

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)</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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**Company: Raymond Oil
Company, Inc
Lease: Lewis-Frusher Unit #2**

SEC: 4 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Wildcat
Pool: Wildcat
Job Number: 526
API #: 15-083-21981-00-00

Operation:
Uploading recovery &
pressures

DATE
October
27
2021

DST #1 Formation: Ft. Scott Test Interval: 4350 - 4400' Total Depth: 4400'

Time On: 22:25 10/27 Time Off: 06:21 10/28
Time On Bottom: 00:44 10/28 Time Off Bottom: 04:14 10/28

Electronic Volume
Estimate:
15'

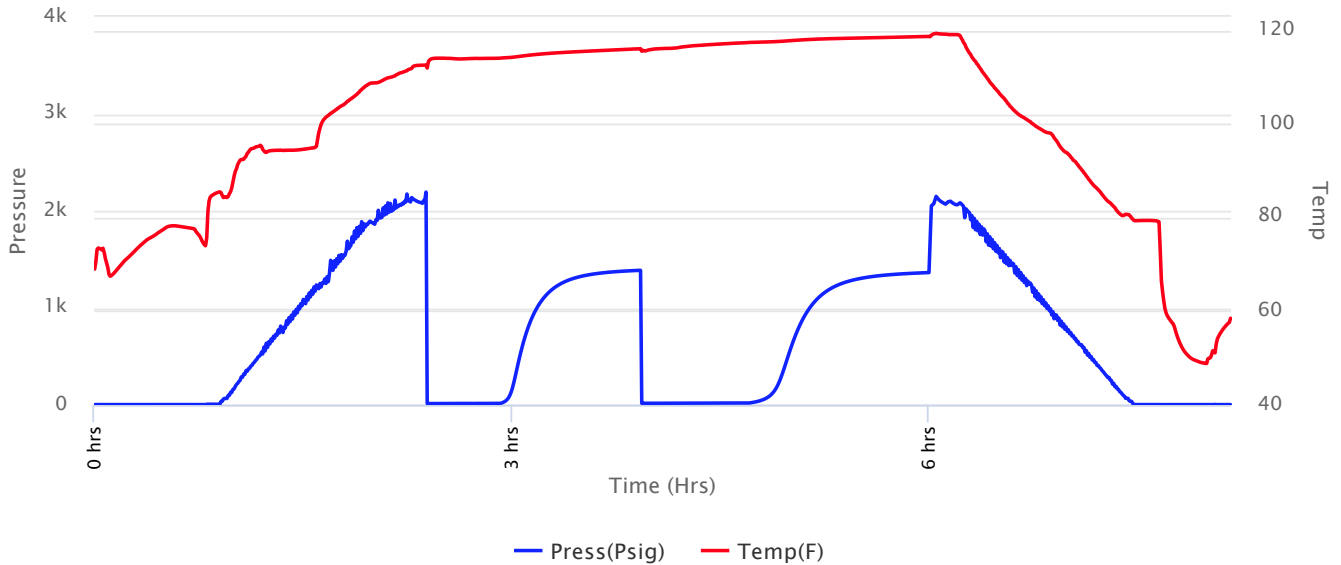
1st Open
Minutes: 30
Current Reading:
1.3" at 30 min
Max Reading: 1.3"

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

2nd Open
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 0"

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

Inside Recorder





Company: Raymond Oil Company, Inc
Lease: Lewis-Frusher Unit #2

SEC: 4 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2294 EGL
 Field Name: Wildcat
 Pool: Wildcat
 Job Number: 526
 API #: 15-083-21981-00-00

Operation:
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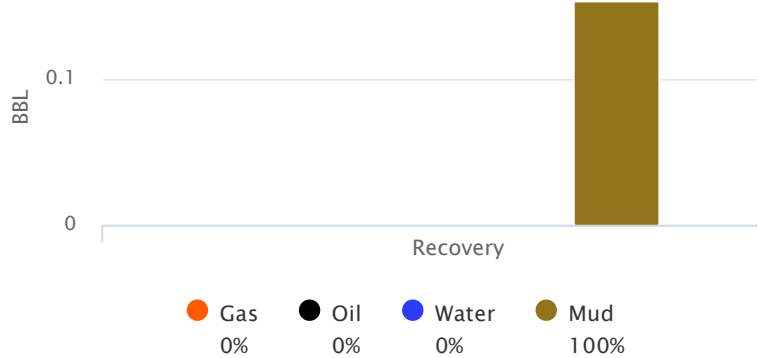
DST #1 **Formation: Ft. Scott** **Test Interval: 4350 - 4400'** **Total Depth: 4400'**
 Time On: 22:25 10/27 Time Off: 06:21 10/28
 Time On Bottom: 00:44 10/28 Time Off Bottom: 04:14 10/28

