

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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Form	ACO1 - Well Completion
Operator	Raymond Oil Company, Inc.
Well Name	FRUSHER 2
Doc ID	1471068

All Electric Logs Run

Micro
Dual Ind
Comp N/D
Sonic



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

100808
41004

INV 901200

TICKET NUMBER 55990 ✓
LOCATION Calley ks.
FOREMAN Cory Davis

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-23-14	7158	Frusher #2	9	210	23 ^w	Hodgepeth
CUSTOMER: Raymond oil			Muss city 5th box 2 1/2 E Sinit			
MAILING ADDRESS: PO BOX 48788			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY: Wichita STATE: KS ZIP CODE: 67201			760	Kaleb C	703	Cory D
			566	Alex H		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 263 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 20'
 DISPLACEMENT 15 1/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting. Rig up on LD, circ casing on bottom
 mix 180 sks cem 3% cc 2% gal wash up + Displace 15 1/4 BBL shut in
 rig down

Cement Did Circle
 A Prot BBL to Apt

Thank You
 From Cory + Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
✓ CE 0471	1	PUMP CHARGE	1.150	1.150
✓ CE 0002	30	MILEAGE	7.15	214.50
✓ CE 0711	8.46	Ten Mileage Delivery min	1.75	660.00
5162 ✓ CE 5871	190 sks	Surface Blend II	24.00	4320.00
			Subtotal	6394.50
			25% Disc	1586.13
			Subtotal	4758.37 ✓
			SALES TAX	247.86
			ESTIMATED TOTAL	5006.23

HAVIN 3737
 AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



CONSOLIDATED
Oil Well Services, LLC

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

FIELD TICKET & TREATMENT REPORT
CEMENT

INV 901243
TICKET NUMBER 55078 ✓
LOCATION Oakley, KS
FOREMAN Jimmie Cottrell
Cory Davis
Walt Dinkel
KS

100884
41077

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
8-1-19 ✓	7158 ✓	Frusher 2 ✓	09	215	23 ^W	Noweman	
CUSTOMER Raymond Oil Co ✓		Neosho South to Rd X E 3 miles S into		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS PO BOX 48788				753	Alex	1098	Walt
CITY Wichita		STATE KS		566	Kaleb	703	Cory
ZIP CODE 67201				T-129	Neil		
				697	Jimmie		
JOB TYPE	HOLESIZE	HOLE DEPTH	CASING SIZE & WEIGHT				
Longstring DV Tool	7 7/8	4645	5 1/2 15.5 #				
CASING DEPTH	DRILL PIPE	TUBING	OTHER DV Tool @ 1538'				
4643							
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING				
14.2/12.5							
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE				
109/36.5							
REMARKS: Safety Meeting Rig up on LD Run Float Equipment Circ casing on bottom Pump 500 gal Mud flush mix 125 sacks Thixblend III wash pump & Lines Release Plug Displace 70 bbls H ₂ O 40 bbls Mud @ 1000 land plug @ 1400 Release Pressure Float Hold open DV Tool and circ Tool open @ 200 Mix 30 sks in Rathole mix 370 sks down casing wash Pump & Lines Release plug Displace 36.5 bbls H ₂ O @ 700 Land Plug @ 1700 Release Pressure to check tool Tool is closed Rig down CEMENT DID CIRCULATE							

Thank You
Jimmie & Crew

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	24.97 (749.10)	Tan Mileage Delivery	1.75	1310.73
SNS ✓ CC5862	125 sks	Thixblend III	26.00	3250.00
✓ CC6077	200 625 lb	Kolseal	.50	312.50
SNS ✓ CC5831	200 400 sks	Lightweight Blend VII	17.50	7000.00
✓ CC6075	200 lb	Floccal	3.00	600.00
SNS ✓ CC6125	500 gal	Mud Flush	.65	325.00
✓ CP8495	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 Turbolizers	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
				25,352.93
			-25% Discount	6,338.23
				19,014.70 ✓
			SALES TAX	1206.45
			ESTIMATED TOTAL	20221.15

AUTHORIZATION _____ TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-884-9709 * WICHITAS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: **RAYMOND OIL COMPANY, INC.**

