logged

Sd. 11 G. Fr Co Sub Rd

Sh. Rd Silty

LS wt Sil Foss Sil A

Sh. Rd.

LS 11 G. VSI: Foss.  
A Br Orange

LS Th Micro: Foss Sil A

LS. Th G. Sil Foss

VIS: 77  
WT: 8.6  
WL: 6.8  
CNL: 2400

LS. wt G. Sil Foss: Foss.

LS. 11 G. Fr Co Sil Foss.

LS. Th G. Sil Foss

3700

Sh. Rd.

Sdy sh. Lt G.

LS. To Bl Foss.

Sh. Rd.

LS. To G. Sil Foss.

Sh. Rd.

LS. Lt G. V. Foss. St. Foss. 'Vuggy'

Sh. Purple

Sh. G. Silly.

LS. Bl G. St. Foss.

STOTLER 3789-506

LS. To Sil Foss.

Dol. Bl. V. Foss. Suc. P. P. P. P. P.  
Bl. Sil. Stal. G. S. F. 'Bleeding Oil', Fr. Odor

Sh. Rd.

LS. To Bl V. Sil Foss.

LS. To G. Foss. w/ Blk. D. Bl. St. V. S. F. D.  
V. P. Odor

Sh. Rd.

LS

LS. To Bl. Sil. Foss. D. Bl. St. To F. D. No odor

Sh. Rd. Cu.

LS. To V. Sil Foss. Sil. Chilly

3800

DST  
(12)

VIS: 73  
WT: 8.8  
WE: 6.4  
CUL: 4000

DST (1) 3795-3818

1ST OPEN: Blow bit to 11"  
2ND OPEN: " " " 34"

30-60-45-75

Rec. 27' Mud

FP: 11-16 16-21"

SIP: 1070-1019" Temp. 115°F

Total Sample:

37.6, 27.0, 95.1 Mud



3900

4000

LS. Tan. Sl. A. V. St. Foss.

Sh. Rd.

LS. Gy. Purple shly.

LS. wt. Slid. Sl. Calcitic

LS. wt. Sl. Foss. Sl. A.

LS. Lt. Gy. Sl. Foss.

Sh. Rd.

Sd. Sdy. Lt. Gy. V. Fa. G. Sub. Rd.

Sh. Rd. Sdy. Md. G. Sub. Rd.

LS. wt. Foss. Sdy. V. Fa. G. Sub. Rd.

LS. Lt. Gy. V. Fa. sh. Svc.

LS. wt. Foss. Calcitic

Dob. Lt. Gy. V. Fa. sh. Svc.

Sh. Rd. Sdy.

LS. Rd. V. St. Foss.

Sh. Rd.

LS. Rd. Gy. V. St. Foss.

Lt. G. Sdy.

Sh. Rd. Sily.

LS. Tan. wt. Sh. Foss. Sl. A.

Sh. Lt. G.

LS. Tan. Lt. Gy. V. St. Foss. Sl. Chly.

LS. wt. V. St. Foss. Chly.

4100

LS. Ltg. VSh. Foss. Shi A  
**HEEBNER 4094-811**  
Sh. Blk. Carb.

LS. wt. Foss. Sub.

Sh. Ltg.

Sh. Ltg. Mid. Foss. Sub. Rd.

Sh. Rd.

LS. wt. Foss. VSh. Calcitic VSh. A

Sh. Rd.

**LANSING 4192-859**

LS. Ltg. Shi. Foss.

LS. wt. Shi. Foss. Foss. Pr. Vg. p. Tr. Blk. Terry SW

Sh. Rd. Silty. Sdy.

LS. Ltg. VSh. Foss.

Sh. Rd.

Δ Orange

LS. wt. Foss. Shi. Chly.

LS. wt. VSh. Foss. Shi. Chly.

Sh. Rd.

Sh. Rd.

LS. wt. Shi. Foss. Shi. Calcitic

LS. To Lg. Shi. Foss. Shi. A VSh. Calcitic

LS. wt. Shi. Foss. Shi. Chly.

4200

**MUNKIE CREEK 4271-988**  
Sh. Blk.

Sh. Rd.

LS. wt. Ltg. Shi. Foss.

LS. wt. VSh. Foss. Shi. Chly.

TORONTO

V L04

V L06



4300

Sh. DKg.

LS. Tan. VSh Foss. P. Vis. p.  
Sed Bl DKBl dd SH.

Sh. Rd

LS. wl. Sh Foss. Sil. A

LS. wl. Foss. Sil. A. Sil. Calcitic

**STARK 4343-1060**

Sh. Rd.

LS. Tan. Vg. VSh. Foss.

VIS: 67

Sh. DKg.

WT: 93

Sh. Lt. Blue. Gy.

WL: 9.6

CNL: 5000

LS. Ltg. Sil. Foss.

4400

DST

(2)

**B/KC 4401-1118**

Sh.

VLOG

**MARMATON 4412-1129**LS. Tan. Foss. P. Vis. p.  
DK Bl. BLE. SH. SSED. No. odor.

Sh. DE. Rd.

**ALTAMONT 4435-1152**

VLOG

Sh. Lt. Rd.

LS. Gy. VSh. Foss.

**ALTA. 'B' 4458-1175**

Sh. Rd.

DST

(3)

VIS: 51

WT: 9.1

Coaral. Colonial. Corral. Clr. Foss. Mat. Clr.  
LS. Tan. Foss. Calcitic No. odor

WL: 8.8

CNL: 5200

Sh. Rd. Lt.

**ALTA. 'C' 4479-1191**LS. Tan. Foss. Col. P. Vis. p.  
Bl. Sp. H. Sat. SH. VSSFO  
LS. Tan. Sil. Foss. Sil. A. P. Vis. p. No. odor  
DK Bl. SH. VSSFO. Dull. Fluor.