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
15	0.1539	M	0	0	0	100

Total Recovered: 15 ft
 Total Barrels Recovered: 0.1539

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	2108	PSI
Initial Flow	11 to 14	PSI
Initial Closed in Pressure	1386	PSI
Final Flow Pressure	15 to 17	PSI
Final Closed in Pressure	1362	PSI
Final Hydrostatic Pressure	2106	PSI
Temperature	119	°F
Pressure Change Initial Close / Final Close	1.7	%

GIP cubic foot volume: 0



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Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Wildcat
Pool: Wildcat
Job Number: 526
API #: 15-083-21981-00-00

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DST #1 Formation: Ft. Scott Test Interval: 4350 - Total Depth: 4400'
4400'
Time On: 22:25 10/27 Time Off: 06:21 10/28
Time On Bottom: 00:44 10/28 Time Off Bottom: 04:14 10/28

BUCKET MEASUREMENT:

1st Open: Surface blow building to 1"
1st Close: No BB
2nd Open: Surface blow
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



**Company: Raymond Oil
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DST #1 Formation: Ft. Scott Test Interval: 4350 - Total Depth: 4400'
4400'
Time On: 22:25 10/27 Time Off: 06:21 10/28
Time On Bottom: 00:44 10/28 Time Off Bottom: 04:14 10/28

Down Hole Makeup

Heads Up: 29.98 FT	Packer 1: 4345.22 FT
Drill Pipe: 4347.63 FT <i>ID-3 1/4</i>	Packer 2: 4350.22 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4334.64 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4388 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: 49.78	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.78 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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State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Wildcat
Pool: Wildcat
Job Number: 526
API #: 15-083-21981-00-00

Operation:
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pressures

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2021

DST #1 Formation: Ft. Scott Test Interval: 4350 - Total Depth: 4400'
4400'
Time On: 22:25 10/27 Time Off: 06:21 10/28
Time On Bottom: 00:44 10/28 Time Off Bottom: 04:14 10/28

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 55 **Filtrate:** 6.4 **Chlorides:** 2,900 ppm



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Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Wildcat
Pool: Wildcat
Job Number: 526
API #: 15-083-21981-00-00

Operation:
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DST #1 Formation: Ft. Scott Test Interval: 4350 - Total Depth: 4400'
4400'
Time On: 22:25 10/27 Time Off: 06:21 10/28
Time On Bottom: 00:44 10/28 Time Off Bottom: 04:14 10/28

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: Raymond Oil
Company, Inc**
Lease: Lewis-Frusher Unit #2

SEC: 4 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Sandpit North Ext
Pool: WILDCAT
Job Number: 526
API #: 15-083-21981-00-00

Operation:
Uploading recovery & pressures

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DST #2 **Formation: Mississippian** **Test Interval: 4408 - 4480'** **Total Depth: 4480'**
Time On: 18:58 10/28 Time Off: 04:16 10/29
Time On Bottom: 22:08 10/28 Time Off Bottom: 01:53 10/29

Electronic Volume Estimate:
64'

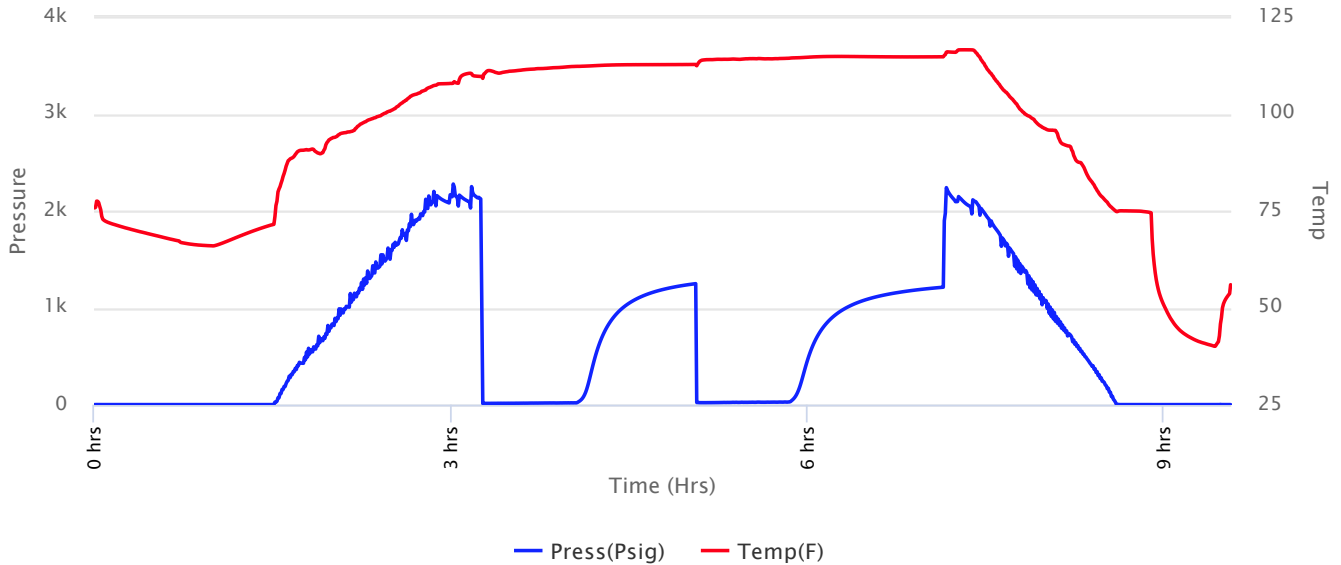
1st Open
Minutes: 45
Current Reading:
2.0" at 45 min
Max Reading: 2.0"

