KOLAR Document ID: 1466933

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 #	API No.:				
Name:	Spot Description:				
Address 1:					
Address 2:	Feet from North / South Line of Section				
City:	Feet from East / West Line of Section				
Contact Person:	Footages Calculated from Nearest Outside Section Corner:				
Phone: ()	□NE □NW □SE □SW				
CONTRACTOR: License #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx)				
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84				
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
New Well Re-Entry Workover	Field Name:				
	Producing Formation:				
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:				
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:				
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet				
<ul><li>☐ CM (Coal Bed Methane)</li><li>☐ Cathodic</li><li>☐ Other (Core, Expl., etc.):</li></ul>	Multiple Stage Cementing Collar Used? Yes No				
	If yes, show depth set: Feet				
If Workover/Re-entry: Old Well Info as follows:					
Operator:	If Alternate II completion, cement circulated from:				
Well Name:	feet depth to: w/ sx cmt.				
Original Comp. Date: Original Total Depth:					
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan				
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)				
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls				
Dual Completion Permit #:	Dewatering method used:				
SWD Permit #:	Location of fluid disposal if hauled offsite:				
EOR Permit #:	·				
GSW	Operator Name:				
	Lease Name: License #:				
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West				
Recompletion Date Recompletion Date	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 Approved by: Date:						

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#### Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a     Does the volume     Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

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	

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

## Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	262	Surface Blend II	3% cc, 2% gel
Production	7.875	5.5	15.5	5020	60/40 Poz Mix	2% salt, 3% gel



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

TICKET NUMBER 56140 LOCATION FOREMAN

DATE

FIELD TICKET & TREATMENT REPORT CEMENT

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DATE	CUSTOMER#	WEI	LL NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNTY
7-9-19	4 7 9000 20	Fru	sher #1		9	- 215	2300	Hodgeman
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K	av mone	10,10	D.	- South to	TRUCK#	DRIVER	TRUCK#	DRIVER
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ACCOUNT **QUANITY or UNITS DESCRIPTION of SERVICES or PRODUCT** UNIT PRICE TOTAL CODE 1500 800 047 PUMP CHARGE 1450 715 MILEAGE 75 46 CC587 80 SKS SALES TAX ESTIMATED TOTAL AUTHORIZTION 7

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.