WELL NO: *** 2 FRUSNER**

ELEVATIONS

KB 2293

LOG DEPTH: **593' FNL & 1233' FEL**

GL 2288

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

COUNTY: **Hobbsman** STATE: **Kansas**

MEASURED TO THE WELL
FROM: **2293 KB**

CONTRACTOR: **L. O. DRILLING, INC.**

SPUD: **7-22-19** OVER: **8-1-19**

LOG NO: **4645** CHEMICAL

LOG NO: **3500**

CASING
DUAL END, DEN-S-N, W/200
SONIC

SAMPLES SAVED FROM

3400 TO 4645

DRILLING TIME KEPT FROM

3400 TO 4645

SAMPLES EXAMINED FROM

3400 TO 4645

GEOLOGICAL SUPERVISION FROM

3700 TO 4645

GEOLOGIST ON WELL

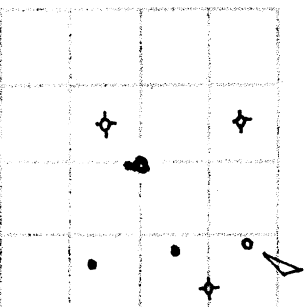
Kim B. Shoemaker

FORMATION TOPS

LOG

SAMPLES

AMMIDILITE	1494 + 799	1493 + 800
HEBNER	3801 - 1508	3801 - 1508
LANSING	3854 - 1561	3854 - 1561
GLK	4192 - 1899	4191 - 1898
MARMAATON	4232 - 1939	4231 - 1938
PAWNEE	4313 - 2220	4309 - 2016
FORT SCOT	4380 - 2587	4378 - 2085
CHEYENNE	4446 - 2113	4403 - 2110
MISSISSIPPI	4480 - 2187	4484 - 2191

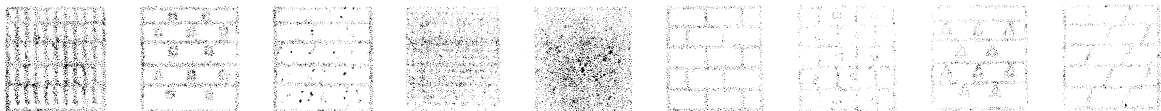


REMARKS

7-22-19 SPUD
7-23 @ 263'
7-24 @ 1570'
7-25 @ 2460'
7-26 @ 2935'
7-27 @ 3407'
7-28 @ 3960'
7-29 @ 4314'
7-30 @ 4478'
7-31 @ 4478'
8-1 @ 4645'

API: 15-083-21970

LEGEND



LITHOLOGY

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration increases



DEPTH
1450

SAMPLE DESCRIPTIONS

REMARKS

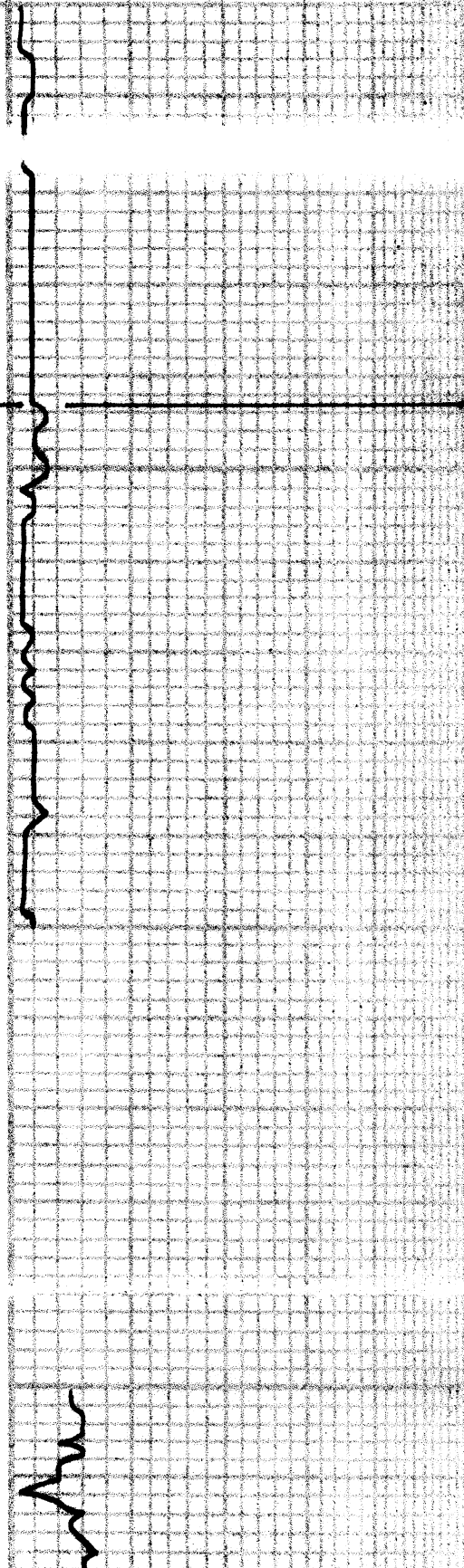
1500

ANHYDRITE 1493 + 800

1550

3400

Samples are tagged
15. Lt Gy. Sh. Foss.



Sh. Lt G. Silty. Sdy

Ls. M. Sil Foss. vsli A

Ls. Ta G. Sil Foss.

Ls. wt To Foss. Calcitic

Sh. Lt G.

Ls. wt. Foss. Calcitic

Ls. wt Lt G. Foss. vsli chly.

Ls. wt Lt G. ool. Sil Foss. Calcitic

Sh. Pl.