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

2nd Open
Minutes: 45
Current Reading:
3.5" at 45 min
Max Reading: 3.5"

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

Inside Recorder





Company: Raymond Oil Company, Inc
Lease: Lewis-Frusher Unit #2

SEC: 4 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2294 EGL
 Field Name: Sandpit North Ext
 Pool: WILDCAT
 Job Number: 526
 API #: 15-083-21981-00-00

Operation:
 Uploading recovery & pressures

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 2021

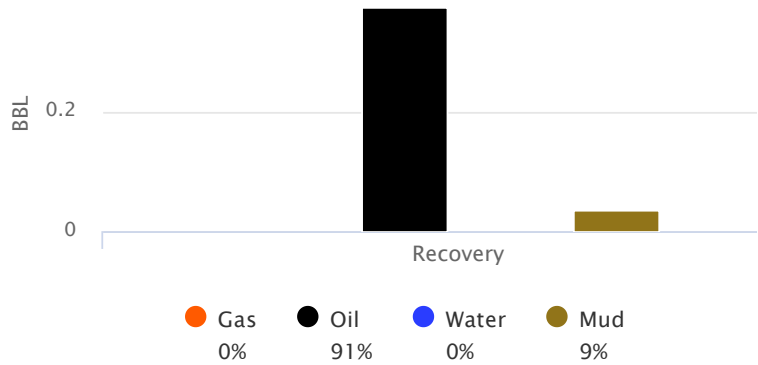
DST #2 **Formation: Mississippian** **Test Interval: 4408 - 4480'** **Total Depth: 4480'**
 Time On: 18:58 10/28 Time Off: 04:16 10/29
 Time On Bottom: 22:08 10/28 Time Off Bottom: 01:53 10/29

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.1026	O	0	100	0	0
30	0.3078	SLMCO	0	88	0	12

Total Recovered: 40 ft
 Total Barrels Recovered: 0.4104

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	2133	PSI
Initial Flow	12 to 19	PSI
Initial Closed in Pressure	1248	PSI
Final Flow Pressure	22 to 29	PSI
Final Closed in Pressure	1212	PSI
Final Hydrostatic Pressure	2122	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	2.9	%

GIP cubic foot volume: 0



**Company: Raymond Oil
Company, Inc**
Lease: Lewis-Frusher Unit #2

SEC: 4 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Sandpit North Ext
Pool: WILDCAT
Job Number: 526
API #: 15-083-21981-00-00

Operation:
Uploading recovery &
pressures

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DST #2	Formation: Mississippian	Test Interval: 4408 - 4480'	Total Depth: 4480'
	Time On: 18:58 10/28	Time Off: 04:16 10/29	
	Time On Bottom: 22:08 10/28	Time Off Bottom: 01:53 10/29	

BUCKET MEASUREMENT:

1st Open: Surface blow building to 2"
1st Close: No BB
2nd Open: Surface blow building to 3 1/4"
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 57% Oil 0% Water 43% Mud

Gravity: 34.6 @ 60 °F



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County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Sandpit North Ext
Pool: WILDCAT
Job Number: 526
API #: 15-083-21981-00-00

Operation:
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DST #2 **Formation:** **Test Interval: 4408 -** **Total Depth: 4480'**
Mississippian **4480'**
Time On: 18:58 10/28 Time Off: 04:16 10/29
Time On Bottom: 22:08 10/28 Time Off Bottom: 01:53 10/29

Down Hole Makeup

Heads Up: 4.28999999999998 FT	Packer 1: 4402.73 FT
Drill Pipe: 4379.45 FT <i>ID-3 1/4</i>	Packer 2: 4407.73 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4392.15 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4445 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: 72.27	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.27 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 36 FT <i>4 1/2-FH</i>	



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SEC: 4 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Sandpit North Ext
Pool: WILDCAT
Job Number: 526
API #: 15-083-21981-00-00

Operation:
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DST #2 **Formation:**
Mississippian **Test Interval: 4408 -**
4480' **Total Depth: 4480'**
Time On: 18:58 10/28 Time Off: 04:16 10/29
Time On Bottom: 22:08 10/28 Time Off Bottom: 01:53 10/29

