

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. 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
--	---

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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	--	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Raymond Oil Company, Inc.
Well Name	FRUSHER 1
Doc ID	1466933

All Electric Logs Run

Micro
Comp N/D
Dual Ind
Sonic





111V401145



100802  
40997

TICKET NUMBER 53673 ✓  
LOCATION Oakley, KS  
FOREMAN Jimmie Cottrell  
Walt Dinkel  
Cory Davis KS

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
7-21-19	7158	Frusher #1	09	215	23W	Hodgeman

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Raymond Oil Co	753	Alex	1098	Walt
	566	Matydi	703	Cory D.
	T-129	Ksleb		
	697	Jimmie		

MAILING ADDRESS: PO BOX 48788  
CITY: Wichita, STATE: KS, ZIP CODE: 67201  
JOB TYPE: Long string DV Tool, HOLE SIZE: 7 7/8, HOLE DEPTH: 5020, CASING SIZE & WEIGHT: 5 1/2 15.5#  
CASING DEPTH: 5020, DRILL PIPE: \_\_\_\_\_, TUBING: \_\_\_\_\_, OTHER DV Tool @ 1537  
SLURRY WEIGHT: 14.2/12.5, SLURRY VOL: \_\_\_\_\_, WATER gal/sk: \_\_\_\_\_, CEMENT LEFT in CASING: \_\_\_\_\_  
DISPLACEMENT: 118.5/30 1/2, DISPLACEMENT PSI: \_\_\_\_\_, MIX PSI: \_\_\_\_\_, RATE: \_\_\_\_\_

REMARKS: safety meeting Rig up on 4-D Run Float Equipment Circ casing on Bottom Pump 500 gal Mud Flush mix 175 sks Thixoblend III wash pump; Lines Release plug Displace 78 bbls H2O; 40 bbls mud @ 900 land plug @ 1600 Release Pressure Float. Held open DV Tool and Circ

Mix 30 sks in Rathole mix 370 sks down casing wash pump; Lines Displace 37 bbl H2O Plug landed @ 1800 Release pressure to check Tool closing  
Lost Circ Stopped @ 20 bbls Cement Did not Circ  
Wait 10 min, continued pumping Thank You Landed Plug @ Pump rest of Displacement, slight Returns Jimmie: Crow 1800# Held

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
✓ CE0453	1	PUMP CHARGE	2800.00	2800.00
✓ CE0002	30	MILEAGE	7.15	214.50
✓ CE0710	25.43 (7162.86)	Ton Mileage Delivery	1.75	1335.00
Silco ✓ CE5862	175 sks	Thixoblend III	26.00	4550.00
✓ CE1077	875 #	Kal Seal	.50	437.50
Silco ✓ CE5831	400 sks	Light weight Blend VII	17.50	7000.00
✓ CE4075	100 #	Flaseal	3.00	300.00
Silco ✓ CE6125	500 gal	Mud Flush	.65	325.00
✓ CP8485	1	5 1/2 AFU Float Shoe	585.00	585.00
✓ CP8254	1	5 1/2 Latch Down Plug Assembly	400.00	400.00
✓ CP8576	13	5 1/2 Tubbalizers	110.00	1430.00
✓ CP8629	3	5 1/2 Baskets	385.00	1155.00
✓ CP8801	1	5 1/2 DV Tool	5970.00	5970.00
				26,502
			-25% Discount	6625.50
				19876.50
			SALES TAX	1271.00
			ESTIMATED TOTAL	21,147.50 ✓

AUTHORIZATION: JEFF CRAWFORD ✓ TITLE: BCS 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. SHOENMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY **RAYMOND OIL COMPANY, INC.**

LEASE **\* 1 FRUSHER**

FIELD **WILDCAT**

LOCATION **1961' FWL # 1122' FEL**

SEC **9** TWP **21S** RGE **23W**

COUNTY **HODGEMAN** STATE **KANSAS**

CONTRACTOR **L. D. DRILLING, INC.**

SPUD **7-9-19** COMP **7-20-19**

RTD **4600 5020** LTD **5020**

MUD UP **3594** TYPE MUD **CHEMICAL**

SAMPLES SAVED FROM **3100** TO **4600 5020**

DRILLING TIME KEPT FROM **3400** TO **4600 5020**

SAMPLES EXAMINED FROM **3400** TO **4600 5020**

GEOLOGICAL SUPERVISION FROM **3700** TO **4600 5020**

GEOLOGIST ON WELL **KIM B. SHOENMAKER**

ELEVATIONS

KB **2304**

DF

CL **2299'**

Measurements are all  
FROM **2304 LB**

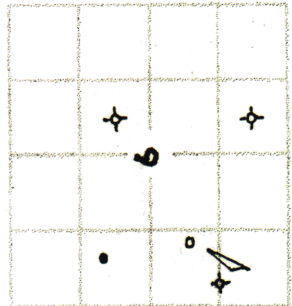
CASING SURFACE **8 5/8" @ 260'**

PRODUCTION **5 1/2" @**

ELECTRICAL SURVEYS

Dura IWB, DENIS-N. MICARD,  
SONIC

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1504 + 800	1507 + 787
HEBERNER	3808 - 1504	3810 - 1506
LANSING	3840 - 1556	3842 - 1558
B/KC	4194 - 1890	4196 - 1892
MARMATON	4233 - 1929	4231 - 1927
PAWNEE	4312 - 2008	4314 - 2010
FORT SCOTT	4382 - 2078	4383 - 2079
CHEROKEE	4406 - 2102	4407 - 2103
MISSISSIPPI	4473 - 2169	4474 - 2170
VIOA	4734 - 2430	4733 - 2429
ARBUCKLE	4964 - 2660	4964 - 2660