TITLE



Ravin 3737

LOCATION Oakles

SALES TAX ESTIMATED

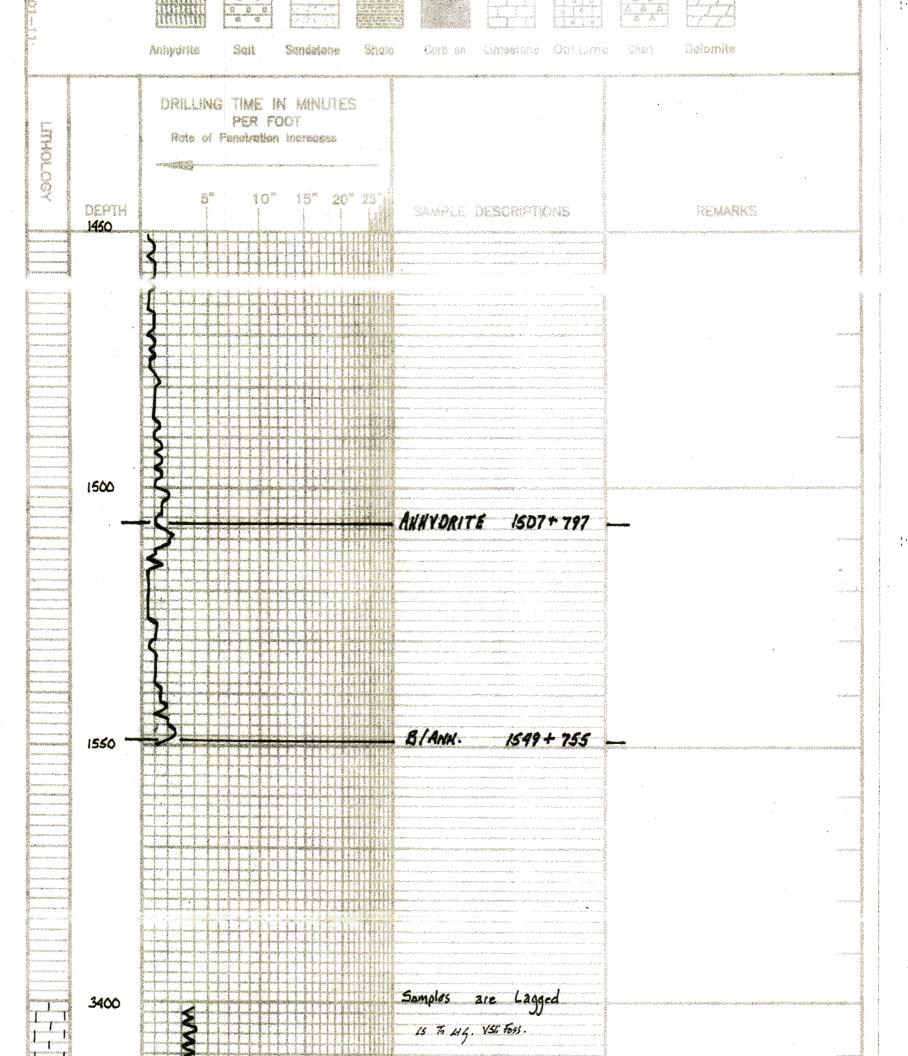
TOTAL

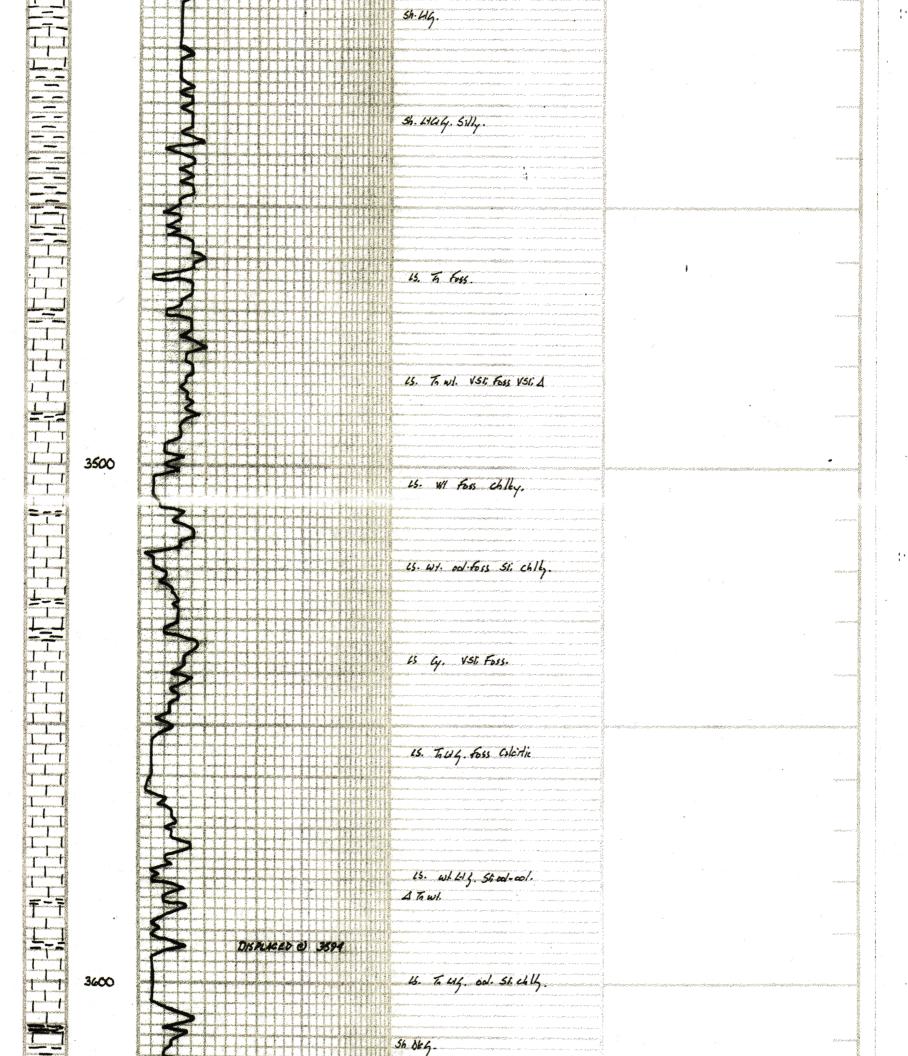
	or 800-467-8676	WELL NAME & NUM	CEMEN	SECTION	TOWNSHIP	RANGE	COUNTY
	CUSTOMER#			09	215	230	Hodos
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PO BO	X 4X +XX		E 2mile	566	Matadi	703	Cary D
CITY CLA	STATE	ZIP CODE	19	7-129	Kaleb		
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JOB TYPE LON-	stang ( DV To HOLE SI	ZE 77/8	HOLE DEPTH	1 5020	CASING SIZE &	WEIGHT 5 1/2	15.54