Mud Properties

Mud Type: Chemical **Weight:** 9.3 **Viscosity:** 55 **Filtrate:** 8.0 **Chlorides:** 4,600 ppm



**Company: Raymond Oil
Company, Inc
Lease: Lewis-Frusher Unit #2**

SEC: 4 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Sandpit North Ext
Pool: WILDCAT
Job Number: 526
API #: 15-083-21981-00-00

Operation:
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DST #2 **Formation:** **Test Interval: 4408 -** **Total Depth: 4480'**
Mississippian **4480'**
Time On: 18:58 10/28 Time Off: 04:16 10/29
Time On Bottom: 22:08 10/28 Time Off Bottom: 01:53 10/29

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: Raymond Oil
Company, Inc**
Lease: Lewis-Frusher Unit #2

SEC: 4 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Sandpit North Ext
Pool: WILDCAT
Job Number: 526
API #: 15-083-21981-00-00

Operation:
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DST #3 **Formation:** **Test Interval: 4478 -** **Total Depth: 4495'**
Mississippian **4495'**
Time On: 11:30 10/29 Time Off: 19:51 10/29
Time On Bottom: 14:11 10/29 Time Off Bottom: 17:41 10/29

Electronic Volume
Estimate:
13'

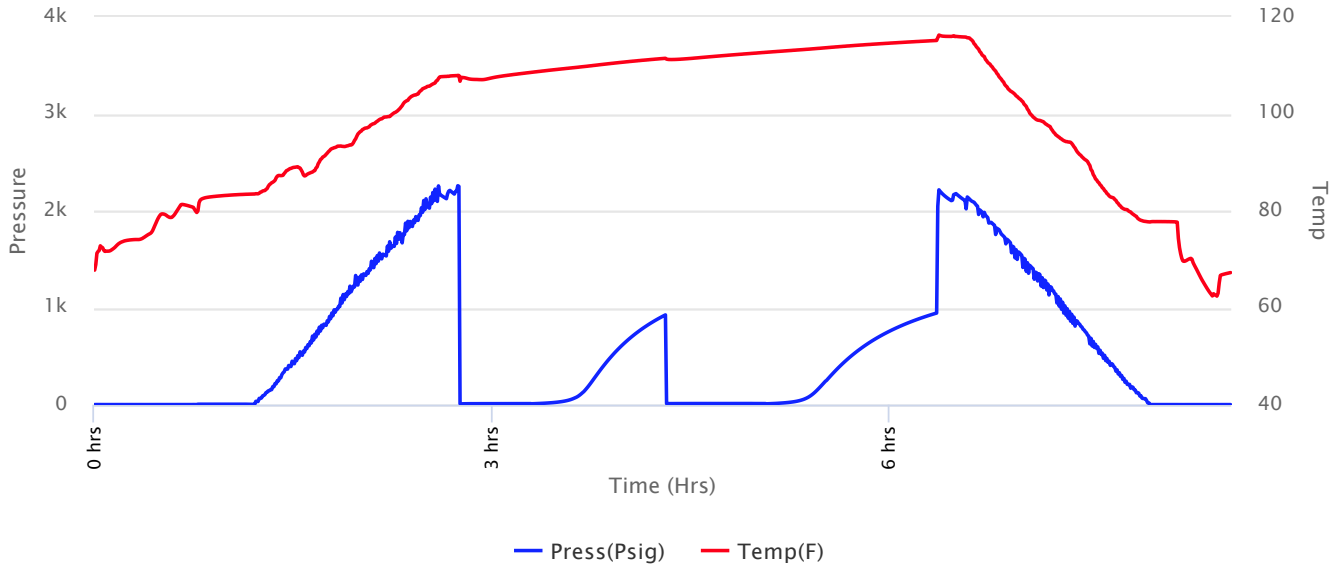
1st Open
Minutes: 30
Current Reading:
1.1" at 30 min
Max Reading: 1.1"

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

2nd Open
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 0"

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

Inside Recorder





Company: Raymond Oil Company, Inc
Lease: Lewis-Frusher Unit #2

SEC: 4 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1
 Elevation: 2294 EGL
 Field Name: Sandpit North Ext
 Pool: WILDCAT
 Job Number: 526
 API #: 15-083-21981-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
29
 2021

DST #3 **Formation: Mississippian** **Test Interval: 4478 - 4495'** **Total Depth: 4495'**
 Time On: 11:30 10/29 Time Off: 19:51 10/29
 Time On Bottom: 14:11 10/29 Time Off Bottom: 17:41 10/29

