

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
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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				

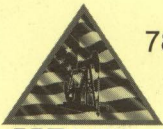
1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted 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) (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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785-953-0222

TICKET NUMBER 1416 K-C
LOCATION Hugoton
FOREMAN Jasen

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-1-21		Frusher #4	9	21S	23W	Hodgeman
CUSTOMER Raymond Oil Co. Inc.			Jetmore			
MAILING ADDRESS			N to Rd X			
CITY			3E			
STATE			39			
ZIP CODE			503			
			801/851			
			Cory			
			Nathan			

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 262' CASING SIZE & WEIGHT 8 7/8 23#
 CASING DEPTH 260 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 15-20'
 DISPLACEMENT 15 1/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Safety Meeting, Rig up on LD Pulling
Circ. Casings on Bottom, Mix 175sx Cem. 3% CC 2% Ool
Disp. 15 1/4 BBI H₂O, Shut in

Cem Did Circ 2 BBL to Pit

Thank you Jasen wait for

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
	1	PUMP CHARGE	1150.00	1150.00
	30 mi	MILEAGE	7.15	214.50
	8.23 TN	Tan Mileage Delivery	1.25	660.00
	175sx	Surface Blend II	24.00	4200.00
				6224.50
			Less 25%	1556.13
				4668.37
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION David A. Brown TITLE _____ DATE _____

I acknowledge that the payments 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
 316-684-9709 # MCHTAKS

GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

COMPANY **RAYMOND OIL COMPANY, Inc.**

LEASE # **4 FRUSHER**

FIELD **WILDCAT**

LOCATION **1800' FNL 1/4 1563' FWL**

SEC **9** TWP **21s** RGE **23w**

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

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

SPUD **11-1-21** COMP **11-11-21**

RTD **4650** LTD **4650**

MUD UP **3434** TYPE MUD **CHEMICAL**

SAMPLES SWED FROM **3400 TO 4650**

DRILLING TIME KEPT FROM **3400 TO 4650**

SAMPLES EXAMINED FROM **3400 TO 4650**

GEOLOGICAL SUPERVISION FROM **3700 TO 4650**

GEOLOGIST ON WELL **Kim B. Shoemaker**

ELEVATIONS

KB **2353**

DF **2348**

GI **2348**

Measurements Are All From **2353 KB**

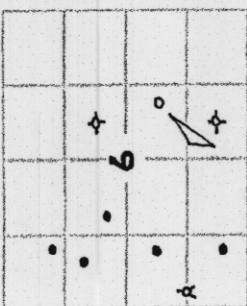
CASING SURFACE **8 5/8" @ 259'**

FRACING

ELECTRICAL SURVEYS
 Dual Inv., DEN-S-N., Micro

FORMATION TOPS LOG SAMPLES

ANHYDRITE	1560+793	1558+795
HEBNER	3846-1493	3848-1495
LANSING	3898-1545	3902-1549
B/KC	4234-1881	4230-1877
PAWNEE	4354-2001	4350-1997
FORT SCOTT	4421-2068	4422-2069
CHEROKEE	4446-2093	4446-2093
MISSISSIPPI	4520-2167	4522-2164



REMARKS

- 11-1-21 SPUD
- 11-2 @ 262'
- 11-3 @ 1490'
- 11-4 @ 2380'
- 11-5 @ 2845'
- 11-6 @ 3371'
- 11-7 @ 3870'
- 11-8 @ 4130'
- 11-9 @ 4330'
- 11-10 @ 4420'
- 11-11 @ 4650'

API: 15-083-21996

LEGEND

Anhydrite	Salt	Sandstone	Sands	Coal sh	Limestone	Coal/Lime	Clay	Dolomite

DRILLING TIME IN MINUTES

LITHOLOGY

Rate of Penetration Increases

5" 10" 15" 20" 25"