CASING DEPTH	5020 DRILL PI	PE	_TUBING		-	OTHER DVZ	
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Lost Ciac	Stopped @ 20 bl	ued Pumpin	Rel Cen g	at Do	not Circ	4001 C/1	Dad Plu
Lost Ciac	Street @ 20 be	ued Pumpin acement, Sty	Cem g sht Rotu	at Do	Thank  Jimnic: (	You CAN YOU ISA UNIT PRICE	Opp Plus Doff Hop TOTAL
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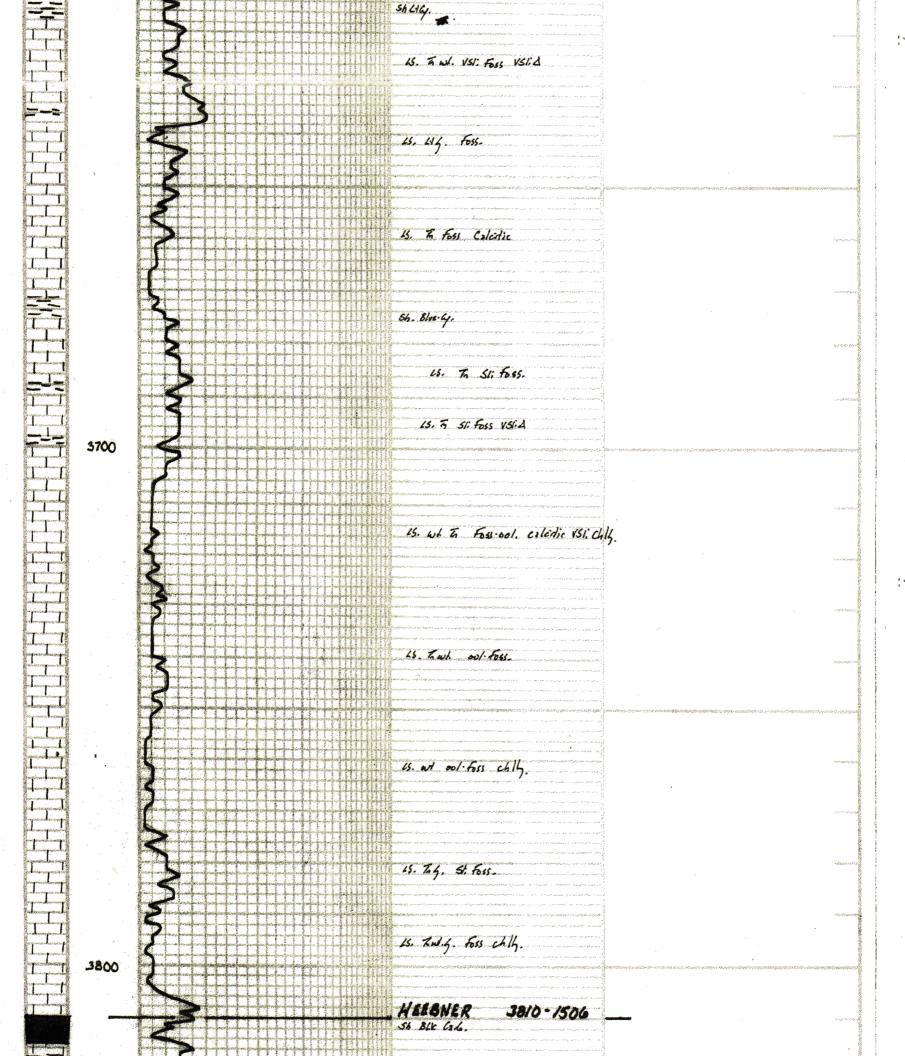
AUTHORIZTION JEFF RAWFORD L I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