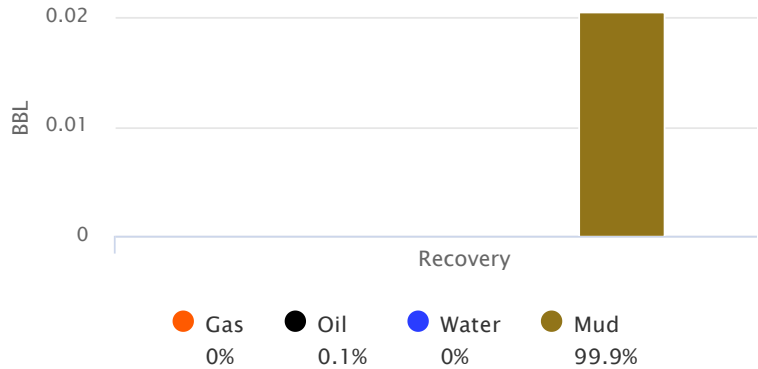
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
2	0.02052	M (trace O)	0	.1	0	99.9

Total Recovered: 2 ft
 Total Barrels Recovered: 0.02052

Reversed Out
NO

Initial Hydrostatic Pressure	2203	PSI
Initial Flow	9 to 10	PSI
Initial Closed in Pressure	926	PSI
Final Flow Pressure	11 to 12	PSI
Final Closed in Pressure	945	PSI
Final Hydrostatic Pressure	2201	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 0



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Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Sandpit North Ext
Pool: WILDCAT
Job Number: 526
API #: 15-083-21981-00-00

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DST #3 **Formation:**
Mississippian **Test Interval: 4478 -**
4495' **Total Depth: 4495'**

Time On: 11:30 10/29 Time Off: 19:51 10/29
Time On Bottom: 14:11 10/29 Time Off Bottom: 17:41 10/29

BUCKET MEASUREMENT:

1st Open: Surface blow building to 3/4"
1st Close: No BB
2nd Open: Surface blow
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



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DST #3 **Formation:** **Test Interval: 4478 -** **Total Depth: 4495'**
Mississippian **4495'**
Time On: 11:30 10/29 Time Off: 19:51 10/29
Time On Bottom: 14:11 10/29 Time Off Bottom: 17:41 10/29

Down Hole Makeup

Heads Up: 28.49 FT	Packer 1: 4473 FT
Drill Pipe: 4473.92 FT <i>ID-3 1/4</i>	Packer 2: 4478 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4462.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4480 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: 17	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/4</i>	
Change Over: 0 FT	
Perforations: (below): 16 FT <i>4 1/2-FH</i>	



**Company: Raymond Oil
Company, Inc
Lease: Lewis-Frusher Unit #2**

SEC: 4 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Sandpit North Ext
Pool: WILDCAT
Job Number: 526
API #: 15-083-21981-00-00

Operation:
Uploading recovery &
pressures

DATE
October
29
2021

DST #3 **Formation:** **Test Interval: 4478 -** **Total Depth: 4495'**
Mississippian **4495'**
Time On: 11:30 10/29 Time Off: 19:51 10/29
Time On Bottom: 14:11 10/29 Time Off Bottom: 17:41 10/29

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 50 **Filtrate:** 8.8 **Chlorides:** 5,000 ppm



**Company: Raymond Oil
Company, Inc
Lease: Lewis-Frusher Unit #2**

SEC: 4 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 2294 EGL
Field Name: Sandpit North Ext
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October
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DST #3 **Formation: Mississippian** **Test Interval: 4478 - 4495'** **Total Depth: 4495'**
Time On: 11:30 10/29 Time Off: 19:51 10/29
Time On Bottom: 14:11 10/29 Time Off Bottom: 17:41 10/29

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-884-9709 * WICHTAKS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY RAYMOND OIL COMPANY, INC.

LEASE 2 LEWIS-FRUSHER UNIT

FIELD WILDCAT

LOCATION 1738' FSL ± 2496' FEL

SEC 4 TWP 21S RGE 23W

COUNTY HODGEMAN STATE KANSAS

CONTRACTOR L.D. DRILLING, INC.

SPUD 10-20-21 COMP 10-30-21

RTD 4600 LTD 4596

MUD UP 3497 TYPE MUD CHEMICAL

SAMPLES SAVED FROM _____

DRILLING TIME KEPT FROM _____

SAMPLES EXAMINED FROM _____

GEOLOGICAL SUPERVISION FROM _____

GEOLOGIST ON WELL KIM B. SHOEMAKER

ELEVATIONS

KB 2298

DT _____

GL 2293

Measurements Are All
From 2298 KB

CASING

SUBSTANCE 8 5/8" @ 260'