SAMPLE DESCRIPTIONS

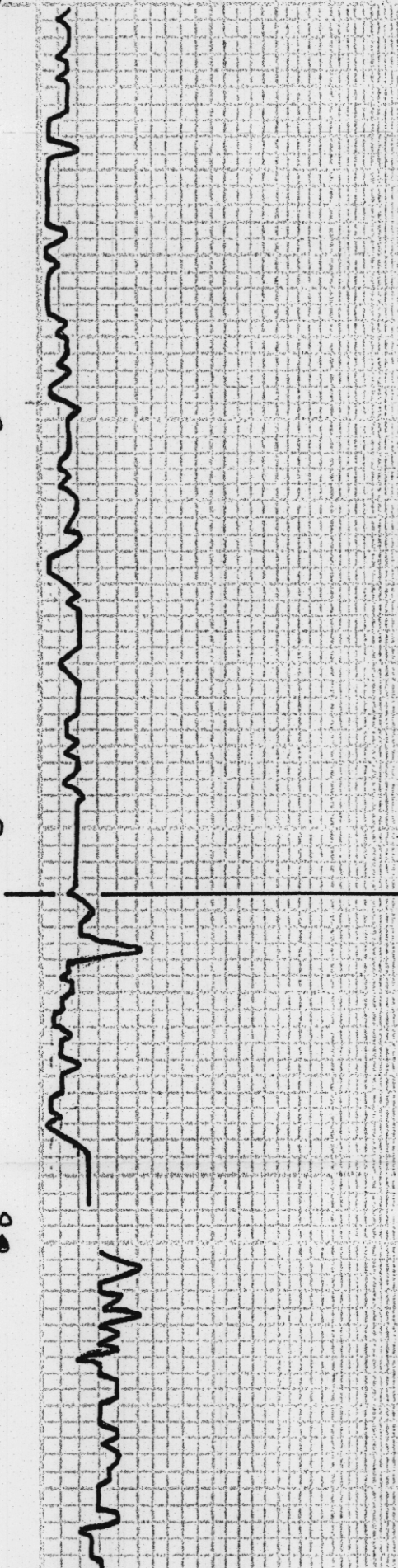
REMARKS

DEPTH
1450

1500

1550

3400
~~3300~~



ANHYDRITE 1558 + 795

Samples are Logged

65. Liq. Sil. Foss

4. Liq. Silkw

3500

3600

Ls. Br Gy. Sil. Foss.

Sh. Lt Gy. Silby. Sdy. V. Ft. G. Sub. Rd.

Sh. Lt Gy.

Ls. wt. Sil. Foss. Sil. Chlby.

Ls. wt. Sil. A.

Sh. Lt. Blue

Ls. Br. V. Sil. Foss.

Sh. Lt. Gy.

Ls. Br. V. Sil. Foss. Sil. A.

Sh. Rd.

Ls. wt. Lt. Gy. Sil. Foss. Col. Sil.

Ls. Gy. Sil. Foss.

Ls. wt. Sil. Foss. Col. Sil.

Ls. Sil. wt. Foss. Sil. Col.

Sh. Blk

Sh. Lt. G. Blue

LS. Br. Sh. Foss. St. A

LS wt. Tr. Sh. Foss. cherty

LS. Thwt. Foss. - Calceitic

Sh. Gy.

LS. Lt. G. Tr. Sh. A

LS. Lt. G. Wt. Foss.

LS wt. Foss. St. A

LS. Tr. Foss. Calceitic

LS. wt. Sh. Foss. cherty

LS. Tr. Foss. Calceitic

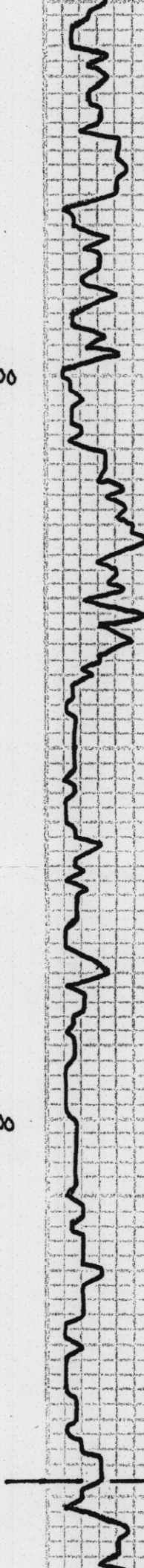
HEBNER
Sh. Blk. Carb.