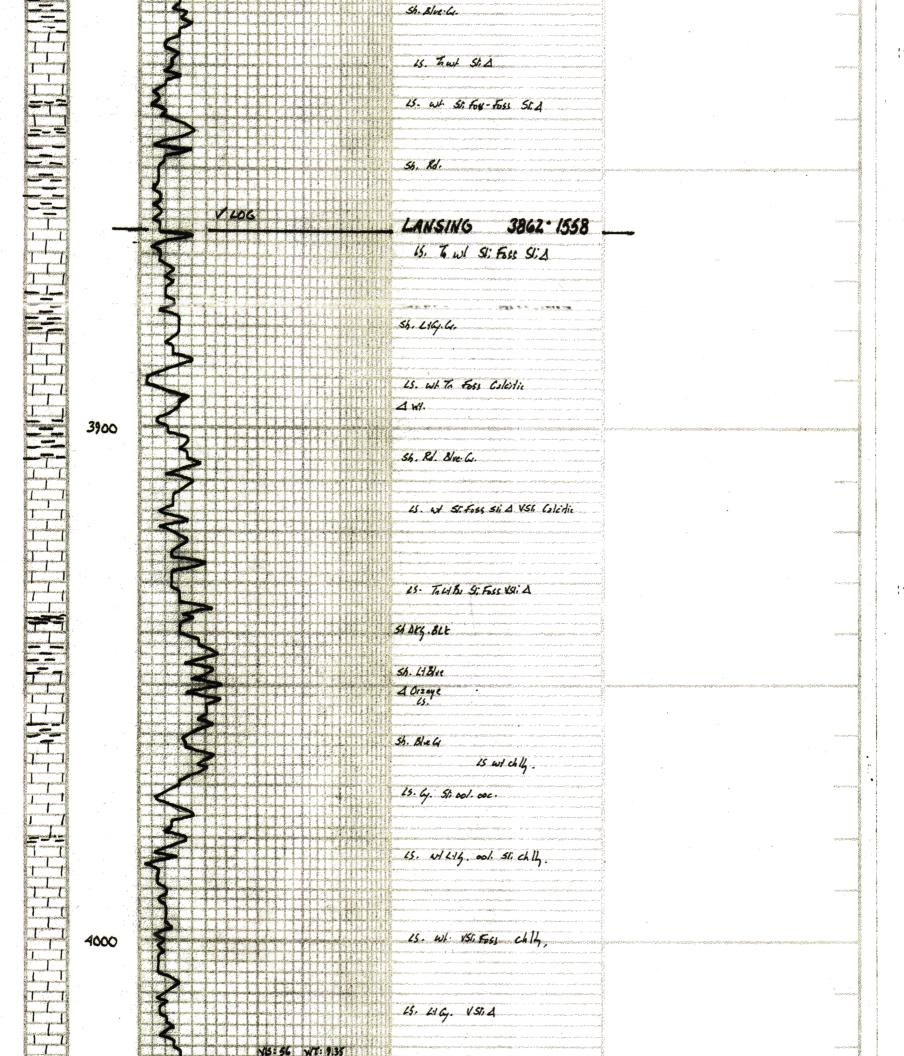
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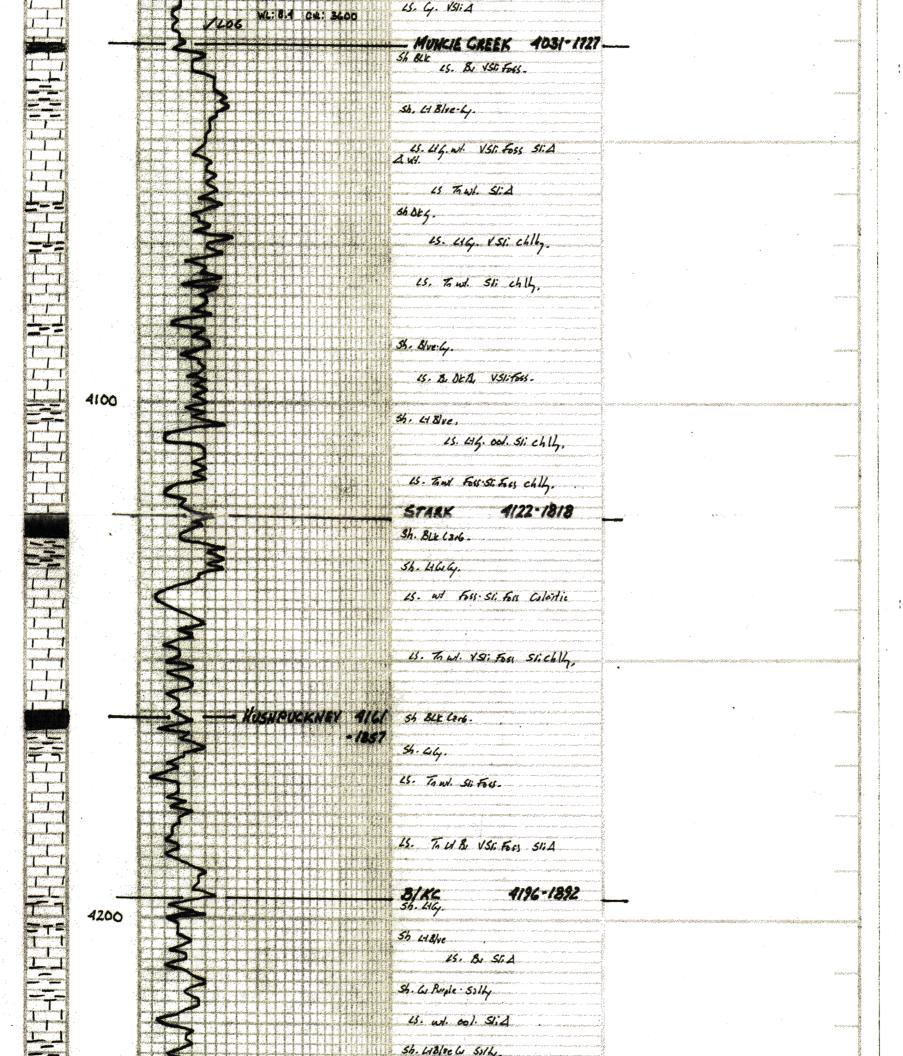