### REMARKS

- 7-9-19 SPUD 7-21 @ 5020
- 7-10 @ 262'
- 7-11 @ 1675'
- 7-12 @ 2509'
- 7-13 @ 2990'
- 7-14 @ 3490'
- 7-15 @ 4035'
- 7-16 @ 4365'
- 7-17 @ 4452'
- 7-18 @ 4486'
- 7-19 @ 4494'
- 7-20 @ 4447'

API: 15-083-21969

### LEGEND





LITHOLOGY

DRILLING TIME IN MINUTES  
 PER FOOT  
 Rate of Penetration increases



5"    10"    15"    20"    25"

DEPTH  
1450

SAMPLE DESCRIPTIONS

REMARKS

1500

ANHYDRITE 1507 + 797

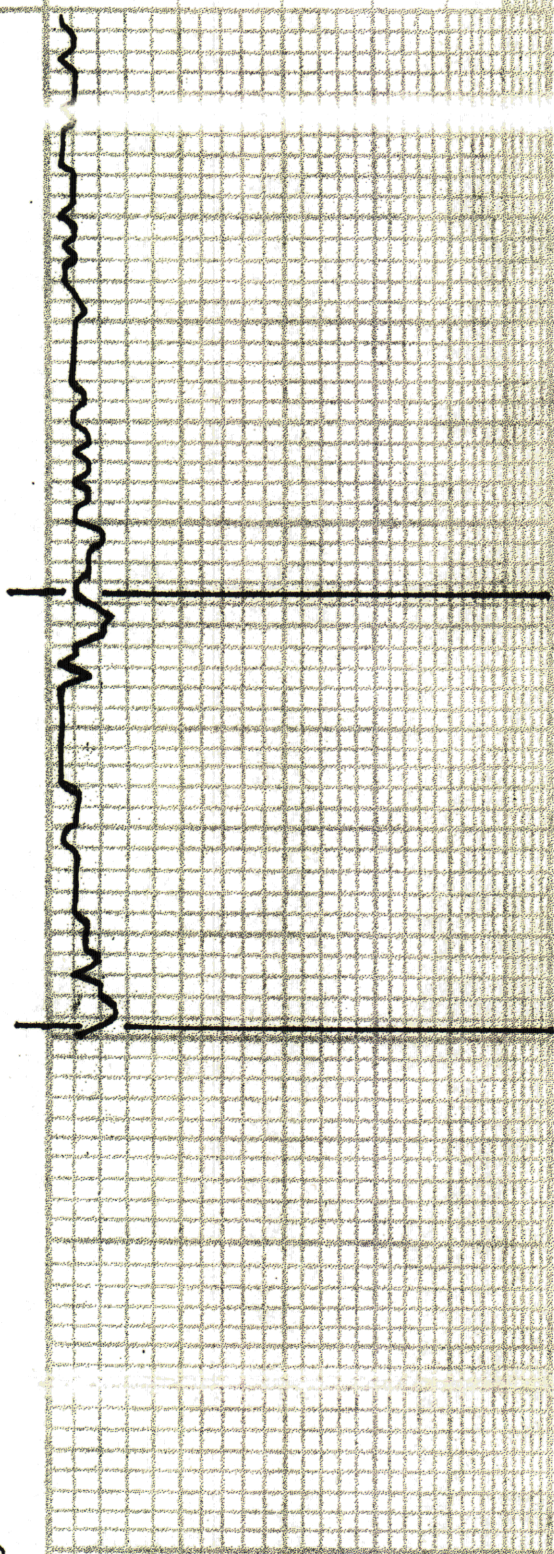
1550

B/ANN. 1549 + 755

3400

Samples are Lagged

is to high. VSI Foss.





Sh. Llg.

Sh. Llg. Silly.

ls. To Foss.

ls. To wt. VSI. Foss VSI. Δ

ls. wt. Foss chly.

ls. wt. ool. Foss Si chly.

ls. Cy. VSI. Foss.

ls. To Llg. Foss Calcitic

ls. wt. Llg. Sh. ool. - ool.  
Δ To wt.

DISPLACED @ 3594

ls. To Llg. ool. Sh. chly.

Sh. Olg.

3500

3600

sh. Lly.

ls. T. wt. VSI. Foss. VSI. A

ls. Lly. Foss.

ls. T. Foss. Calcitic

sh. Blue. Gf.

ls. T. Sli. Foss.

ls. T. Sli. Foss. VSI. A

3700

ls. wt. T. Foss. ool. calcitic VSI. Chly.

ls. T. wt. ool. Foss.

ls. wt. ool. Foss. chly.

ls. T. Gf. St. Foss.

ls. T. wt. Gf. Foss. chly.

3800

HEBNER

3810-1506

sh. Blk. Calc.

Sh. Blue Gr.

LS. Tan St. Δ

LS. wt. St. Foss - Foss St. Δ

Sh. Rd.

V LOG

LANSING 3862-1558

LS. Tan wt St. Foss St. Δ

Sh. Lt. G. Gr.

LS. wt. Tan Foss Calcitic

Δ wt.

3900

Sh. Rd. Blue Gr.

LS. wt. St. Foss St. Δ VSI Calcitic

LS. Tan Lt. St. Foss VSI Δ

Sh. Dk. Blk

Sh. Lt. Blue

Δ Orange

LS.

Sh. Blue Gr.

LS. wt. chly.

LS. Gy. St. ool. ooc.

LS. wt. Lt. G. ool. St. chly.

4000

LS. wt. VSI Foss chly.