3848-1495

Ch. Lt. G. Blue

3700

3800



TORONTO

VIS: 52 WT: 8.9
WL: 5.8 CHL: 2400

LS. wt. Sil. Foss. Sil. Δ

LS. Tr. wt. Sil. Δ

Sh. Rd. Ltg.

LOG

3900

LANSING 3902-1549

LS. Tr. col. Sil. Δ

Sh. Ltg.

LS. wt. Ltg. Sil. col. col. Sil. Δ

LS. wt. Ltg. Sil. Foss. Sh. Chlly

LS. wt. VSI. Foss. Sil. Δ

Sh. Ltg.

LS. Bl. VSI. Foss.

Sh. Blue. Ltg.

LS. wt. Ltg. Sh. Foss.

Δ wt.

LS. Tr. Ltg. Sil. Δ

Sh. Ltg.

LS. wt. Sil. Foss. Sil. Δ

4000

BIT TRIP

LS. Ltg. VSI. Chlly

Sh. DLtg.

LS. Bl. Sil. Foss. Colerlie

4100

Sh. Lt G.

Ls. wt Lt G. Si. Foss. Sil. A

Sh. Dk G. Ls. Dk. Br. V. Si. Col. etc.

Sh. Lt G.

Ls. T. wt.ool. Sil. A

Ls. T. wt.ool. Sil. A vs. ch. lky.

Ls. Lt G. vs. ch. lky.

Sh. Lt G.

Ls. T. wt.ool. Sil. A

VIS: 51 WT: 9.1
WL: 7.8 CAL: 4600

STARK 4160
- 1807

Sh. Dk G.

Sh. Lt G. G.

Ls. wt Lt G. Si. Foss.ool. Sil. ch. lky.

Δ G

Ls. Lt G. Si. Foss. Sil. A

4200

Sh. Blk. Carb.

Ls. wt. Sil. Foss.ool.

Δ wt.

Ls. Lt G. vs. ch. lky.

B/KC 4230-1877

V LOG

Sh. Lt G.

Sh. Lt. Blu. Sdy. Silky

Ls. Lt. G.ool-Foss. Sil. ch. lky.

Sh. Lt G. Blu. G. Silky. Sdy. Y. Foss. Sub. Rd.

Sh. Rd. Purate

4300

LS wt. VSh Foss w/ Rd Sh. Incl.

Sh. Rd. Maroon

LS. Lt. G. Si A

Sh. Lt. Blue G.

LS. Lt. G. VSh Foss.

Sh. Blue G.

LS. Tan G. Si A

LS. wt. chly.

Sh. Lt. Blue G.

LS. Tan G. Sh. Foss. Si A

PAWNEE 1350-1997
Sh. Blk G.

V106

LS. Tan Lt. Bl. Si A

LS. Tan G. Si A

LS G. Silty

Sh. G. Blk G. Silty

4400

DST (1)

Sh. Blk Carb.

FORT SCOTT 4422-2069

LS. Bl.ool. Si. A. Calcitic

DST (1) 4410-4460
 1st OPEN: 1/4" Blow
 2nd OPEN: No Blow
 30-60-95-75
 Rec. 8" Mud
 Tool Sample 100% Mud
 FP: 12-14 14-16"
 SIP: 1158-1044"
 Temp. 120°F

VIS: 46 WT: 9.5
 WL: 7.6 CAL: 3700

LS. Tan Lt. VSh Foss. Si. chly. P. Vis p
 Sptl. Bl. Sh. VSSFD. Dull Flour
 No. 0.1

CHEROKEE 4446-2093
Sh. Blk Carb.

LS. Lt. G. Sh. Foss. Si A

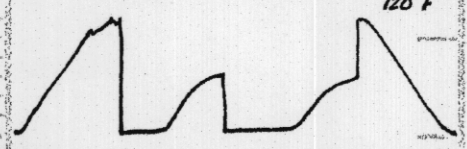
LS. Tan Lt. Bl. VSh Foss.

Sh. Blue Lt. Bl. G.