LS. Ltg. VSh. Foss.

4500

DST

(4)

Sh. Rd. Lt.

**DST (2) 4397-4465**1<sup>st</sup> OPEN: Blow built to 3/4"2<sup>nd</sup> OPEN: No Blow

30-60-45-75

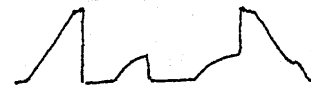
Rec. 5' Mud

FP: 12-14 14-16"

SID: 813-806 \* Temp. 124° F

Tool Sample:

100% Mud

**DST (3) 4469-4485**1<sup>st</sup> OPEN: Blow Built to 3/4"2<sup>nd</sup> OPEN: " " " 1/4"

30-60-95-75

Rec. 4' VSOEM (2% Oil, 98% M)

FP: 12-12 13-13"

SID: 156-148 \* Temp. 124° F

Tool Sample:

10% Oil 90% Mud

**DST (4) 4498-4540**1<sup>st</sup> OPEN: Blow built to 1/2"2<sup>nd</sup> OPEN: No Blow

30-60-15-75

FP: 12.4 13.15"  
 SIP: 60.64\* Temp. 123°F

Tool Sample:  
 100% Mod



Sh. DK G. L.  
**PAWNEE 4519-1236**

LS. wt. Tn. Sh. Foss. P. Vis.  $\phi$   
 Blk. DK Bl. dd. STM. SS Fo. Fr. Cl. Floor  
 No odor

LS. Tn. L. Sh. Foss. col. No Vis.  $\phi$   
 Bl. Spd. STM. SS Fo. Full Flow No odor

VIS: 59 WT: 9.3  
 WL: 11.2 CML: GOOD

Sh. BLK  
 A. wt. L. G.  
 LS. Tn. wt. Foss. Calcitic

Sh. L. G.  
 LS. Bl. G. Sh. Foss.

Sh. Blk Calc.  
**FORT SCOTT 4587-1309**

LS. Tn. V. Sh. Foss. w/ G. A Bands

A. wt. L. G. LS. Tn. Sh. Calcitic

LS. wt. Sh. Foss. Sh. Calcitic

A. Blk. DK G.

**CHEROKEE 4619-1336**  
 Sh. Blk Calc.

A. DK Bl. Blk. Sh. Foss.

LS. L. G. Dar.

LS. wt. L. G. V. Sh. Calcitic

LS. wt. Sh. Foss. Sh. A V. Sh. Calcitic

Sh. L. G.

LS. wt. L. G. V. Sh. Foss

A. wt. Tn. Bl.

LS. Tn. Bl. wt. Sh.

Sd. Cl. G. Md. Calc. Sub. Rd.

Sh. Bl. G.

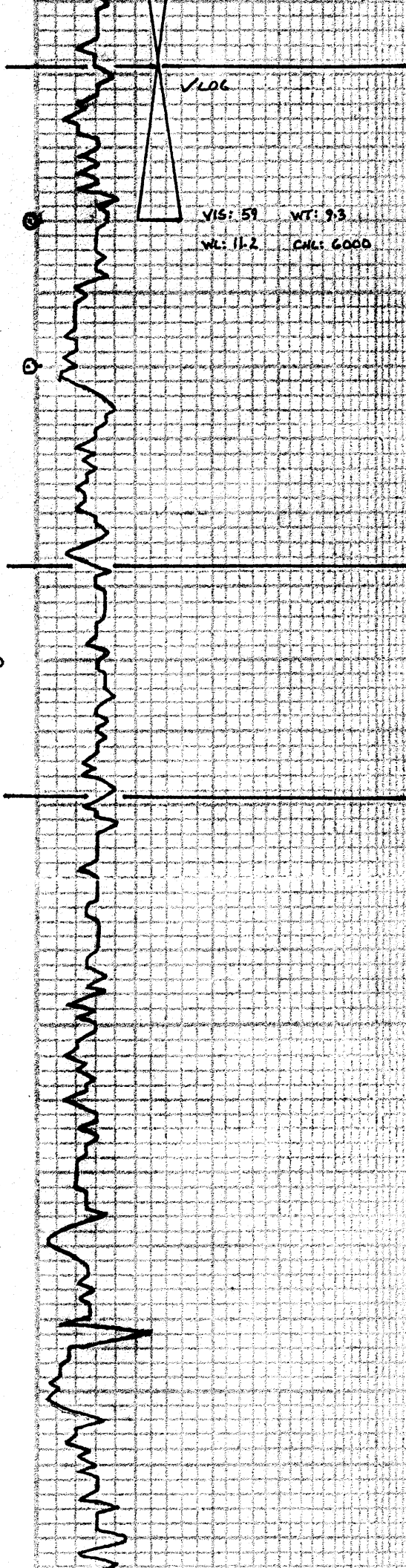
Sd. Cl. G. Md. Calc. Rd. Sub. Rd.

Sh. Rd. L. G.

Sh. Rd. Purple-Yellow

4600

4700



Sd. Cl. wt. Md. Co. Li. Rd. Sub. Rd.

Sh. Purple G. Yellow

Δ To Orange Weathered

Sh. Turq. Yellow Maroon

**MISSISSIPPI 4767-1484**

Sd. Cl. Li. Md. Sub. Rd.

Sh. Maroon Yellow Li.

Dol. G. Fossil. Sue.

LS. Rd. G. V. Sl. Fossil.

Dol. Li. G. V. Fossil. Sue.

LS. To Sl. Fossil. Sl. Δ

Dol. Li. G. Fossil.

4800

**RTD 4814-1531**

V. L. 06