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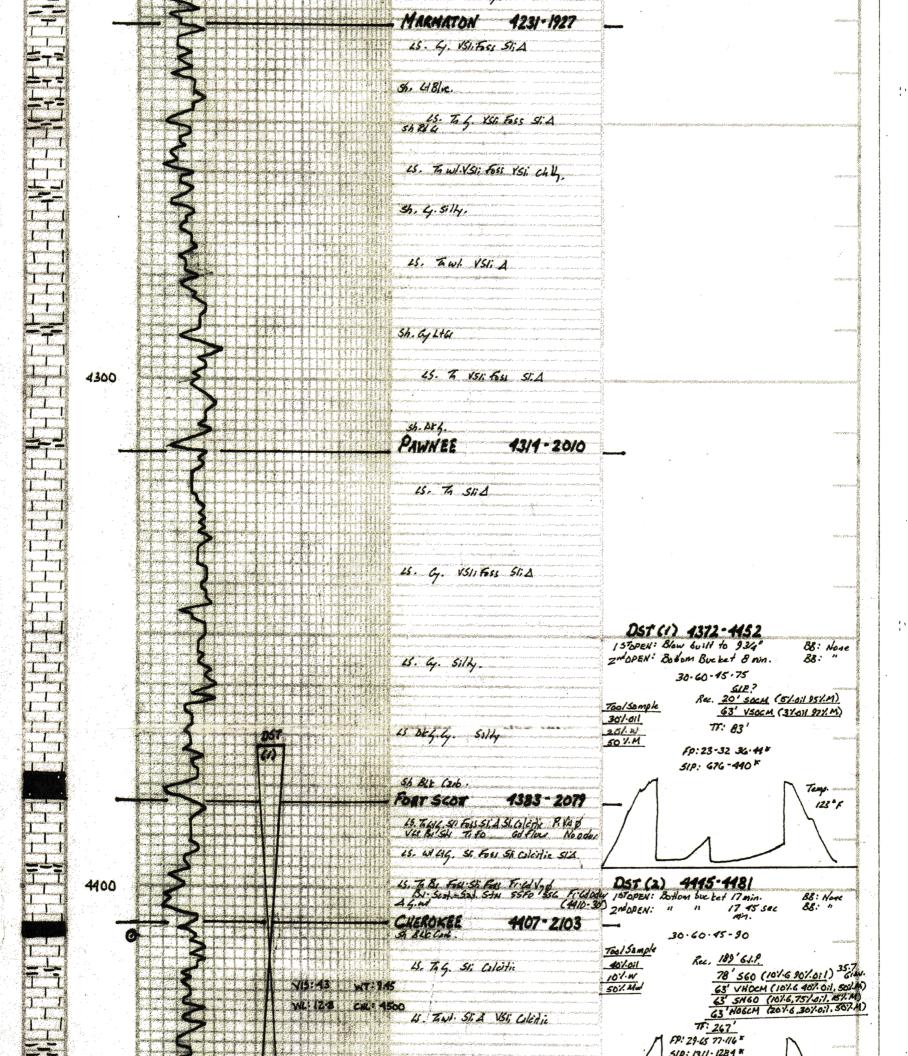