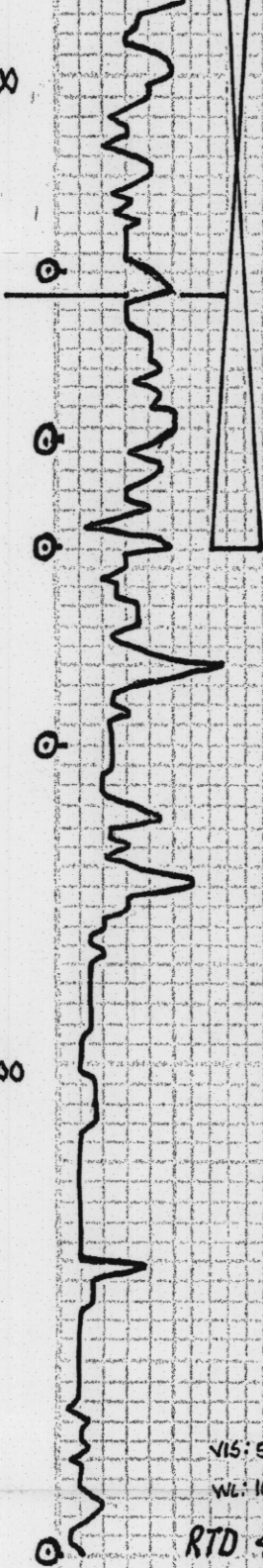
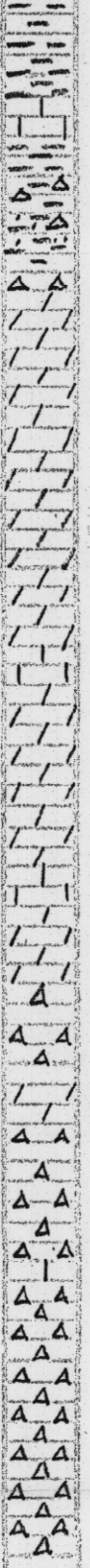
LS. wt. Lt. G. Sh. Foss. Si. chly. P. Vis p
 Lt. Bl. Sptl. Bl. T. PD Dull Flour No. 0.1

B/PENN. 4488-2135

Sh. Blue Tan.



4500



VIS: 65 WT: 95
WL: 12.0 CHL: 6500

Sh. Yellow. G. Purple

LS. G. V. Sil Foss w/ Scat. Blk Sht.

Δ Multicolored w/ Hvy. Blk Sht

Tr. sd. M. lo. G. w/ Hvy. Blk Sht No odor

Sh. Yellow. Purple

MISSISSIPPI 4522-2169

Dol. Tr. L. G. V. Foss. Sht. P. V. Sil
Scat. Blk. De. Bl. Sht. V. Sil Foss. Dull. Flow
Fr. Odor.

Dol. L. G. V. Foss. Sht. Foss. Sht.
De. Bl. Bl. Sht. Sp. Sht. F. Foss.
Fr. P. V. Sil

Dol. Tr. L. G. Sht. Foss. V. Foss. Sht.
Fr. P. V. Sil Bl. Sht. V. Sil Foss. V. Foss.

LS. Lt. Bl. G. Sht. Foss. Calcite

Dol. L. G. V. Foss. Sht.

Dol. wt. V. Foss. Sht.

LS. Tr. Sht. Foss. Sht. A

Dol. Lt. G. Tr. V. Foss. Sht. w/ Tr. G. Avonite

Δ wt. Foss.

Dol. Tr. wt. V. Foss. Sht.

Δ wt. G. Fresh Cut.

Δ wt. Foss.

Δ wt. L. G. Dol. wt. V. Foss. Sht.

VIS: 50 WT: 935
WL: 10.8 CHL: 6300

RTD 4650-2297

DST (2) 4468-4548

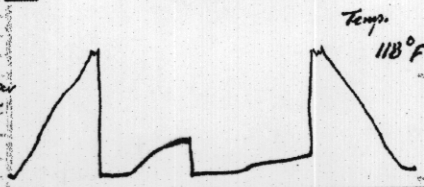
1st OPEN: Blow built to 3/4"

2nd OPEN: No Blow

Tool Sample 30-60-95-75
100% M Rec. 13' Mud

FP: 13-17 18-19*

SIP: 632-340*



4600



**Company: Raymond Oil
Company, Inc
Lease: Frusher #4**

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2350 EGL
Field Name: Sandpit North Ext
Pool: Pool Ext.
Job Number: 531
API #: 15-083-21996