Ls. Ta Lt G. Sil Foss.

3500

3600

3700

ls wt. Spool. col. chly.

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

Sb. H. G. G. G.

LS. G. V. Sl. Foss.

Sh. D. G. B. L. L.

Sh. L. G. G.

A. G. G.

LS. wt. G. G. Foss.

LS. wt. Foss. Sl. chly.

LS. To Foss. col.

LS. To Foss. Sl. Calcitic

LS. wt. Sl. Foss. Sl. A

LS. To wt. Sl. Foss. Foss. Sl. chly.

3800

HEBNER 3801-1608
Sb. Bk. Carb.

Sh. Lt. Blue G.

LS. To wt. Sl. Foss. Sl. chly.

LS. Ltg. vsli Foss.

Sh. Blue G.

LANSING 3854-1561

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

Sh. Blue G.

A wt.

LS. wt. Sl. Foss. Sl. A

Sh. G. Silty

LS. To wt. Foss. Sl. A

A wt.

LS. wt. Sl. Foss. Sl. Chly.

Sh. Blk.

Sh. Ltg.

LS. Ltg. vsli Foss. Sl. A

LS. To wt. Foss. Calcitic

Sh. Rd

LS. wt. Ltg. Foss. wt. vsli Chly.

LS. wt. Sl. Foss. Sl. A

A. I. 12.

LS. Ltg. Sl. Foss. Sl. Chly.

MUNCIE CREEK 4024-1731

Sh. Blk. BK G.

LS. Ltg. vsli Foss.

Sh. Ltg. bk.

3900

4000

VIS: 37 WT: 0.8
WL: 2.8 CW: 4600

Auto Driller

LS. wt. L.G. sh. Foss. vsli.A

LS. To G. vsli.A

sh. G

sh. Lt. To G.

LS. To sh. Foss. sh.A

sh. L.G.

Δ wt

LS. To wt. vsli.Foss vsli.A

sh. L.G.

LS. To G. sh. Foss. col.

LS. Bl. sh. Foss

STARK 4121-1828
sh. BLE Carb.

sh. L.G. G

LS. wt. G. sh. col. Foss sh. Calcitic

LS. To wt. sh. Foss vsli.A

HUSNPUCKNEY 4156-1863
sh. BLE Carb.

LS. L.G. Foss sh. Calcitic

LS. wt. chly.

LS. wt. sh. Foss Calcitic

B/KC 4191-1898

sh. L.G. G
A Bl

LS. To Bl. sh.A

sh. Lt. Bluey Silty

LS. G. sh.A vsli.Foss

sh. Lt. Bluey Silty

MARMATON 4231-1938

LS. To L.G. vsli.Foss sh.A

sh. Rd
11.1 G-11

4100

4200

Auto Driller Down.

Sh. Rd. G.

LS. Ltg. VSh. Foss.

LS. Talg. Slid.

Ls. Talg. Slid. VSh. Foss.
Sh. Ltg.

LS. wt. Sh. Foss. Slid.

PAWNEE 4309-2016
Sh. Dec.

LS. G. VSh. A

VS: 51
WT: 9.2
WU: 7.8
CUL: 4500

LS. Ltg. G. VSh. A VSh. Foss.

LS. G. Ltg. Silky

LS. G. Dec. Silky

Sh. Blk Carb.
FORT SLOTT 4378-2085

LS. Talg. Sh. Foss. Slid. VSh. Colectic

LS. Ltg. Slid. VSh. Foss.

LS. wt. Sh. Foss. VSh. Chlg.

Δ G. wt.
CHAROKE 4403
Sh. Blk Carb. - 2110

LS. Bl. G. VSh. Foss. Slid.

Δ Bl. Sh. Foss.

LS. G. Sh. Foss. VSh. A

Sh. Dec.

LS. Bl. Sh. Foss. Slid.

Sh. Ltg.
LS. Talg. VSh. A
B/ PENN 4446-2153

Sh. Lt. Blue To VSh. Sdy

Auto Driller Repaired.