PRODUCTION _____

ELECTRICAL SURVEYS
DUAL IND., DENS.-N. MICRO

FORMATION TOPS 109 SAMPLES

ANHYDRITE 1493 + 805 1499 + 799

HEGNER 3782-1484 3788-1490

LANSING 3833-1535 3838-1540

B/KC 4170-1872 4176-1878

PAWNEE 4291-1993 4299-2001

FORT SCOT 4358-2060 4364-2066

CHEROKEE 4382-2084 4388-2090


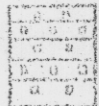
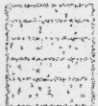
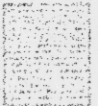

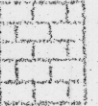
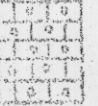
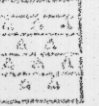
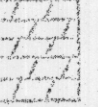
M1551551 PPI 4444-2146 4450-2152

REMARKS

- 10:20:21 SPUD
- 10:21 @ 263'
- 10:22 @ 1595'
- 10:23 @ 2410'
- 10:24 @ 2970'
- 10:25 @ 3430'
- 10:26 @ 3990'
- 10:27 @ 4285'
- 10:28 @ 4400'
- 10:29 @ 4480'
- 10:30 @ 4600'

API: 15-083-21981

LEGEND

								
Anhydrite	Salt	Sandstone	Shale	Grit sh	Limestone	Gul. Lime	Chert	Dolomite

DRILLING TIME IN MINUTES

Rate of Penetration Increases

PER FOOT
5" 10" 15" 20" 25"

DEPTH
1450

SAMPLE DESCRIPTIONS

REMARKS

1500

ANHYDRITE

1499 + 799

1550

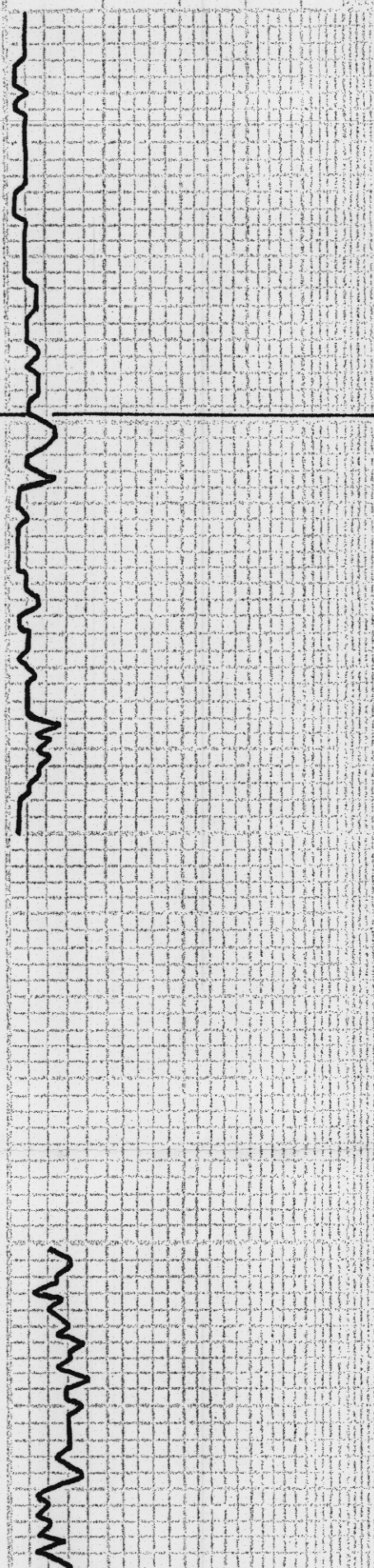
3400

Samples are Logged

sh. w/ly. Silty

sh. w/ly. Silty.

Sily. sh. Lt G. V. P. G. S. R. P.





3500

LS. w/ Lt G. Shi Foss. w/ Dec G. Foss.

LS. w/ VSh Foss Shi ch lky

LS. Lt G. VSh Foss.

LS. T. w/ VFa Ma. Sve Shi Dolomitic

LS. T. w/ Shi Foss. Calcitic

LS. Br G. Shi Foss.

LS. Lt G. VSh Δ VSh Calcitic

LS. w/ T. Foss. ool. Calcitic

LS. G. Shi Foss w/ Δ Bands

LS. w/ Foss. Sdy.

LS. T. w/ Foss. ool. Calcitic

Sh. BLK. DE G.

LS. Br VSh Foss

Sh. Lt G. G.

LS. T. w/ Shi Foss Shi ch lky

LS. Lt Br VSh Foss

LS. w/ Lt G. Foss. ool. Calcitic

LS. T. G. Foss. Calcitic

3600

3700

3800

TORONTO

Sh. Lt. G.

Ls. Lt. G. Sh. Foss. Sh. A

Δ. wt. Lt. G.

Ls. wt. VSh. Foss. Chlky.

Ls. Th. wt. Foss.ool. Calcitic

Δ. G.

Ls. wt. Foss.ool.