Operation:
Uploading recovery &
pressures

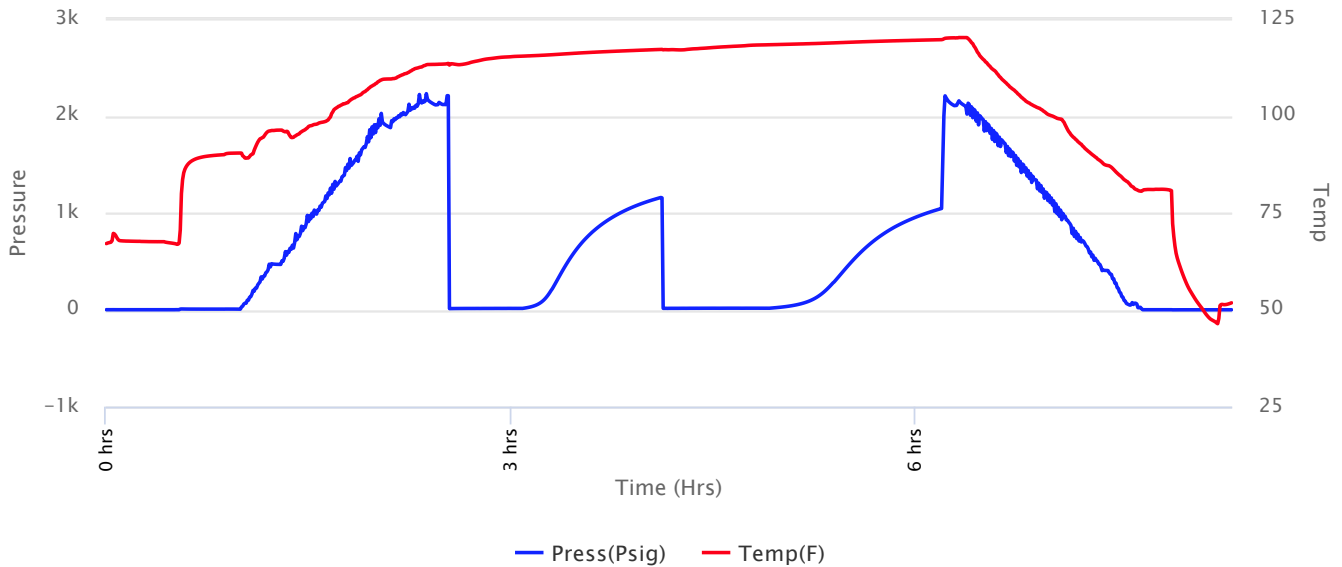
DATE
November
09
2021

DST #1 **Formation: Fort Scott** **Test Interval: 4410 - 4460'** **Total Depth: 4460'**
Time On: 15:46 11/09 Time Off: 23:53 11/09
Time On Bottom: 18:14 11/09 Time Off Bottom: 21:44 11/09

Electronic Volume
Estimate:
3'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 60	Minutes: 45	Minutes: 75
Current Reading: .2" at 30 min	Current Reading: 0" at 60 min	Current Reading: 0" at 45 min	Current Reading: 0" at 75 min
Max Reading: .25"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





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Operation:
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DATE
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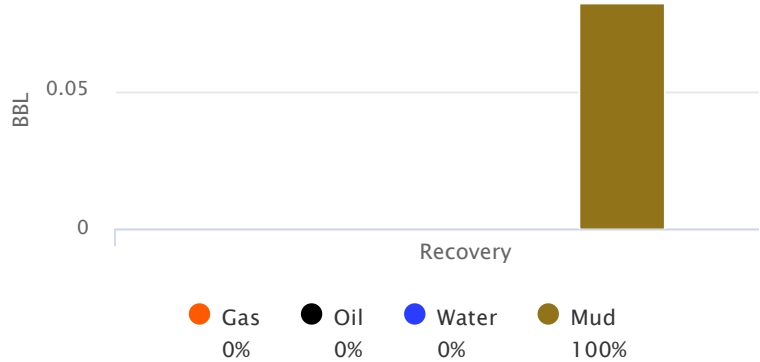
DST #1 **Formation: Fort Scott** **Test Interval: 4410 - 4460'** **Total Depth: 4460'**
Time On: 15:46 11/09 Time Off: 23:53 11/09
Time On Bottom: 18:14 11/09 Time Off Bottom: 21:44 11/09