Pipe Strap.
Bl 4498.7
Strap 4497.74
1.97 short

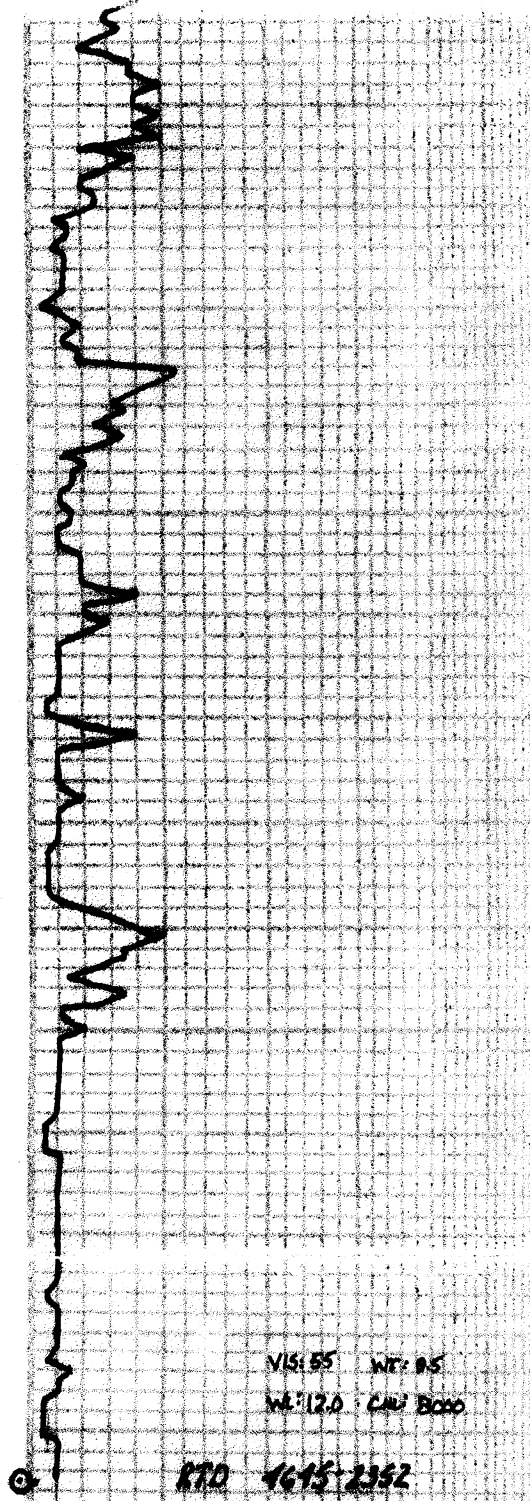
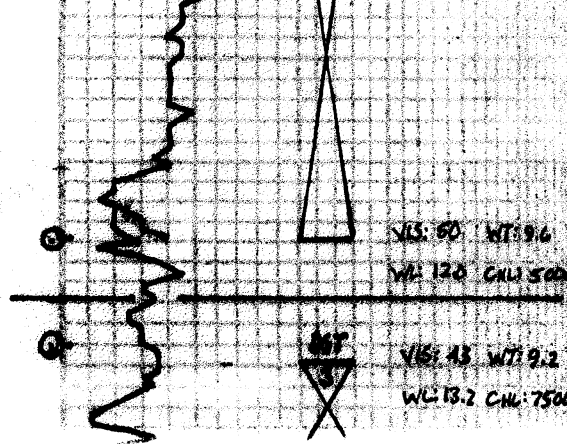
DST (1) 4442-4478
Hit Bridge @ 3100'

DST (2) 4442-4478
15' OPEN: Bottom bucket 5 min. 88: Bucket 22 min.
Bottom
88: New

4300

4400

DST
(1)
(2)



4600

870 4615-2352

Sh. Yellow Gr. Blve.

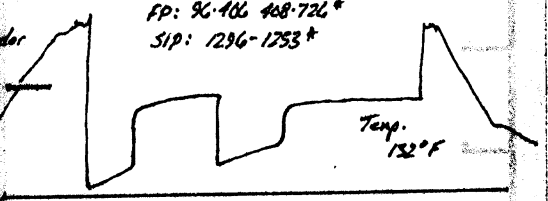
Δ wt. Ltg. vsa. Foss. w/ Recedge SW 8570

sd. Co. V. Co. Cl. Sub. Rd. P. J. J. J. J.
 V. Li. Bi. Sh. 5570 F. 1000 F. 1000 F. 1000
 MISSISSIPPI 1987-2191
 Dol. T. Ltg. V. Foss. Sw. P. P. P. P. P.
 Bi. Sp. Sh. T. P. P. P. P. P. P.

Dol. T. Ltg. St. Foss. V. Foss. Sw. P. P. P.

2ND OPEN:
 Tool Sample
 30' G/L
 35' Oil
 5' Wtr
 30' Mud

30-60-45-90
 Rec. 378' G.L.P.
 1577' Clean Oil 39.9 Gravel
 180' SWC/MO (30% G. 30% Oil 15% W)
 190' HOGCWM (30% G. 30% Oil 25% W)
 TF: 1956' 15' W 35' (M)
 FP: 96-106 408-726*
 SIP: 1296-1753*



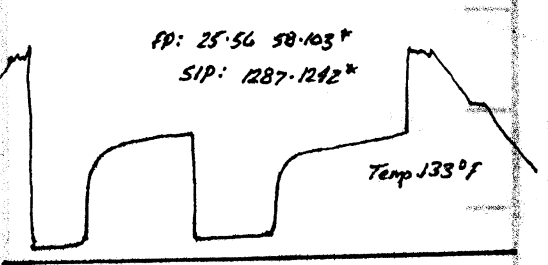
Dol. T. Ltg. V. Foss. Sw. P. P. P. P. P.
 Sp. Sh. V. Foss. F. Foss. F. Foss.

