

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Name	Top	Datum
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:					

<div style="text-align: center;"> CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production, etc. </div>							
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 (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water	Bbls.	Gas-Oil Ratio Gravity

<p>DISPOSITION OF GAS:</p> <p><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease</p> <p><i>(If vented, Submit ACO-18.)</i></p>	<p>METHOD OF COMPLETION:</p> <p><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled</p> <p><i>(Submit ACO-5)</i> <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i></p>	<p>PRODUCTION INTERVAL:</p> <p>Top Bottom</p>	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Raymond Oil Company, Inc.
Well Name	KOEHLER-EGGERS UNIT 1
Doc ID	1733647

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	387	Class A	275	3% cc, 2% gel
Production	7.875	5.5	17	5010	60/40 poz mix	700	8% gel, 1/4# flo seal

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 2778 K-C

LOCATION Hurstown, KS

FOREMAN Lt. Dyke

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-3-23		Koehler-Expos #1	11	55	37W	Cherokee
CUSTOMER Raymond Oil Co, Inc			Bastrop North #			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
			103	Cory D		
			800-850	Jon E		
			801-851	Marlon		
CITY	STATE	ZIP CODE				

JOB TYPE	<u>Prod</u>	HOLE SIZE	<u>7 7/8</u>	HOLE DEPTH	<u>5043'</u>	CASING SIZE & WEIGHT	<u>5 1/2 - 17#</u>
CASING DEPTH	<u>510'</u>	DRILL PIPE		TUBING		OTHER	
SLURRY WEIGHT	<u>14.2 - 12.5</u>	SLURRY VOL		WATER gal/sk		CEMENT LEFT in CASING	<u>42'</u>
DISPLACEMENT	<u>1.5 1/4</u>	DISPLACEMENT PSI		MIX PSI		RATE	

REMARKS: Safety meetings Rig up on 2-D Dets, Circ. casing on bottom
Circ 2 Hrs, Pumped 500 gal mixed Fluid, max 25 sks cement in P.H.
Lead: mixed 475 sks 60% gm, 8% gal, 1/4" Fl-Sec
Tail: mixed 200 sks HP-OLC, Clear Pump Lines, released Plug and Displaced
117.5 Bbl. Ho 2 1600 Lbf, loaded Plug 2 2000# release Pressure, Flare Hold

Cement Did Cure

Thank You
Walt & Carol

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
	1	PUMP CHARGE	\$800 ⁰⁰	\$800 ⁰⁰
	60	MILEAGE	75	4,29 ⁰⁰
	30.9	Ten Mileage Delivery	175	3,244 ⁵⁰
	200 SKS	H.P.-Oil	26 ⁰⁰	5,200 ⁰⁰
	500 SKS	Light Weight Blend VII	1750	8,750 ⁰⁰
	1000 #	Kalsolex	150	500 ⁰⁰
	1.25 #	Flo Seal	3 ⁰⁰	375 ⁰⁰
	500 gal	mud Finish	.65	325 ⁰⁰
	1	Air Floet Shoe	585 ⁰⁰	585 ⁰⁰
	1	Latch Chain Plug Assy	400 ⁰⁰	400 ⁰⁰
	1 B	Central Ingress	81 ⁰⁰	891 ⁰⁰
	+	Basket	300⁰⁰	
				23,499 ⁵⁰
		Less 15% Disc	-	3,524 ⁹³
				19,974 ⁵⁷
			Sales Tax	
			Estimated Total	

AUTHORIZATION

TITLE

DATE _____

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**Company: Raymond Oil
Company, Inc**
Lease: Koehler-Eggers Unit #1

SEC: 11 TWN: 5S RNG: 37W
County: CHEYENNE
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

Operation:

Uploading recovery &
pressures

DATE

August
29
2023

DST #1 **Formation: Toronto** **Test Interval: 4242 - 4290'** **Total Depth: 4290'**

Time On: 16:01 08/29

Time Off: 21:27 08/29

Time On Bottom: 00:00 01/01

Time Off Bottom: 00:00 01/01

Electronic Volume
Estimate:
0'