Ls. Th. Sh. Foss. Sh. A

Ls. wt. Th. Foss. Calcitic

Ls. wt. Th. ool. Calcitic

Δ. G. D&G.

Ls. Th. wt. Foss. Sh. Calcitic

HEEBNER 3788-1490
Sh. Bl. Carb.
Ls. Bl. VSh. Foss.

Sh. Lt. Blve

Ls. wt. Sh. Foss. Sh. A

Ls. wt. VSh. Foss. Sh. chlky.

Sh. Lt. Blve. G. Rd.

LANSING 3838-1540

Ls. wt. Sh. Foss. Sh. A VSh. Calcitic

Sh. Lt. G.

Ls. Th. wt. Foss.

3900

4000

Ls. Trwl. Foss. Shi A

Sh. DEh.

Ls. wt. VSh Foss Shi A

Ls. wt. Sh Foss Chlly.

Sh. DEh. G

Ls. Bl. G. VSh Foss

Sh. Hh.

Ls. Tr Foss. Shi A

Sh. G.

Ls. wt. Sh Foss Shi chlly.

Ls. wt. Foss. ool. chlly.

Sh. G.

Ls. Trwl. VTrxlh Sre.

Ls. wt. VSh Foss. chlly.

Ls. G. Shi A

Sh. DEh.

Ls. Bl. Shi Foss Shi Calcitic

Sh. H. G. W

Ls. wt. Sh Foss Shi A

Sh. DEh.

Ls. Bl. G. VSh Foss

Sh. H. G.

Ls. H. G. Foss. ool. VSh chlly

Sh. G.

Ls. G. Shi A

VIS: 46 WT: 8.9
WC: 8.0 CMC: 3100

Sh. Lgy.

Ls. Bl. Sil. Foss. Sh. Δ

4100

STARK 4109-1806
Sh. Blc.

Ls. wt. Sil. Foss. Sil. Δ

Ls. Gy. Sil. Foss. Sh. Δ. Sil. Calcitic

Sh. Blc. Calc.

Ls. wt. Sil. Foss. Sil. Δ

Ls. Th. VSil. Foss. Sil. Δ

B/KC 4176-1878
Sh. Lgy.

Ls. Lgy. VSil. Foss. Sil. Δ

Sh. Lt. Blue. Sdy. Silty.

4200

Ls. Th. Sil. Foss. Sil. Δ

Sh. Lt. Blue. Gyl.

Sh. Lt. Blue. Tgy.

Ls. Gy. Sil. Foss.

Ls. Lgy. VSil. Foss. Sil. Δ

Sh. Gy.

Ls. Lgy. VSil. Foss. Sil. chly.

Sh. Gy. W.

Ls. Wt. chly.

Sh. Lgy. W.

Ls. Bl. Gy. Sil. Foss.

4300

LOG PAWNEE

SH DEL.

PAWNEE 4299-2001

VIS: 55 WT: 9.2
WL: 6.4 CML: 2900

LS. Tn. SH A

LS. Tn. SH A Calcitic

LS. G. SH A

LS. G. Silty

LS. DEL. Silty

SH. Bdx. Carb.

FORT SCOT 4369-2066

LS.

LS. Tn. wt. SH Foss. SH A Pr. V. P
Bl. SH. dd. SH. V. S. F. No Flour. No Odor

CHEROKEE 4388-2090

SH. Bdx. Carb.

LS. G. coh. V. SH. Ch. lly.

4400

VIS: 55 WT: 9.3
WL: 8.0 CML: 4600

SH. Lt. Blue

LS. Lt. G. V. SH. Foss. V. SH. Ch. lly.

SH. Lt. G.

LS. G. V. SH. Foss. LS. wt. SH. Foss. SH. Ch. lly.

B/PENN 4431-2133

SH. Yellow Lt.

SH. Lt. Blue. Turq. Purple

LOG MISS

MISSISSIPPI 4450-2152

Δ wt. G. weathered w/ Blue SH

Dol. Lt. G. V. Fr. Sh. SH. Foss. Pr. V. S. P
Bl. Scat. SH. T. F. Fr. Flour. V. F. Odor

LS. Tn. Bl. SH. Foss. Calcitic

Dol. Lt. G. V. Fr. Sh. SH. Foss. V. Fr. Sh. S. V. P
Bl. Scat. SH. V. S. F. Fr. Flour. Fr. Odor

LS. Bl. SH. A

Dol. Lt. G. SH. Foss. V. Fr. Sh. S. V. P
Bl. Scat. SH. V. S. F. Fr. Flour. Fr. Odor

VIS: 50 WT: 9.1

Dol. Lt. G. SH. Foss. V. Fr. Sh. S. V. P
Bl. Scat. SH. V. S. F. Fr. Flour. Fr. Odor

DST (1)

DST (2)

DST (3)

DST (1) 4350-4400

1st OPEN: Blow built to 1"