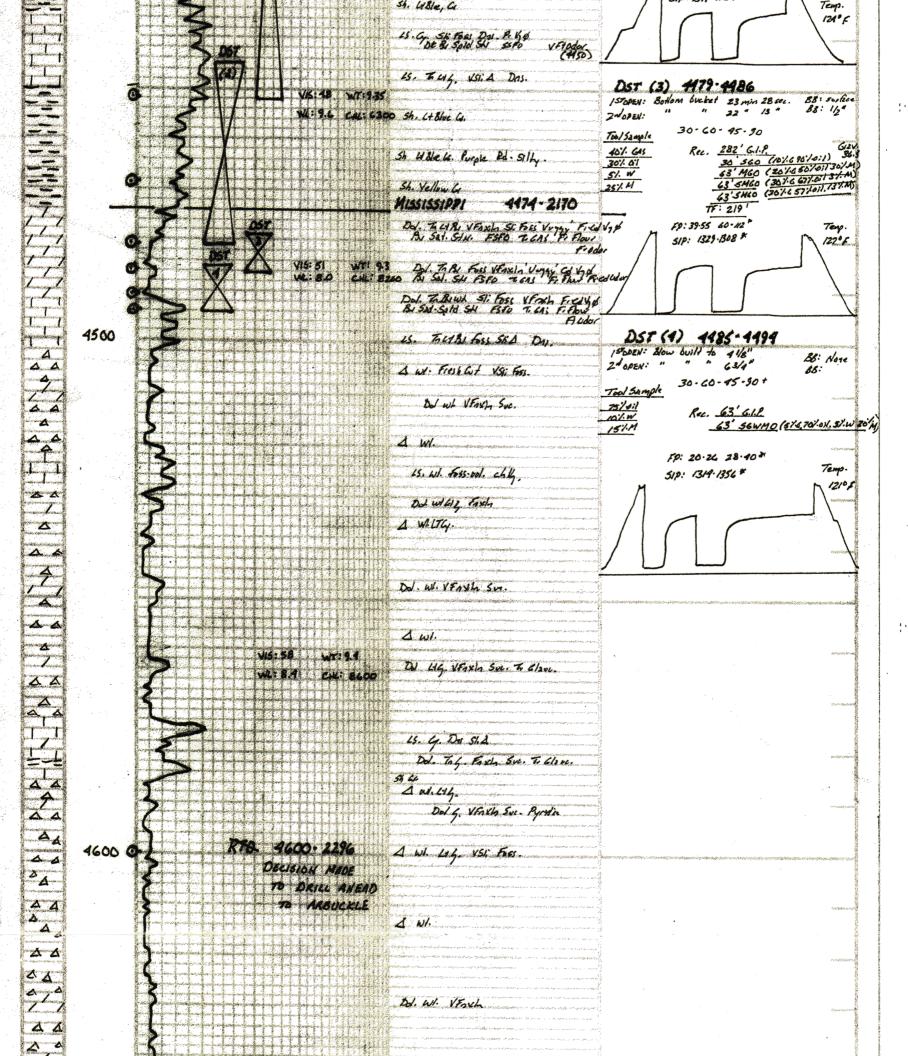












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**Company: Raymond Oil** Company, Inc Lease: Frusher #1

State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2299 GL

County: HODGEMAN

Field Name: Sandpit North

SEC: 9 TWN: 21S RNG: 23W

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 -

Total Depth: 4452'

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"

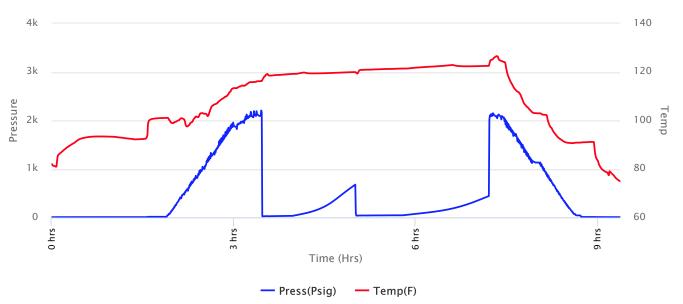
1st Close Minutes: 60 **Current Reading:** 0" at 60 min Max Reading: 0"

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





Well Complete

**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

**DATE** July 16 2019

**DST #1** Formation: Fort Scott/Cherokee

Test Interval: 4372 -

Total Depth: 4452'

4452'

Sand

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

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
20	0.2052	SLOCM	0	5	0	95
63	0.64638	SLOCM	0	3	0	97

Total Recovered: 83 ft

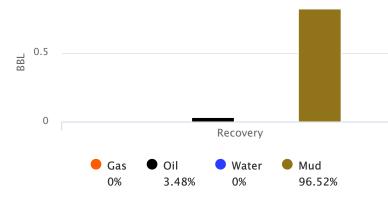
Total Barrels Recovered: 0.85158

Close / Final Close

## Reversed Out NO

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

Recovery at a glance



GIP cubic foot volume: 0



Well Complete

**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

**DATE** July 16 2019

**DST #1** Formation: Fort Scott/Cherokee Sand

Test Interval: 4372 -

Total Depth: 4452'

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



Well Complete

**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

DATE July 16 2019

Formation: Fort Scott/Cherokee

**DST #1** 

Test Interval: 4372 -

Total Depth: 4452'

4452'

Sand

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**

**Heads Up:** 32.28 FT Packer 1: 4366.91 FT

**Drill Pipe:** 4371.62 FT Packer 2: 4371.91 FT

ID-3 1/4 Top Recorder: 4356.33 FT

Weight Pipe: 0 FT **Bottom Recorder:** 4375 FT

ID-2 7/8 Well Bore Size: 7 7/8

Collars: 0 FT **Surface Choke:** ID-2 1/4

**Test Tool:** 33.57 FT **Bottom Choke:** 5/8"

ID-3 1/2-FH

Jars

Safety Joint

**Total Anchor:** 80.09

**Anchor Makeup** 

Packer Sub: 1 FT

Perforations: (top): 12 FT

4 1/2-FH

**Change Over:** .5 FT

Drill Pipe: (in anchor): 63.09 FT

ID-3 1/4

**Change Over:** .5 FT

Perforations: (below): 3 FT 4 1/2-FH



Well Complete

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

DATE
July
16
2019

DST #1 Formation: Fort Scott/Cherokee

Test Interval: 4372 -

Total Depth: 4452'

4452'