LS. Lt. Gy. VSI Δ

1206

W.L. B. 4 C.W. 3600

Ls. Gy. VSi: A

**MUNCIE CREEK 1031-1727**

Sh. Blk Ls. Br. VSi: Foss.

Sh. Lt Blue-Gy.

Ls. Lt Gy. wt. VSi: Foss Si: A  
A wt.

Ls. Tan wt. Si: A

Sh. Dk Gy.

Ls. Lt Gy. VSi: chly.

Ls. Tan wt. Si: chly.

Sh. Blue-Gy.

Ls. Br. Dk Gy. VSi: Foss.

4100

Sh. Lt Blue.

Ls. Lt Gy. ool. Si: chly.

Ls. Tan. Foss. Si: Foss chly.

**STARK 4122-1818**

Sh. Blk Carb.

Sh. Lt Gy.

Ls. wt. Foss. Si: Foss. Colostic

Ls. Tan wt. VSi: Foss. Si: chly.

**HASHPOCKNEY 4161-1857**

Sh. Blk Carb.

Sh. Gy.

Ls. Tan wt. Si: Foss.

Ls. Tan Lt Br. VSi: Foss. Si: A

4200

**B/KC 4196-1892**

Sh. Lt Gy.

Sh. Lt Blue

Ls. Br. Si: A

Sh. Lt Purple. Silty

Ls. wt. ool. Si: A

Sh. Lt Blue Gy. Silty

**MARMATON 4231-1927**

LS. G. VSi. Foss. Si. A

Sh. Lt. Bl. c.

LS. Ta. G. VSi. Foss. Si. A  
sh. Lt. c.

LS. Ta. w/ VSi. Foss. VSi. ch. L.

Sh. G. Silty.

LS. Ta. w/ VSi. A

Sh. G. Lt. G.

LS. Ta. VSi. Foss. Si. A

sh. Lt. G.

**PAWNEE 4314-2010**

LS. Ta. Si. A

LS. G. VSi. Foss. Si. A

LS. G. Silty.

LS. Dk. G. Silty

Sh. Blk. Carb.

**FORT SCOT 4383-2079**

LS. Ta. w/ Sp. Foss. Si. A. Sh. Calcitic. P. Va. D.  
VSi. Bl. Sh. Ta. Fo. Gd. Flow. No. odor.

LS. W. Lt. G. Sp. Foss. Sh. Calcitic. Si. A

LS. Ta. Bl. Foss. Sh. Foss. F. Va. D.  
Bl. Seal. Ssh. Ssh. SSh. SSh. F. Va. D. (410-30)

**CHEROKEE 4407-2103**

Sh. Blk. Carb.

LS. Ta. G. Sh. Calcitic

LS. Ta. w/ Sp. A. VSi. Calcitic

N15:43 WT: 945  
N12:8 CWL: 1500

**DST (1) 4372-4452**

1<sup>st</sup> OPEN: Blow built to 934" BB: None  
2<sup>nd</sup> OPEN: Bottom Bucket 8 min. BB: "

30-60-45-75

GIP?

Rec. 20' SAGM (5% oil 85% M)

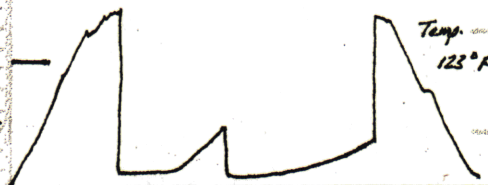
63' VSOCM (3% oil 97% M)

TR: 83'

FP: 23-32 36-44"

SIP: 676-440"

Tool Sample  
30% oil  
20% w  
50% M



**DST (2) 4445-4481**

1<sup>st</sup> OPEN: Bottom bucket 17 min. BB: None  
2<sup>nd</sup> OPEN: " " 17 45 sec BB: "

30-60-45-90

Rec. 189' G.I.P.

78' S60 (10% G 90% O:1) 35.7

63' VHDGM (10% G 40% O:1, 50% M)

63' SH60 (10% G, 75% O:1, 15% M)

63' N06GM (20% G, 30% O:1, 50% M)

TR: 267'

FP: 29-65 77-116"

SIP: 1311-1284"

Tool Sample  
40% oil  
10% w  
50% M



4700

4800

Δ wt.

LS. Tr. chly. Si. Foss. Coelotio

LS. Tr. Foss. VSI. Δ. VSI. Chly.

LS. Tr. wt. dol. Sli. chly.

LS. wt. Foss. Sli. Foss. Sli. chly.

LS. wt. Foss. dol. Sli. chly.

LS. Tr. Foss. VSI. Δ

Dol. DEB. g. Favla

shly. VIOLA 4733-2429

Δ wt. g. Foss.

Dol. Fav. Favla

Dol. Tr. wt. Md. xla

Dol. Tr. Md. xla VSI. Δ

Δ Tr

Dol. Tr. chly. V. Favla. Suc.

Dol. Tr. Favla

Δ wt.

Dol. L. g. Favla

Δ wt

Dol. Tr. g. Favla

Dol. To g. V. F. vln

Dol. To g. F. vln

Δ wt Dol. To g. F. vln

Δ wt.

Dol. To wt. vln

Dol. wt. F. vln To Glave.