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
8	0.08208	M	0	0	0	100

Total Recovered: 8 ft
Total Barrels Recovered: 0.08208

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	2115	PSI
Initial Flow	12 to 14	PSI
Initial Closed in Pressure	1158	PSI
Final Flow Pressure	14 to 16	PSI
Final Closed in Pressure	1044	PSI
Final Hydrostatic Pressure	2112	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	9.8	%

GIP cubic foot volume: 0



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County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2350 EGL
Field Name: Sandpit North Ext
Pool: Pool Ext.
Job Number: 531
API #: 15-083-21996

Operation:
Uploading recovery &
pressures

DATE
November
09
2021

DST #1	Formation: Fort Scott	Test Interval: 4410 - 4460'	Total Depth: 4460'
	Time On: 15:46 11/09	Time Off: 23:53 11/09	
	Time On Bottom: 18:14 11/09	Time Off Bottom: 21:44 11/09	

BUCKET MEASUREMENT:

1st Open: WSB. Built to 1/4 inch in 30 minutes

1st Close: NOBB

2nd Open: No Blow

2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



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County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2350 EGL
Field Name: Sandpit North Ext
Pool: Pool Ext.
Job Number: 531
API #: 15-083-21996

Operation:
Uploading recovery &
pressures

DATE
November
09
2021

DST #1 **Formation: Fort
Scott** **Test Interval: 4410 -
4460'** **Total Depth: 4460'**

Time On: 15:46 11/09 Time Off: 23:53 11/09
Time On Bottom: 18:14 11/09 Time Off Bottom: 21:44 11/09

Down Hole Makeup

Heads Up: 1.42999999999999 FT	Packer 1: 4404.93 FT
Drill Pipe: 4378.79 FT <i>ID-3 1/4</i>	Packer 2: 4409.93 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4394.35 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4448 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 50.07	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 31.57 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



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SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2350 EGL
Field Name: Sandpit North Ext
Pool: Pool Ext.
Job Number: 531
API #: 15-083-21996

Operation:
Uploading recovery &
pressures

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DST #1 Formation: Fort Scott Test Interval: 4410 - 4460' Total Depth: 4460'
Time On: 15:46 11/09 Time Off: 23:53 11/09
Time On Bottom: 18:14 11/09 Time Off Bottom: 21:44 11/09

Mud Properties

Mud Type: Chem **Weight:** 9.5 **Viscosity:** 46 **Filtrate:** 3700 **Chlorides:** 3700 ppm



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Scott 4460'
Time On: 15:46 11/09 Time Off: 23:53 11/09
Time On Bottom: 18:14 11/09 Time Off Bottom: 21:44 11/09

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, Inc
Lease: Frusher #4**

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2350 EGL
Field Name: Sandpit North Ext
Pool: Pool Ext.
Job Number: 531
API #: 15-083-21996