1ST OPEN: Blow count to 6' 16" 88: None
 " " " " 8" 88: "
 2ND OPEN:
 30-60-45-75

LS. T. W. St. Foss. St. Ch. G.

Tool Sample
 Rec. 190' SHW (15' M 85% W)
 CWL: 28,000

Δ wt. V. Li. Foss. St. A



LS. T. St. Foss. Calc. Int.

Δ wt. Ltg.

Dol. T. Ltg. F. W. Sw.

Δ wt.

Dol. Ltg. V. Foss. Sw.

Δ wt. St. Foss.

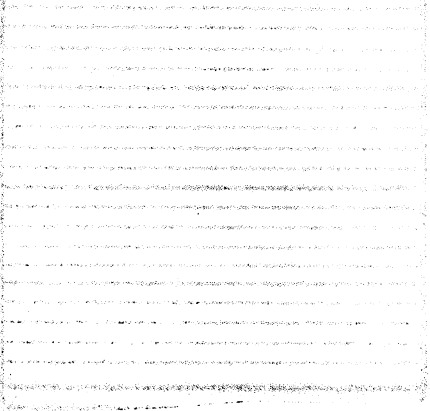
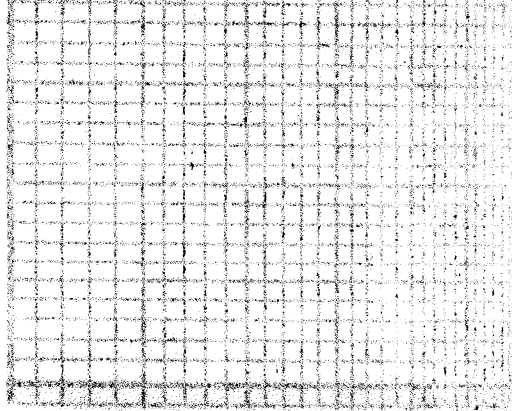
LS. T. Bi. St. Foss. St. A

Dol. T. W. V. Foss. Sw. w/ T. Clave.

Δ wt. Ltg. V. Li. Foss.

Δ wt. Ltg.

Δ wt. Ltg. V. Li. Foss.





Company: Raymond Oil Company, Inc
Lease: Frusher #2

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: 370
 API #: 15-083-21970

Operation:
 Uploading recovery & pressures

DATE
 July
30
 2019

DST #1 **Formation: Miss** **Test Interval: 4442 - 4478'** **Total Depth: 4478'**
 Time On: 05:16 07/30 Time Off: 07:29 07/30
 Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Electronic Volume Estimate:
 0'

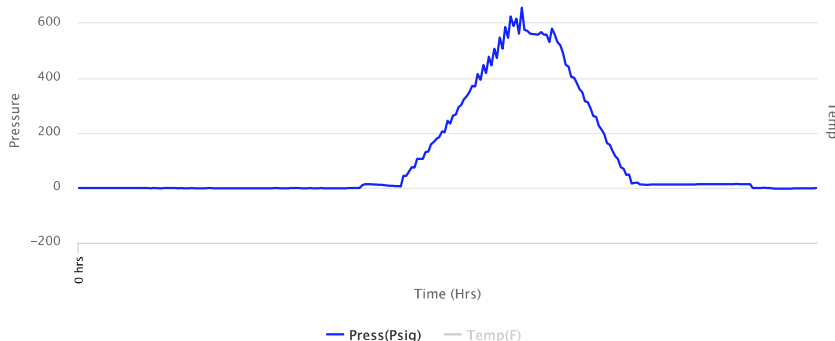
1st Open
 N/A

1st Close
 N/A

2nd Open
 N/A

2nd Close
 N/A

Inside Recorder



Company: Raymond Oil Company, Inc
Lease: Frusher #2

SEC: 9 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2299 GL
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30
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DST #1 **Formation: Miss** **Test Interval: 4442 - 4478'** **Total Depth: 4478'**
 Time On: 05:16 07/30 Time Off: 07:29 07/30
 Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Recovered

Foot BBLs Description of Fluid Gas % Oil % Water % Mud %

Total Recovered: 0 ft
 Total Barrels Recovered: 0

Reversed Out
 NO

Initial Hydrostatic Pressure	0	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	0	PSI
Temperature	0	°F
Pressure Change Initial Close / Final Close	0.0	%



**Company: Raymond Oil
Company, Inc**
Lease: Frusher #2

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: 370
API #: 15-083-21970

Operation:
Uploading recovery &
pressures

DATE
July
30
2019

DST #1 Formation: Miss Test Interval: 4442 - Total Depth: 4478'
4478'
Time On: 05:16 07/30 Time Off: 07:29 07/30
Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