**SIMPSON 4930-2626**  
soly. sh. Blue g. Yellow Sol. Dol.

Soly. sh. Mill Col. Rd. Sub. Rd. w/ sh. Fac.  
Pyritic Sol. sh.

sh. Blue g.

sh Blue g. Purple  
**ARBUCKLE 4964-2660**

Dol. To Red. Md. vln

Dol. To Pink F. vln

Dol. To Md. vln

Dol. To Md. vln

Dol. To Md. vln

VIS: 53 WTC: 9.3

WG: 16.0 CM: 7000

RTD 5020-2716

4900

5000







**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Well Complete

**DATE**  
 July  
**16**  
 2019

**DST #1**      **Formation: Fort Scott/Cherokee Sand**      **Test Interval: 4372 - 4452'**      **Total Depth: 4452'**  
 Time On: 20:04 07/16      Time Off: 05:11 07/17  
 Time On Bottom: 23:26 07/16      Time Off Bottom: 02:56 07/17

Electronic Volume Estimate:  
 407'

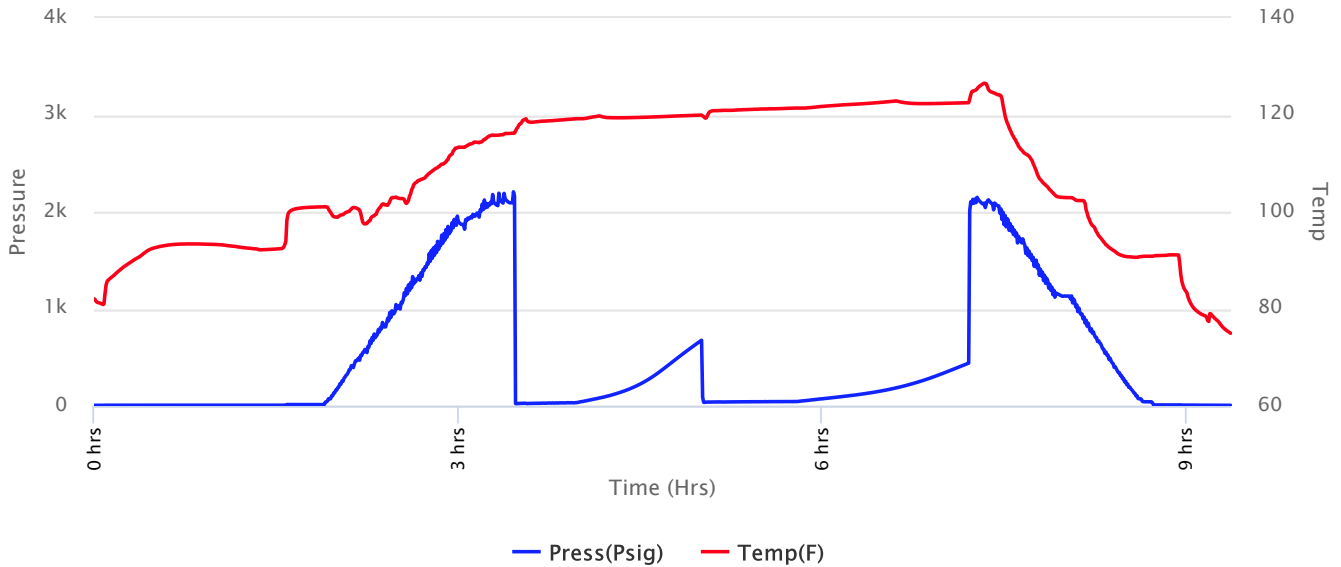
1st Open  
 Minutes: 30  
 Current Reading:  
 9.7" at 30 min  
 Max Reading: 9.7"

1st Close  
 Minutes: 60  
 Current Reading:  
 0" at 60 min  
 Max Reading: 0"

2nd Open  
 Minutes: 45  
 Current Reading:  
 25.8" at 45 min  
 Max Reading: 25.8"

2nd Close  
 Minutes: 75  
 Current Reading:  
 0" at 75 min  
 Max Reading: 0"

Inside Recorder





**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Well Complete

**DATE**  
 July  
**16**  
 2019

**DST #1**      **Formation: Fort Scott/Cherokee Sand**      **Test Interval: 4372 - 4452'**      **Total Depth: 4452'**  
 Time On: 20:04 07/16      Time Off: 05:11 07/17  
 Time On Bottom: 23:26 07/16      Time Off Bottom: 02:56 07/17

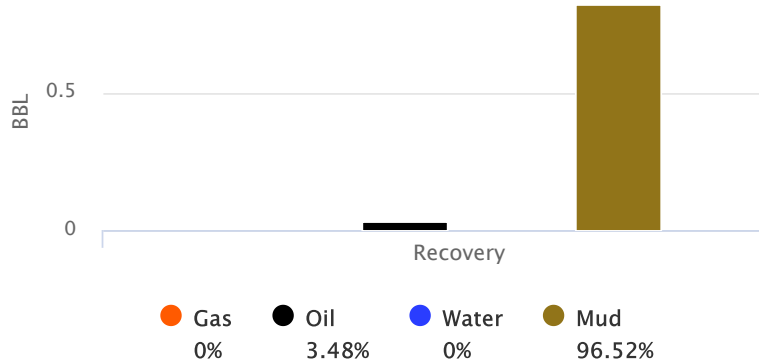
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
20	0.2052	SLOCM	0	5	0	95
63	0.64638	SLOCM	0	3	0	97

Total Recovered: 83 ft  
 Total Barrels Recovered: 0.85158

**Reversed Out**  
**NO**

**Recovery at a glance**



Initial Hydrostatic Pressure	2095	PSI
Initial Flow	23 to 32	PSI
<b>Initial Closed in Pressure</b>	<b>676</b>	<b>PSI</b>
Final Flow Pressure	36 to 44	PSI
<b>Final Closed in Pressure</b>	<b>440</b>	<b>PSI</b>
Final Hydrostatic Pressure	2080	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	34.9	%

GIP cubic foot volume: 0



**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Well Complete

**DATE**  
July  
**16**  
2019

**DST #1**      **Formation: Fort  
Scott/Cherokee  
Sand**      **Test Interval: 4372 -  
4452'**      **Total Depth: 4452'**

Time On: 20:04 07/16      Time Off: 05:11 07/17  
Time On Bottom: 23:26 07/16      Time Off Bottom: 02:56 07/17

**BUCKET MEASUREMENT:**

1st Open: 1/4 in. blow building to 9 3/4 ins. in 30 mins.  
1st Close: No blow back.  
2nd Open: Blow building. BOB in 8 mins. 15 secs.  
2nd Close: No blow back.