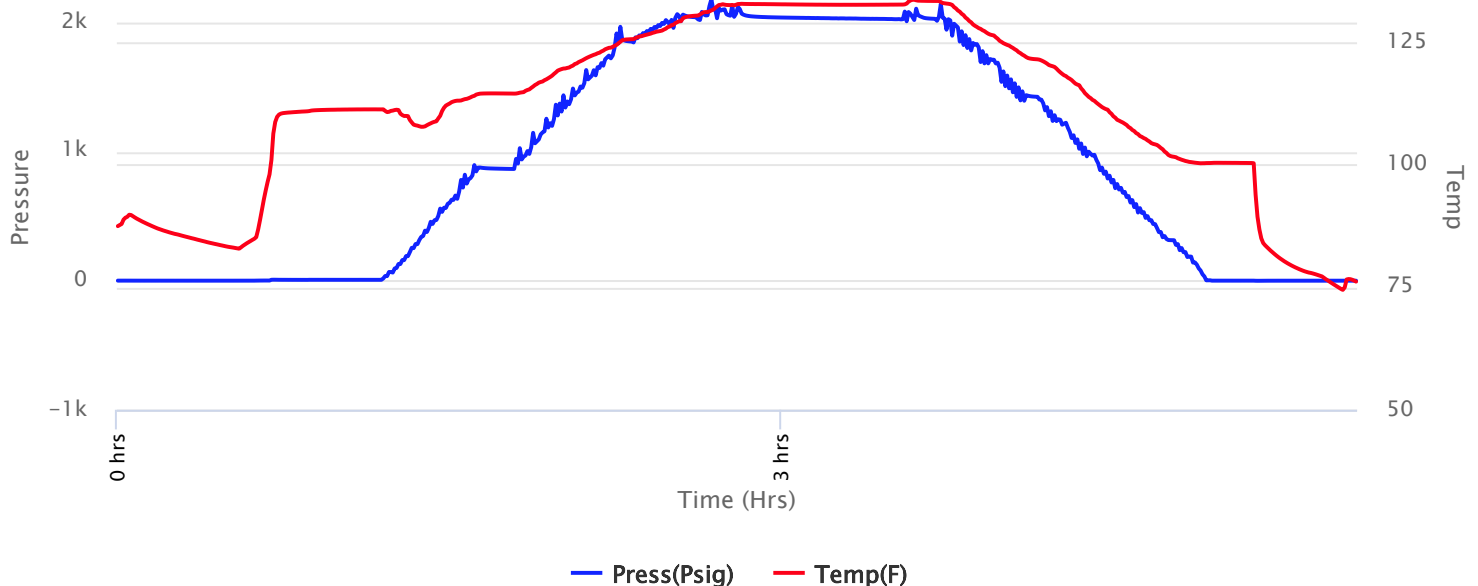
1st Open
N/A

1st Close
N/A

2nd Open
N/A

2nd Close
N/A

Inside Recorder





**Company: Raymond Oil
Company, Inc**

Lease: Koehler-Eggers Unit #1

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DST #1

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Total Depth: 4290'

Time On: 16:01 08/29

Time Off: 21:27 08/29

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	%

**Operation:**

Uploading recovery &
pressures

**Company: Raymond Oil
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BUCKET MEASUREMENT:**REMARKS:**

Hit a Bridge 60 ft off bottom. Tried to break through it several times but failed.

**Operation:**

Uploading recovery &
pressures

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Time On: 16:01 08/29

Time Off: 21:27 08/29

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Down Hole Makeup

Heads Up: 5.19 FT

Packer 1: 4237.14 FT

Drill Pipe: 4214.76 FT
ID-3 1/4

Packer 2: 4242.14 FT

Weight Pipe: FT
ID-2 7/8

Top Recorder: 4226.56 FT

Bottom Recorder: 4278 FT

Collars: FT
ID-2 1/4

Well Bore Size:

Surface Choke: 1"

Test Tool: 33.57 FT
ID-3 1/2-FH
Jars
Safety Joint

Bottom Choke: 5/8"

Total Anchor: 47.86

Anchor Makeup

Packer Sub: 1 FT

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

Change Over: .5 FT

Drill Pipe: (in anchor): 31.36 FT

ID-3 1/4

Change Over: 1 FT

Perforations: (below): 13 FT

4 1/2-FH



Operation:

Uploading recovery &
pressures

**Company: Raymond Oil
Company, Inc
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SEC: 11 TWN: 5S RNG: 37W
County: CHEYENNE
State: Kansas
Drilling Contractor: L. D. Drilling &
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Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

DATE

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29

2023

DST #1

Formation: Toronto

**Test Interval: 4242 -
4290'**

Total Depth: 4290'