Sand

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

Operation:
Uploading recovery & pressures

Lease: Frusher #1

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

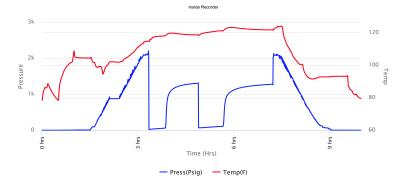
**DATE**July **17**2019

DST #2 Formation: Mississippian Test Interval: 4445 - Total Depth: 4481' 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'

1st Open Minutes: 30 Current Reading: 18.2" at 30 min Max Reading: 18.2" 1st Close Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0" 2nd Open Minutes: 45 Current Reading: 26.7" at 45 min Max Reading: 26.7" 2nd Close Minutes: 90 Current Reading: 0" at 90 min





Company: Raymond Oil Company, Inc

Lease: Frusher #1

Operation: Uploading recovery & pressures SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling, IncRig 1
Elevation: 2299 GL
Field Name: Sandpit North
Pool: WILDCAT
Job Number: 371

API #: 15-083-21969

Recovery at a glance

DATE
July
17
2019

DST #2 Formation: Mississippian Test Interval: 4445 - 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

Iotal Barrels Recovered:	4.67856	NO NO	2						
Initial Hydrostatic Pressure Initial Flow Initial Closed in Pressure Final Flow Pressure	2100 29 to 65 <b>1311</b> 77 to 116	PSI PSI <b>PSI</b> PSI	BBL 1						
Final Closed in Pressure	1284	PSI	0			R	Recovery		
Final Hydrostatic Pressure	2086	PSI					,		
Temperature	124	°F			Gas 48.68%	● Oil 35.43%	Water 0%	Mud 15.89%	
Pressure Change Initial Close / Final Close	2.1	%	GIP (	cubic	foot volume: 1	2.78826			



Company: Raymond Oil Company, Inc

Lease: Frusher #1

DST #2



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

DATE July **17** 2019

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

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

DATE July **17** 

DST #2

Formation: Mississippian

Test Interval: 4445 - Total Depth: 4481'

Time On: 14:01 07/17 Time On Bottom: 17:15 07/17 Time Off Bottom: 21:00 07/17

Time Off: 23:43 07/17

#### **Down Hole Makeup**

Heads Up: 22.69 FT Drill Pipe: 4435.12 FT ID-3 1/4 Weight Pipe: 0 FT ID-2 7/8 Collars: ID-2 1/4 Test Tool: 33.57 FT ID-3 1/2-FH

Packer 1: 4440 FT Packer 2: 4445 FT Top Recorder: 4429.42 FT Bottom Recorder: 4447 FT Well Bore Size: 7 7/8 Surface Choke: 1" Bottom Choke: 5/8"

Total Anchor: 36 Anchor Makeup
Packer Sub: 1 FT

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

Change Over: 0 FT 0 FT

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

Change Over: 0 FT Perforations: (below): 35 FT

4 1/2-FH



Uploading recovery pressures

**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

DATE July 17 2019

Formation: Mississippian DST #2

Test Interval: 4445 - Total Depth: 4481' 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**

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



**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

DATE July 17 2019

DST #2

Test Interval: 4445 - Total Depth: 4481' 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 Operation:

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

DATE July 18 2019

pading recovery 8

DST #3 Formation: Mississippian Total Depth: 4486'

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

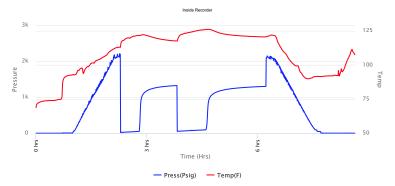
Time Off: 14:50 07/18

Electronic Volume Estimate: 419'

1st Open Minutes: 30 Current Reading: 14" at 30 min Max Reading: 14"

.1" at 60 min Max Reading: .1"

2nd Open Minutes: 45 Current Reading: 21.1" at 45 min Max Reading: 21.1" .5" at 90 min





loading recovery

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

DATE July 18 2019

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

API #: 15-083-21969

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

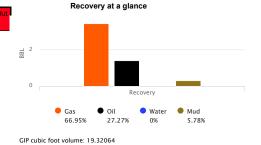
Recovered

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

Initial Hydrostatic Pressure	2152	PSI
Initial Flow	39 to 55	PSI
Initial Closed in Pressure	1329	PSI
Final Flow Pressure	60 to 112	PSI
Final Closed in Pressure	1308	PSI
Final Hydrostatic Pressure	2129	PSI
Temperature	127	°F
Pressure Change Initial	1.6	%
Close / Final Close		





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

DATE July 18 2019

DST #3 Formation: Mississippian

Test Interval: 4479 - 4486' Total Depth: 4486'

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.