**REMARKS:**

Tool Sample: 0% Gas 30% Oil 20% Water 50% Mud



**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Well Complete

**DATE**  
July  
**16**  
2019

**DST #1**      **Formation: Fort  
Scott/Cherokee  
Sand**      **Test Interval: 4372 -  
4452'**      **Total Depth: 4452'**

Time On: 20:04 07/16      Time Off: 05:11 07/17  
Time On Bottom: 23:26 07/16      Time Off Bottom: 02:56 07/17

**Down Hole Makeup**

<b>Heads Up:</b> 32.28 FT	<b>Packer 1:</b> 4366.91 FT
<b>Drill Pipe:</b> 4371.62 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4371.91 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4356.33 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4375 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 80.09	<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> 12 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 63.09 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Well Complete

**DATE**  
July  
**16**  
2019

**DST #1**      **Formation: Fort  
Scott/Cherokee  
Sand**      **Test Interval: 4372 -  
4452'**      **Total Depth: 4452'**

Time On: 20:04 07/16      Time Off: 05:11 07/17  
Time On Bottom: 23:26 07/16      Time Off Bottom: 02:56 07/17

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.45      **Viscosity:** 43      **Filtrate:** 12.8      **Chlorides:** 4,500 ppm



**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

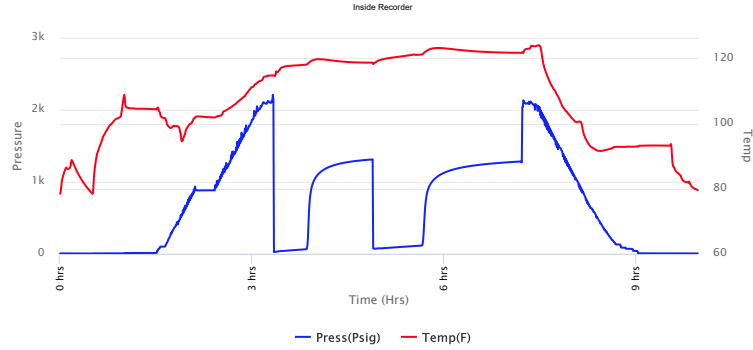
SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 July  
**17**  
 2019

**DST #2**      **Formation: Mississippian**      **Test Interval: 4445 - 4481'**      **Total Depth: 4481'**  
 Time On: 14:01 07/17      Time Off: 23:43 07/17  
 Time On Bottom: 17:15 07/17      Time Off Bottom: 21:00 07/17

Electronic Volume Estimate: 517'	<b>1st Open</b> Minutes: 30 Current Reading: 18.2" at 30 min Max Reading: 18.2"	<b>1st Close</b> Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0"	<b>2nd Open</b> Minutes: 45 Current Reading: 26.7" at 45 min Max Reading: 26.7"	<b>2nd Close</b> Minutes: 90 Current Reading: 0" at 90 min Max Reading: 0"
----------------------------------	--	---	--	---



**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 July  
**17**  
 2019

**DST #2**      **Formation: Mississippian**      **Test Interval: 4445 - 4481'**      **Total Depth: 4481'**  
 Time On: 14:01 07/17      Time Off: 23:43 07/17  
 Time On Bottom: 17:15 07/17      Time Off Bottom: 21:00 07/17

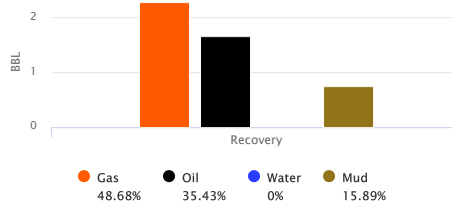
**Recovered**

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
189	1.93914	G	100	0	0	0
78	0.80028	SLGCO	10	90	0	0
63	0.64638	SLGCHOCM	10	40	0	50
63	0.64638	SLGCSLMCO	10	75	0	15
63	0.64638	GCHOCM	20	30	0	50

Total Recovered: 456 ft  
 Total Barrels Recovered: 4.67856

**Reversed Out**  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2100	PSI
Initial Flow	29 to 65	PSI
<b>Initial Closed in Pressure</b>	<b>1311</b>	<b>PSI</b>
Final Flow Pressure	77 to 116	PSI
<b>Final Closed in Pressure</b>	<b>1284</b>	<b>PSI</b>
Final Hydrostatic Pressure	2086	PSI
Temperature	124	°F

Pressure Change Initial Close / Final Close      2.1      %

GIP cubic foot volume: 12.78826



**Company: Raymond Oil  
Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
July  
**17**  
2019

**DST #2**      **Formation:**      **Test Interval: 4445 -**      **Total Depth: 4481'**  
**Mississippian**      **4481'**  
Time On: 14:01 07/17      Time Off: 23:43 07/17  
Time On Bottom: 17:15 07/17      Time Off Bottom: 21:00 07/17