Operation:
Uploading recovery &
pressures

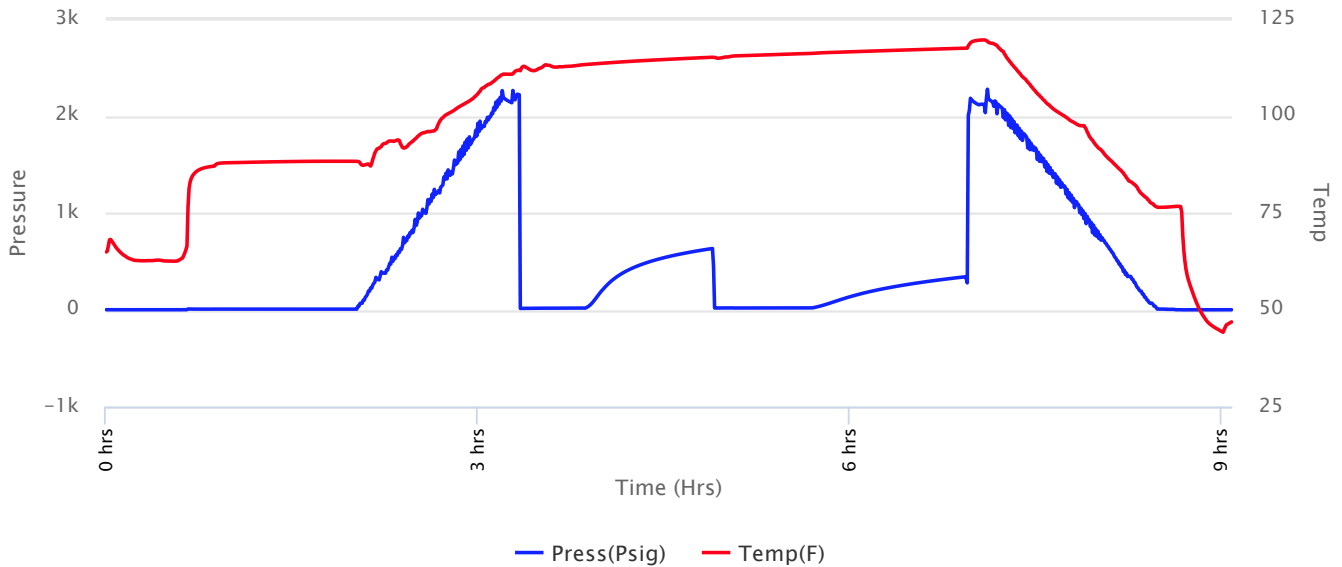
DATE
November
10
2021

DST #2 Formation: Miss Test Interval: 4468 - Total Depth: 4548'
4548'
Time On: 14:47 11/10 Time Off: 23:37 11/10
Time On Bottom: 18:02 11/10 Time Off Bottom: 21:32 11/10

Electronic Volume
Estimate:
g'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 60	Minutes: 45	Minutes: 75
Current Reading: .20" at 30 min	Current Reading: 0" at 60 min	Current Reading: 0" at 45 min	Current Reading: 0" at 75 min
Max Reading: .75"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





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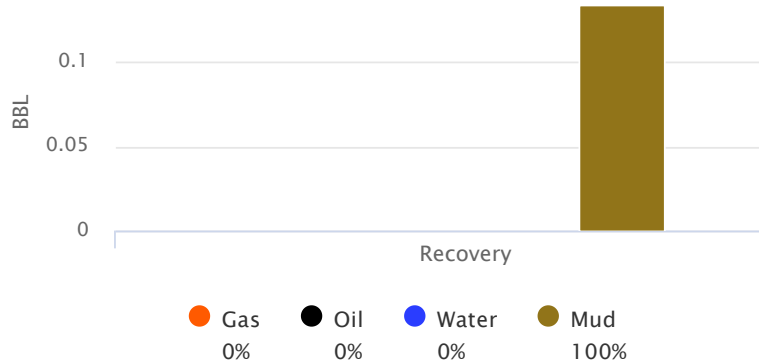
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
13	0.13338	M	0	0	0	100

Total Recovered: 13 ft
Total Barrels Recovered: 0.13338

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	2139	PSI
Initial Flow	13 to 17	PSI
Initial Closed in Pressure	632	PSI
Final Flow Pressure	18 to 19	PSI
Final Closed in Pressure	340	PSI
Final Hydrostatic Pressure	2138	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	46.2	%

GIP cubic foot volume: 0



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BUCKET MEASUREMENT:

1st Open: WSB. Built to 3/4 inch in 30 minutes

1st Close: NOBB

2nd Open: No Blow

2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



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Down Hole Makeup

Heads Up: 6.86999999999999 FT	Packer 1: 4462.96 FT
Drill Pipe: 4442.26 FT <i>ID-3 1/4</i>	Packer 2: 4467.96 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4452.38 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4536 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 80.04	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 1 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 63.04 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



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Mud Properties

Mud Type: Chem **Weight:** 9.5 **Viscosity:** 55 **Filtrate:** 12 **Chlorides:** 5500 ppm



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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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