Time On: 06:26 07/18

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"

Tool Sample: 40% Gas 30% Oil 5% Water 25% Mud

Gravity: 36.3 @ 60 °F



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

Operation:

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

DATE July 18

DST#3

Formation: Mississippian

Test Interval: 4479 - Total Depth: 4486' 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** 

Heads Up: 20.19 FT

Packer 1: 4474 FT Packer 2: 4479 FT

Drill Pipe: 4466.62 FT ID-3 1/4

Top Recorder: 4463.42 FT

Weight Pipe: 0 FT ID-2 7/8

Bottom Recorder: 4481 FT

Collars:

Well Bore Size: 7 7/8 Surface Choke: 1"

ID-2 1/4 Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH Jars

Safety Joint

Total Anchor: 7 Anchor Makeup
Packer Sub: 1 FT Perforations: (top): 0 FT 4 1/2-FH

Change Over: 0 FT 0 FT Drill Pipe: (in anchor):

ID-3 1/4

Change Over: 0 FT Perforations: (below): 6 FT

4 1/2-FH



Uploading recovery pressures

**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

DATE July 18 2019

Formation: Mississippian DST#3

Test Interval: 4479 - Total Depth: 4486' 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**

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



**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

DATE July 18 2019

DST#3

Test Interval: 4479 - Total Depth: 4486' 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** 

Operation: Uploading recovery & pressures

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

**DATE** July 18 2019

**DST #4** Formation: Mississippian Test Interval: 4485 -

Total Depth: 4494'

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'

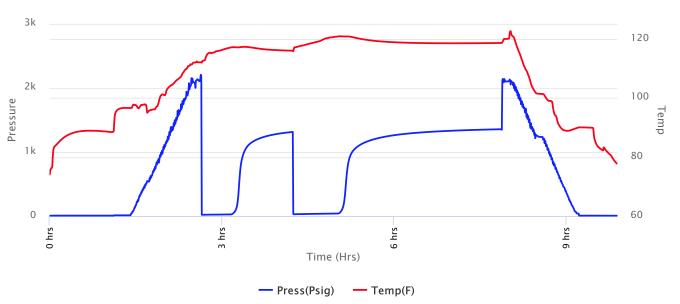
1st Open Minutes: 30 **Current Reading:** 4.1" at 30 min Max Reading: 4.1"

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

Operation:
Uploading recovery &
pressures

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

<b>DATE</b>			
July			
18			
2019			

DST #4 Formation: Tes Mississippian

Test Interval: 4485 - Total Depth: 4494'

4494'

Time On Bottom: 00:23 07/19 Time Off Bottom: 04:08 07/19

#### Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid
63	0.64638	G
63	0.64638	SLWCSLGCMCO

<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
100	0	0	0
5	70	5	20

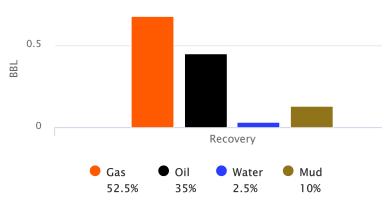
Total Recovered: 126 ft

Total Barrels Recovered: 1.29276

Reversed Out
NO

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

Recovery at a glance



GIP cubic foot volume: 3.81056



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

Time On: 21:49 07/18

Operation: Uploading recovery & pressures

Rig 1 Elevation: 2299 GL

Drilling Contractor: L. D. Drilling, Inc -

SEC: 9 TWN: 21S RNG: 23W

Total Depth: 4494'

Field Name: Sandpit North

County: HODGEMAN State: Kansas

Pool: WILDCAT

Job Number: 371 API #: 15-083-21969

**DATE** July 18 2019

DST #4 Formation: Test Interval: 4485 -Mississippian 4494'

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** Lease: Frusher #1

Company, Inc

Rig 1

Drilling Contractor: L. D. Drilling, Inc -

Elevation: 2299 GL

County: HODGEMAN State: Kansas

Field Name: Sandpit North

SEC: 9 TWN: 21S RNG: 23W

Pool: WILDCAT Job Number: 371 API #: 15-083-21969

Operation: Uploading recovery & pressures

**DATE** 

July

18

2019

**DST #4** Formation:

Mississippian

Test Interval: 4485 -

Total Depth: 4494'

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**

**Heads Up:** 14.19 FT Packer 1: 4480 FT

**Drill Pipe:** 4466.62 FT Packer 2: 4485 FT

1"

ID-3 1/4

Top Recorder: 4469.42 FT

Weight Pipe: 0 FT

**Bottom Recorder:** 4487 FT

ID-2 7/8

Collars: 0 FT Well Bore Size: 7 7/8

ID-2 1/4

**Surface Choke:** 

**Test Tool:** 33.57 FT **Bottom Choke:** 5/8"

ID-3 1/2-FH

Jars

Safety Joint

**Total Anchor:** 

**Anchor Makeup** 

Packer Sub: 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

8 FT

4 1/2-FH

Perforations: (below):



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 -

Total Depth: 4494'

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** 

Operation: Uploading recovery & pressures

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

**DATE** July 18 2019

DST #4 Formation: Mississippian

Test Interval: 4485 -

Total Depth: 4494'

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	