**BUCKET MEASUREMENT:**  
1st Open: Bob in 17 min.  
1st Close: No Return  
2nd Open: BoB in 17 min. 45 sec.  
2nd Close: No Return

**REMARKS:**  
Tool Sample: 0% Gas 40% Oil 10% Water 50% Mud  
Gravity: 35.7 @ 60 °F



**Company: Raymond Oil  
Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
July  
**17**  
2019

**DST #2**      **Formation:**      **Test Interval: 4445 -**      **Total Depth: 4481'**  
**Mississippian**      **4481'**  
Time On: 14:01 07/17      Time Off: 23:43 07/17  
Time On Bottom: 17:15 07/17      Time Off Bottom: 21:00 07/17

**Down Hole Makeup**

<b>Heads Up:</b> 22.69 FT	<b>Packer 1:</b> 4440 FT
<b>Drill Pipe:</b> 4435.12 FT	<b>Packer 2:</b> 4445 FT
ID-3 1/4	<b>Top Recorder:</b> 4429.42 FT
<b>Weight Pipe:</b> 0 FT	<b>Bottom Recorder:</b> 4447 FT
ID-2 7/8	<b>Well Bore Size:</b> 7 7/8
<b>Collars:</b> 0 FT	<b>Surface Choke:</b> 1"
ID-2 1/4	<b>Bottom Choke:</b> 5/8"
<b>Test Tool:</b> 33.57 FT	
ID-3 1/2-FH	
Jars	
Safety Joint	
<b>Total Anchor:</b> 36	
<b>Anchor Makeup</b>	
<b>Packer Sub:</b> 1 FT	



Perforations: (top): 0 FT  
 4 1/2-FH  
 Change Over: 0 FT  
 Drill Pipe: (in anchor): 0 FT  
 ID-3 1/4  
 Change Over: 0 FT  
 Perforations: (below): 35 FT  
 4 1/2-FH



**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 July  
 17  
 2019

**DST #2**      **Formation:**      **Test Interval:** 4445 -      **Total Depth:** 4481'  
 Mississippian      4481'  
 Time On: 14:01 07/17      Time Off: 23:43 07/17  
 Time On Bottom: 17:15 07/17      Time Off Bottom: 21:00 07/17

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.35      **Viscosity:** 48      **Filtrate:** 9.6      **Chlorides:** 6300 ppm



**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 July  
 17  
 2019

**DST #2**      **Formation:**      **Test Interval:** 4445 -      **Total Depth:** 4481'  
 Mississippian      4481'  
 Time On: 14:01 07/17      Time Off: 23:43 07/17  
 Time On Bottom: 17:15 07/17      Time Off Bottom: 21:00 07/17

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D





**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

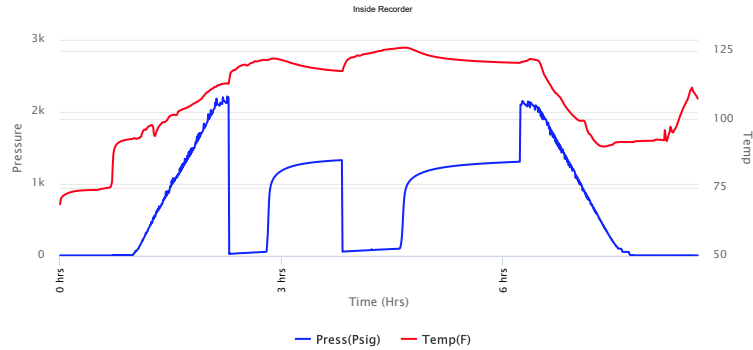
SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 July  
**18**  
 2019

**DST #3**      **Formation: Mississippian**      **Test Interval: 4479 - 4486'**      **Total Depth: 4486'**  
 Time On: 06:26 07/18      Time Off: 14:50 07/18  
 Time On Bottom: 08:40 07/18      Time Off Bottom: 12:25 07/18

Electronic Volume Estimate: 419'	<u>1st Open</u> Minutes: 30 Current Reading: 14" at 30 min Max Reading: 14"	<u>1st Close</u> Minutes: 60 Current Reading: .1" at 60 min Max Reading: .1"	<u>2nd Open</u> Minutes: 45 Current Reading: 21.1" at 45 min Max Reading: 21.1"	<u>2nd Close</u> Minutes: 90 Current Reading: .5" at 90 min Max Reading: .75"
----------------------------------	--	---	--	--



**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 July  
**18**  
 2019

**DST #3**      **Formation: Mississippian**      **Test Interval: 4479 - 4486'**      **Total Depth: 4486'**  
 Time On: 06:26 07/18      Time Off: 14:50 07/18  
 Time On Bottom: 08:40 07/18      Time Off Bottom: 12:25 07/18

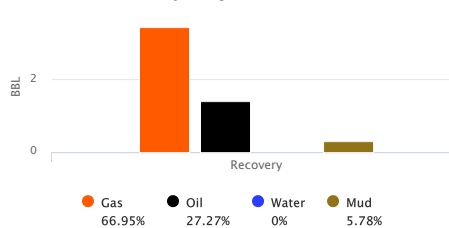
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
282	2.89332	G	100	0	0	0
30	0.3078	SLGCO	10	90	0	0
63	0.64638	GCHMCO	20	50	0	30
63	0.64638	SLMCHGCO	30	67	0	3
63	0.64638	SLMCHGCO	30	57	0	13

Total Recovered: 501 ft  
 Total Barrels Recovered: 5.14026

**Reversed Out**  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2152	PSI
Initial Flow	39 to 55	PSI
<b>Initial Closed in Pressure</b>	<b>1329</b>	<b>PSI</b>
Final Flow Pressure	60 to 112	PSI
<b>Final Closed in Pressure</b>	<b>1308</b>	<b>PSI</b>
Final Hydrostatic Pressure	2129	PSI
Temperature	127	°F