BUCKET MEASUREMENT:
1st Open: Miss
2nd Open: Run

REMARKS:
Hit a bridge 20 stands in tried several times to get past it with no luck



**Company: Raymond Oil
Company, Inc**
Lease: Frusher #2

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: 370
API #: 15-083-21970

Operation:
Uploading recovery &
pressures

DATE
July

DST #1 Formation: Miss Test Interval: 4442 - Total Depth: 4478'
4478'

30
2019

Time On: 05:16 07/30 Time Off: 07:29 07/30
Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Down Hole Makeup

Heads Up: 22.62 FT	Packer 1: 4437 FT
Drill Pipe: 4432.05 FT <i>ID-3 1/4</i>	Packer 2: 4442 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4426.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4479 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: 36	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 35 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/4</i>	
Change Over: FT	
Perforations: (below): FT <i>4 1/2-FH</i>	



Operation:
Uploading recovery &
pressures

**Company: Raymond Oil
Company, Inc
Lease: Frusher #2**

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: 370
API #: 15-083-21970

DATE
July
30
2019

DST #1 Formation: Miss Test Interval: 4442 - 4478' Total Depth: 4478'

Time On: 05:16 07/30 Time Off: 07:29 07/30
Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 51 **Filtrate:** 7.8 **Chlorides:** 4500 ppm



**Company: Raymond Oil
Company, Inc
Lease: Frusher #2**

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: 370
API #: 15-083-21970

Operation:
Uploading recovery &
pressures

DATE
July
30
2019

DST #1 Formation: Miss Test Interval: 4442 - Total Depth: 4478'
4478'
Time On: 05:16 07/30 Time Off: 07:29 07/30
Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: Raymond Oil Company, Inc
Lease: Frusher #2

SEC: 9 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2288 GL
 Field Name: Sandpit North
 Pool: WILDCAT
 Job Number: 370
 API #: 15-083-21970

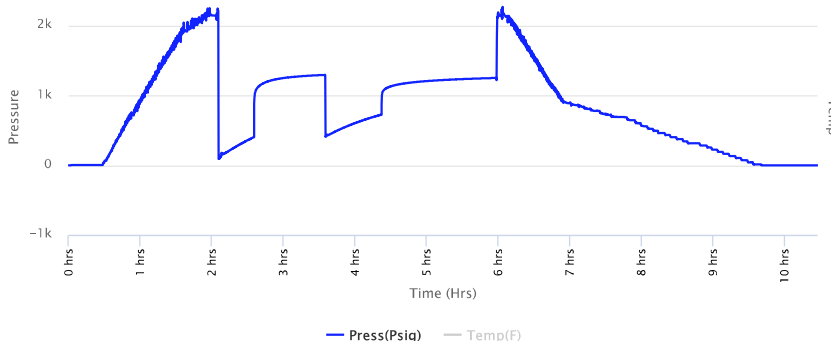
Operation:
 Uploading recovery & pressures

DATE
 July
30
 2019

DST #2 **Formation: Cherokee** **Test Interval: 4442 - 4478'** **Total Depth: 4478'**
 Time On: 14:37 07/30 Time Off: 01:31 07/31
 Time On Bottom: 17:16 07/30 Time Off Bottom: 21:01 07/30

Electronic Volume Estimate: 2617"	1st Open Minutes: 30 Current Reading: 122.3" at 30 min Max Reading: 122.3"	1st Close Minutes: 60 Current Reading: 13.5" at 60 min Max Reading: 13.7"	2nd Open Minutes: 45 Current Reading: 137.9" at 45 min Max Reading: 137.9"	2nd Close Minutes: 90 Current Reading: 0" at 90 min Max Reading: 0"
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Inside Recorder



Company: Raymond Oil Company, Inc
Lease: Frusher #2

SEC: 9 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2288 GL
 Field Name: Sandpit North
 Pool: WILDCAT
 Job Number: 370
 API #: 15-083-21970

Operation:
 Uploading recovery & pressures

DATE
 July
30
 2019

DST #2 **Formation: Cherokee** **Test Interval: 4442 - 4478'** **Total Depth: 4478'**
 Time On: 14:37 07/30 Time Off: 01:31 07/31
 Time On Bottom: 17:16 07/30 Time Off Bottom: 21:01 07/30

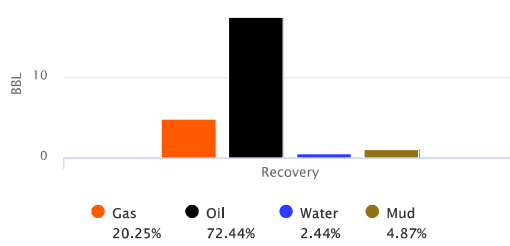
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
378	3.87828	G	100	0	0	0
1197	12.28122	O	0	100	0	0
189	1.93914	SLWCMCHOCCG	30	30	15	25
380	3.8988	O	0	100	0	0
190	1.9494	SLWCGCHOCCM	20	30	15	35