Time On: 16:01 08/29

Time Off: 21:27 08/29

Time On Bottom: 00:00 01/01

Time Off Bottom: 00:00 01/01

Mud Properties

Mud Type: Chem

Weight: 9.2

Viscosity: 49

Filtrate: 6.4

Chlorides: 1200 ppm

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pressures

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4290'

Time On: 16:01 08/29

Time Off: 21:27 08/29

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
------	---------	-----	-------



Operation:

Test Complete

**Company: Raymond Oil
Company, Inc**
Lease: Koehler-Eggers Unit #1

SEC: 11 TWN: 5S RNG: 37W
County: CHEYENNE
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

DATE

August

30

2023

DST #2

Formation: Toronto

**Test Interval: 4242 -
4290'**

Total Depth: 4290'

Time On: 04:06 08/30

Time Off: 12:34 08/30

Time On Bottom: 06:33 08/30

Time Off Bottom: 10:03 08/30

Electronic Volume
Estimate:

21'

1st Open

Minutes: 30

Current Reading:

1.5" at 30 min

Max Reading: 1.75"

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

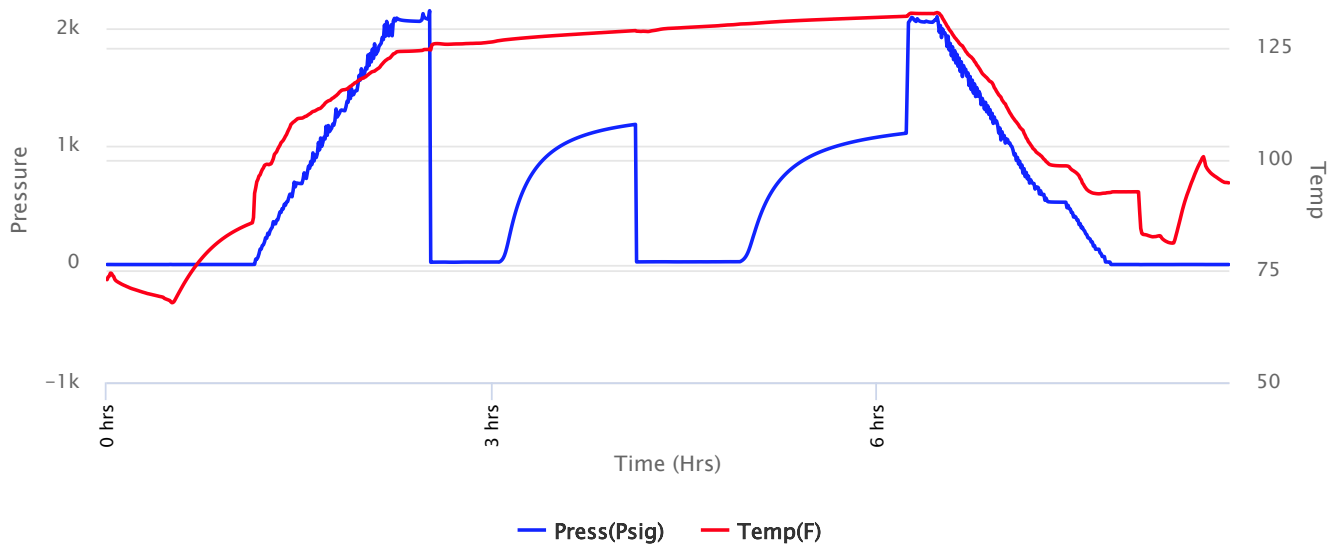
Minutes: 75

Current Reading:

0" at 75 min

Max Reading: 0"

Inside Recorder





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Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

Operation:

Test Complete

DATE

August

30

2023

DST #2

Formation: Toronto

**Test Interval: 4242 -
4290'**

Total Depth: 4290'

Time On: 04:06 08/30

Time Off: 12:34 08/30

Time On Bottom: 06:33 08/30

Time Off Bottom: 10:03 08/30

Recovered

Foot

BBLs

Description of Fluid

Gas %

Oil %

Water %

Mud %

31

0.31806

M

0

0

0

100

Total Recovered: 31 ft

Total Barrels Recovered: 0.31806

Reversed Out

NO

Recovery at a glance

Initial Hydrostatic Pressure	2081	PSI
Initial Flow	19 to 19	PSI
Initial Closed in Pressure	1189	PSI
Final Flow Pressure	22 to 24	PSI
Final Closed in Pressure	1114	PSI
Final Hydrostatic Pressure	2085	PSI
Temperature	132	°F
Pressure Change Initial Close / Final Close	6.3	%