Pressure Change Initial Close / Final Close      1.6      %

GIP cubic foot volume: 19.32064



**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
July  
**18**  
2019

**DST #3      Formation:      Test Interval: 4479 -      Total Depth: 4486'**  
**Mississippian      4486'**  
Time On: 06:26 07/18      Time Off: 14:50 07/18  
Time On Bottom: 08:40 07/18      Time Off Bottom: 12:25 07/18

**BUCKET MEASUREMENT:**

1st Open: BoB in 23 min. 28 sec.  
1st Close: Surface Return started at 3 min 15 sec. Built to 1/8" then died back to weak surface return.  
2nd Open: BoB in 22 min. 13 sec.  
2nd Close: Surface Return started at 2 min. 32 sec. Built to 3/4" then died back to 1/2"

**REMARKS:**

Tool Sample: 40% Gas 30% Oil 5% Water 25% Mud  
Gravity: 36.3 @ 60 °F



**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
July  
**18**  
2019

**DST #3      Formation:      Test Interval: 4479 -      Total Depth: 4486'**  
**Mississippian      4486'**  
Time On: 06:26 07/18      Time Off: 14:50 07/18  
Time On Bottom: 08:40 07/18      Time Off Bottom: 12:25 07/18

**Down Hole Makeup**

<b>Heads Up:</b> 20.19 FT	<b>Packer 1:</b> 4474 FT
<b>Drill Pipe:</b> 4466.62 FT	<b>Packer 2:</b> 4479 FT
ID-3 1/4	<b>Top Recorder:</b> 4463.42 FT
<b>Weight Pipe:</b> 0 FT	<b>Bottom Recorder:</b> 4481 FT
ID-2 7/8	<b>Well Bore Size:</b> 7 7/8
<b>Collars:</b> 0 FT	<b>Surface Choke:</b> 1"
ID-2 1/4	<b>Bottom Choke:</b> 5/8"
<b>Test Tool:</b> 33.57 FT	
ID-3 1/2-FH	
Jars	
Safety Joint	
<b>Total Anchor:</b> 7	
<b>Anchor Makeup</b>	
<b>Packer Sub:</b> 1 FT	

Perforations: (top): 0 FT  
 4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT  
 ID-3 1/4

Change Over: 0 FT

Perforations: (below): 6 FT  
 4 1/2-FH



**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 July  
**18**  
 2019

**DST #3**      **Formation: Mississippian**      **Test Interval: 4479 - 4486'**      **Total Depth: 4486'**

Time On: 06:26 07/18      Time Off: 14:50 07/18  
 Time On Bottom: 08:40 07/18      Time Off Bottom: 12:25 07/18

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.35      **Viscosity:** 48      **Filtrate:** 9.6      **Chlorides:** 6300 ppm



**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 July  
**18**  
 2019

**DST #3**      **Formation: Mississippian**      **Test Interval: 4479 - 4486'**      **Total Depth: 4486'**

Time On: 06:26 07/18      Time Off: 14:50 07/18  
 Time On Bottom: 08:40 07/18      Time Off Bottom: 12:25 07/18

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D





**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
July  
**18**  
2019

**DST #4**      **Formation:**  
**Mississippian**      **Test Interval: 4485 -**  
**4494'**      **Total Depth: 4494'**  
Time On: 21:49 07/18      Time Off: 07:26 07/19  
Time On Bottom: 00:23 07/19      Time Off Bottom: 04:08 07/19

Electronic Volume  
Estimate:  
128'

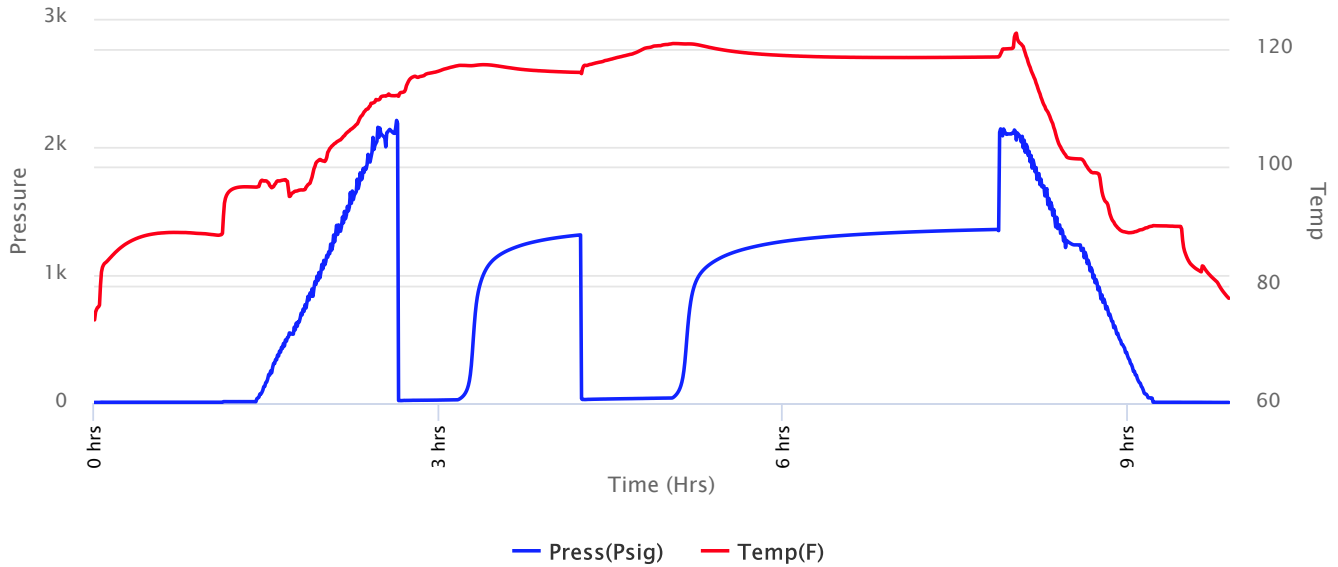
1st Open  
Minutes: 30  
Current Reading:  
4.1" at 30 min  
Max Reading: 4.1"