Total Recovered: 2334 ft
 Total Barrels Recovered: 23.94684

Reversed Out
 NO

Recovery at a glance

Initial Hydrostatic Pressure	2147	PSI
Initial Flow	96 to 406	PSI
Initial Closed in Pressure	1296	PSI
Final Flow Pressure	408 to 726	PSI
Final Closed in Pressure	1253	PSI
Final Hydrostatic Pressure	2139	PSI
Temperature	132	°F
Pressure Change Initial Close / Final Close	3.3	%



GIP cubic foot volume: 27.22977



Operation:
Uploading recovery & pressures

DATE
July
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2019

Company: Raymond Oil Company, Inc
Lease: Frusher #2

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 2288 GL
Field Name: Sandpit North
Pool: WILDCAT
Job Number: 370
API #: 15-083-21970

DST #2	Formation: Cherokee	Test Interval: 4442 - 4478'	Total Depth: 4478'
	Time On: 14:37 07/30	Time Off: 01:31 07/31	
	Time On Bottom: 17:16 07/30	Time Off Bottom: 21:01 07/30	

BUCKET MEASUREMENT:
1st Open: BOB in 5 min
1st Close: BOO in 22 min
2nd Open: BOB in 5 min
2nd Close: No Blow

REMARKS:

Tool Sample: 30% Gas 35% Oil 5% Water 30% Mud

Gravity: 34.9 @ 60 °F



Operation:
Uploading recovery & pressures

DATE
July

Company: Raymond Oil Company, Inc
Lease: Frusher #2

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 2288 GL
Field Name: Sandpit North
Pool: WILDCAT
Job Number: 370
API #: 15-083-21970

DST #2	Formation: Cherokee	Test Interval: 4442 - 4478'	Total Depth: 4478'
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30
2019

Time On: 14:37 07/30 Time Off: 01:31 07/31
Time On Bottom: 17:16 07/30 Time Off Bottom: 21:01 07/30

Down Hole Makeup

Heads Up: 22.62 FT	Packer 1: 4437 FT
Drill Pipe: 4432.05 FT <i>ID-3 1/4</i>	Packer 2: 4442 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4426.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4479 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: 36	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 35 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/4</i>	
Change Over: FT	
Perforations: (below): FT <i>4 1/2-FH</i>	



Operation:
Uploading recovery &
pressures

**Company: Raymond Oil
Company, Inc
Lease: Frusher #2**

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2288 GL
Field Name: Sandpit North
Pool: WILDCAT
Job Number: 370
API #: 15-083-21970

DATE
July
30
2019

DST #2 Formation: Cherokee Test Interval: 4442 - 4478' Total Depth: 4478'
Time On: 14:37 07/30 Time Off: 01:31 07/31
Time On Bottom: 17:16 07/30 Time Off Bottom: 21:01 07/30

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 55 **Filtrate:** 7.8 **Chlorides:** 4500 ppm



**Company: Raymond Oil
Company, Inc
Lease: Frusher #2**

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2288 GL
Field Name: Sandpit North
Pool: WILDCAT
Job Number: 370
API #: 15-083-21970

Operation:
Uploading recovery &
pressures

DATE
July
30
2019

DST #2 **Formation:** Cherokee **Test Interval: 4442 - 4478'** **Total Depth: 4478'**
Time On: 14:37 07/30 Time Off: 01:31 07/31
Time On Bottom: 17:16 07/30 Time Off Bottom: 21:01 07/30

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: Raymond Oil Company, Inc
Lease: Frusher #2

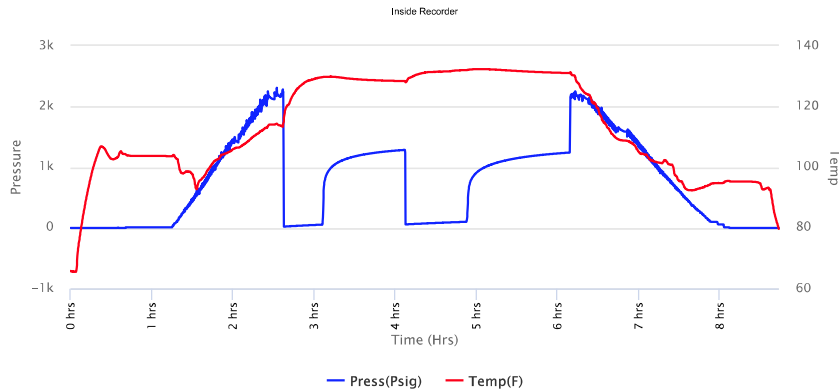
SEC: 9 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2288 GL
 Field Name: Sandpit North
 Pool: WILDCAT
 Job Number: 370
 API #: 15-083-21970