2nd OPEN: Surface Blow

30-60-45-75

Rec. 15' Mud

Tool Sample
1% oil
99% M

FP: 11-14 15-17*

SIP: 1386-1362*

Temp.
113°F

DST (2) 4408-4480

1st OPEN: Blow built to 2"

2nd OPEN: " " " 3 1/4"

60
30-45-75

Tool Sample
57% oil
43% M

Rec. 10' Clean Oil Grav. 34.6 @ 60F

30' SMO (88% oil, 12% M)

TF: 40'

FP: 12-19 22-29

SIP: 1248-1212*

Temp.
116°F

DST (3) 4478-4495

1st OPEN: Blow built to 3/4"

2nd OPEN: Surface Blow

30-60-45-75

Tool Sample
1% oil
99% M

Rec. 2' Mud w/ Tr Oil

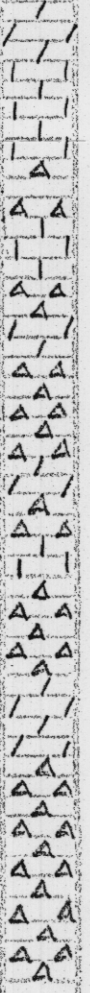
FP: 9-10 11-12*

SIP: 926-945*

Temp.
116°F

4500

WL: 0.0 CHL: 5000



4600

VIS: 50 WT: 9.1
 WL: 9.6 CHL: 5600
RTD 4600-2302

Dol. wt. V. Fresh Svc.

LS. Tr. Foss. Calcitic Tr. Glauc.

Δ G. wt. Foss.

LS. Tr. V. Fresh Sli Δ

Δ G. Foss.

Dol. wt. Hg. V. Fresh Svc.

Δ wt.

LS. Tr. Yellow Sli. Foss. Sli Δ

Δ G. U.S.

Dol. Tr. V. Fresh Svc.

Δ G. wt. Sli Foss.

Δ G. Sli Foss.



785-953-0222

TICKET NUMBER 1408 K-0
 LOCATION Hickoria Ks
 FOREMAN Walt Dinkel

**FIELD TICKET & TREATMENT REPORT
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
10-21-21		Lewis-Frusher Unit #2	4	21 S	23 W	Hamilton	
CUSTOMER		MAILING ADDRESS		TRUCK #	DRIVER	TRUCK #	DRIVER
Raymond Oil Co, Inc		ness city southto rd X 2 1/2 E 1/4 N		103	Cory D. Jones		
CITY		STATE	ZIP CODE				

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 263' CASING SIZE & WEIGHT 8 5/8 - 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 _____

REMARKS: Safety Meeting, Rig up on L.D. Dale, Circ casing on bottom
Mix 175 SKS COM, 3% CC - 2% bal, Displace 15 1/4 BBL H2O, Shut in
Cement Did Circ
Approx 3 BBL to BT

Thank You
Walt & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
	1	PUMP CHARGE	1,150 ⁰⁰	1,150 ⁰⁰
	30	MILEAGE	7 ¹⁵	214 ⁵⁰
	8.23	Ton Mileage Delivery	1 ⁷⁵	660 ⁰⁰
	175 SKS	Surface Blend II	24 ⁰⁰	4,200 ⁰⁰
				6,224 ⁵⁰
		less 25% Disc	-	1,556 ¹³
				4,668 ³⁷
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION Daniel Bason 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.



785-953-0222

TICKET NUMBER 1415 K
 LOCATION Hugoton Ks
 FOREMAN Jason Amaston
Walt Diulke

**FIELD TICKET & TREATMENT REPORT
 CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-30-21		Lewis-Frusher unit #2	4	21 ^s	23 ^w	Hodgeman
CUSTOMER Raymond Oil Co, Inc			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			103	Cory D.		
CITY			801-751	Nathan		
STATE						
ZIP CODE						

Jatmore north to Rd X 3 East N151

JOB TYPE PTA HOLE SIZE 7 7/8" HOLE DEPTH 4600' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2" - 1530' TUBING _____ OTHER _____
 SLURRY WEIGHT 13.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting, Rig up on L-D Drls, Plus as ordered

50 SKS @ 1530'
50 SKS @ 690'
50 SKS @ 300'
20 SKS @ 60'
30 SKS in Bit

200 SKS 60/40 por, 4% bel 1/4" Flo Seal

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
	1	PUMP CHARGE	1,500.00	1,500.00
	30	MILEAGE	7.15	214.50
	816	Ton Mileage Delivery	1.75	660.00
	200 - SKS	Lite Weight Blend V	16.00	3,200.00
	50 #	Flo-Sol	3.00	150.00
	1	8 5/8 Wooden Plug	75.00	75.00
				5,199.50
		Less 25% Disc	-	1,449.88
				4,349.62
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION [Signature] 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.