1st Close  
Minutes: 60  
Current Reading:  
0" at 60 min  
Max Reading: 0"

2nd Open  
Minutes: 45  
Current Reading:  
6.7" at 45 min  
Max Reading: 6.7"

2nd Close  
Minutes: 90  
Current Reading:  
0" at 90 min  
Max Reading: 0"

Inside Recorder





**Company: Raymond Oil Company, Inc**  
**Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
 County: HODGEMAN  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2299 GL  
 Field Name: Sandpit North  
 Pool: WILDCAT  
 Job Number: 371  
 API #: 15-083-21969

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 July  
**18**  
 2019

**DST #4**      **Formation: Mississippian**      **Test Interval: 4485 - 4494'**      **Total Depth: 4494'**  
 Time On: 21:49 07/18      Time Off: 07:26 07/19  
 Time On Bottom: 00:23 07/19      Time Off Bottom: 04:08 07/19

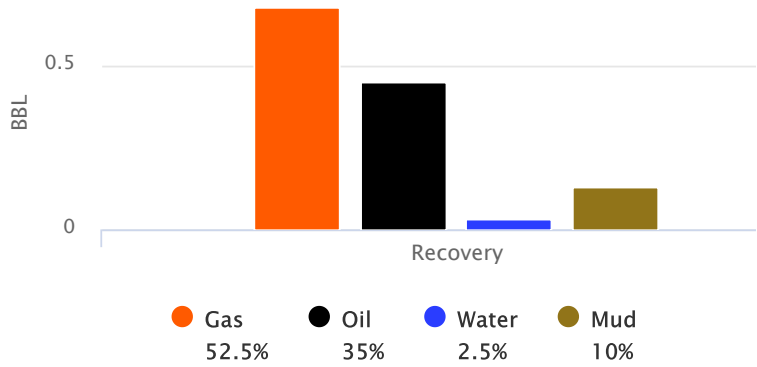
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
63	0.64638	G	100	0	0	0
63	0.64638	SLWCSLGC MCO	5	70	5	20

Total Recovered: 126 ft  
 Total Barrels Recovered: 1.29276

Reversed Out  
 NO

Initial Hydrostatic Pressure	2108	PSI
Initial Flow	20 to 26	PSI
<b>Initial Closed in Pressure</b>	<b>1314</b>	<b>PSI</b>
Final Flow Pressure	28 to 40	PSI
<b>Final Closed in Pressure</b>	<b>1356</b>	<b>PSI</b>
Final Hydrostatic Pressure	2102	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 3.81056





**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
July  
**18**  
2019

<b>DST #4</b>	<b>Formation:</b> Mississippian	<b>Test Interval: 4485 - 4494'</b>	<b>Total Depth: 4494'</b>
	Time On: 21:49 07/18	Time Off: 07:26 07/19	
	Time On Bottom: 00:23 07/19	Time Off Bottom: 04:08 07/19	

**BUCKET MEASUREMENT:**

1st Open: Surface Blow built to 4 1/8" over 30 min.  
1st Close: No Return  
2nd Open: Weak Surface blow built to 6 3/4" over 45 min.  
2nd Close: No Return

**REMARKS:**

Tool Sample: 0% Gas 75% Oil 10% Water 15% Mud



**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
July  
**18**  
2019

**DST #4**      **Formation:**      **Test Interval: 4485 -**      **Total Depth: 4494'**  
**Mississippian**      **4494'**  
Time On: 21:49 07/18      Time Off: 07:26 07/19  
Time On Bottom: 00:23 07/19      Time Off Bottom: 04:08 07/19

**Down Hole Makeup**

<b>Heads Up:</b> 14.19 FT	<b>Packer 1:</b> 4480 FT
<b>Drill Pipe:</b> 4466.62 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4485 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4469.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4487 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> 9	<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> 8 FT <i>4 1/2-FH</i>	



**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
July  
**18**  
2019

**DST #4**      **Formation:**      **Test Interval: 4485 -**      **Total Depth: 4494'**  
**Mississippian**      **4494'**  
Time On: 21:49 07/18      Time Off: 07:26 07/19  
Time On Bottom: 00:23 07/19      Time Off Bottom: 04:08 07/19

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.35      **Viscosity:** 48      **Filtrate:** 9.6      **Chlorides:** 6300 ppm



**Company: Raymond Oil  
Company, Inc  
Lease: Frusher #1**

SEC: 9 TWN: 21S RNG: 23W  
County: HODGEMAN  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2299 GL  
Field Name: Sandpit North  
Pool: WILDCAT  
Job Number: 371  
API #: 15-083-21969

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
July  
**18**  
2019

**DST #4**      **Formation:**      **Test Interval: 4485 -**      **Total Depth: 4494'**  
**Mississippian**      **4494'**  
Time On: 21:49 07/18      Time Off: 07:26 07/19  
Time On Bottom: 00:23 07/19      Time Off Bottom: 04:08 07/19

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D