Operation:
 Uploading recovery & pressures

DATE
 July
31
 2019

DST #3 **Formation:** **Test Interval: 4490 - 4499'** **Total Depth: 4499'**
 Time On: 11:08 07/31 Time Off: 20:49 07/31
 Time On Bottom: 14:50 07/31 Time Off Bottom: 18:20 07/31

Electronic Volume Estimate: 177'	1st Open Minutes: 30 Current Reading: 6.9" at 30 min Max Reading: 6.9"	1st Close Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0"	2nd Open Minutes: 45 Current Reading: 8.1" at 45 min Max Reading: 8.1"	2nd Close Minutes: 75 Current Reading: 0" at 75 min Max Reading: 0"
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Company: Raymond Oil Company, Inc
Lease: Frusher #2

SEC: 9 TWN: 21S RNG: 23W
 County: HODGEMAN
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2288 GL
 Field Name: Sandpit North
 Pool: WILDCAT
 Job Number: 370
 API #: 15-083-21970

Operation:
 Uploading recovery & pressures

DATE
 July
31
 2019

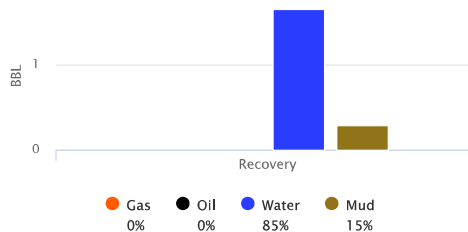
DST #3 **Formation:** **Test Interval: 4490 - 4499'** **Total Depth: 4499'**
 Time On: 11:08 07/31 Time Off: 20:49 07/31
 Time On Bottom: 14:50 07/31 Time Off Bottom: 18:20 07/31

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
190	1,9494	SLMCW	0	0	85	15

Total Recovered: 190 ft
 Total Barrels Recovered: 1,9494

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	2168	PSI
Initial Flow	25 to 56	PSI
Initial Closed in Pressure	1287	PSI
Final Flow Pressure	58 to 103	PSI
Final Closed in Pressure	1242	PSI
Final Hydrostatic Pressure	2153	PSI
Temperature	133	°F
Pressure Change Initial Close / Final Close	3.4	%

GIP cubic foot volume: 0



**Company: Raymond Oil
Company, Inc
Lease: Frusher #2**

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2288 GL
Field Name: Sandpit North
Pool: WILDCAT
Job Number: 370
API #: 15-083-21970

Operation:
Uploading recovery &
pressures

DATE
July
31
2019

DST #3 Formation: Test Interval: 4490 - Total Depth: 4499'
4499'
Time On: 11:08 07/31 Time Off: 20:49 07/31
Time On Bottom: 14:50 07/31 Time Off Bottom: 18:20 07/31

BUCKET MEASUREMENT:

1st Open: Built to 6.9
1st Close: No Blow
2nd Open: Built to 8.1
2nd Close: No Blow

REMARKS:

Chlorides: 29000 ppm



**Company: Raymond Oil
Company, Inc
Lease: Frusher #2**

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2288 GL
Field Name: Sandpit North
Pool: WILDCAT
Job Number: 370
API #: 15-083-21970

Operation:
Uploading recovery &
pressures

DATE
July

DST #3 Formation: Test Interval: 4490 - Total Depth: 4499'
4499'

31
2019

Time On: 11:08 07/31 Time Off: 20:49 07/31
Time On Bottom: 14:50 07/31 Time Off Bottom: 18:20 07/31

Down Hole Makeup

Heads Up: 5.83 FT	Packer 1: 4485 FT
Drill Pipe: 4463.26 FT <i>ID-3 1/4</i>	Packer 2: 4490 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4474.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4500 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: 9	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 8 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/4</i>	
Change Over: FT	
Perforations: (below): FT <i>4 1/2-FH</i>	



Operation:
Uploading recovery &
pressures

**Company: Raymond Oil
Company, Inc
Lease: Frusher #2**

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2288 GL
Field Name: Sandpit North
Pool: WILDCAT
Job Number: 370
API #: 15-083-21970

DATE
July
31
2019

DST #3 Formation: Test Interval: 4490 - 4499' Total Depth: 4499'

Time On: 11:08 07/31 Time Off: 20:49 07/31
Time On Bottom: 14:50 07/31 Time Off Bottom: 18:20 07/31

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 55 **Filtrate:** 13.2 **Chlorides:** 7500 ppm



**Company: Raymond Oil
Company, Inc
Lease: Frusher #2**

SEC: 9 TWN: 21S RNG: 23W
County: HODGEMAN
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2288 GL
Field Name: Sandpit North
Pool: WILDCAT
Job Number: 370
API #: 15-083-21970

Operation:
Uploading recovery &
pressures

DATE
July
31
2019

DST #3 Formation: Test Interval: 4490 - Total Depth: 4499'
4499'
Time On: 11:08 07/31 Time Off: 20:49 07/31
Time On Bottom: 14:50 07/31 Time Off Bottom: 18:20 07/31

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D