BBL

0.2

0

Recovery



Gas
0%



Oil
0%



Water
0%



Mud
100%

GIP cubic foot volume: 0



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State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

Operation:

Test Complete

DATE

August

30

2023

DST #2 Formation: Toronto Test Interval: 4242 - Total Depth: 4290'
4290'

Time On: 04:06 08/30

Time Off: 12:34 08/30

Time On Bottom: 06:33 08/30

Time Off Bottom: 10:03 08/30

BUCKET MEASUREMENT:

1st Open: Weak, surface blow building to 1 1/3 ins. in 30 mins.

1st Close: No blow back.

2nd Open: No blow.

2nd Close: No blow back.

REMARKS:

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



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Test Complete

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2023

DST #2 Formation: Toronto Test Interval: 4242 - 4290' Total Depth: 4290'

Time On: 04:06 08/30

Time Off: 12:34 08/30

Time On Bottom: 06:33 08/30

Time Off Bottom: 10:03 08/30

Down Hole Makeup

Heads Up: 4.17 FT

Packer 1: 4237.2 FT

Drill Pipe: 4213.8 FT

Packer 2: 4242.2 FT

ID-3 1/4

Top Recorder: 4226.62 FT

Weight Pipe: FT

Bottom Recorder: 4278 FT

ID-2 7/8

Collars: FT

Well Bore Size:

ID-2 1/4

Surface Choke: 1"

Test Tool: 33.57 FT

Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 47.8

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 1 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.3 FT

ID-3 1/4

Change Over: .5 FT

Perforations: (below): 13 FT

4 1/2-FH



Operation:

Test Complete

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County: CHEYENNE
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

DATE

August

30

2023

DST #2 **Formation: Toronto** **Test Interval: 4242 - 4290'** **Total Depth: 4290'**

Time On: 04:06 08/30

Time Off: 12:34 08/30

Time On Bottom: 06:33 08/30

Time Off Bottom: 10:03 08/30

Mud Properties

Mud Type: Chemical

Weight: 9.3

Viscosity: 56

Filtrate: 7.2

Chlorides: 1,500 ppm



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Job Number: 682
API #: 15-023-21634

Operation:

Test Complete

DATE

August

30

2023

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Time On: 04:06 08/30

Time Off: 12:34 08/30

Time On Bottom: 06:33 08/30

Time Off Bottom: 10:03 08/30

Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

**Company: Raymond Oil
Company, Inc
Lease: Koehler-Eggers Unit #1**





**Company: Raymond Oil
Company, Inc**

Lease: Koehler-Eggers Unit #1

SEC: 11 TWN: 5S RNG: 37W
County: CHEYENNE
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

Operation:

Uploading recovery &
pressures

DATE

August

31

2023

DST #3

**Formation: 140/180
zone**

**Test Interval: 4416 -
4495'**

Total Depth: 4495'

Time On: 06:19 08/31

Time Off: 15:00 08/31

Time On Bottom: 09:39 08/31 Time Off Bottom: 13:09 08/31

BUCKET MEASUREMENT:

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

1st Close: NOBB

2nd Open: No Blow

2nd Close: NOBB

REMARKS:

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

Mud Properties



**Company: Raymond Oil
Company, Inc**
Lease: Koehler-Eggers Unit #1

SEC: 11 TWN: 5S RNG: 37W
County: CHEYENNE
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

Operation:

Uploading recovery &
pressures

DATE

August

31

2023

DST #3

**Formation: 140/180
zone**

**Test Interval: 4416 -
4495'**

Total Depth: 4495'

Time On: 06:19 08/31

Time Off: 15:00 08/31

Time On Bottom: 09:39 08/31

Time Off Bottom: 13:09 08/31

Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



**Company: Raymond Oil
Company, Inc**
Lease: Koehler-Eggers Unit #1

SEC: 11 TWN: 5S RNG: 37W
County: CHEYENNE
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

Operation:

Uploading recovery &
pressures

DATE

September
01
2023

DST #4 Formation: Pawnee Test Interval: 4657 - 4709' Total Depth: 4709'

Time On: 16:12 09/01 Time Off: 03:59 09/02
Time On Bottom: 18:36 09/01 Time Off Bottom: 22:21 09/01

Electronic Volume
Estimate:
N/A

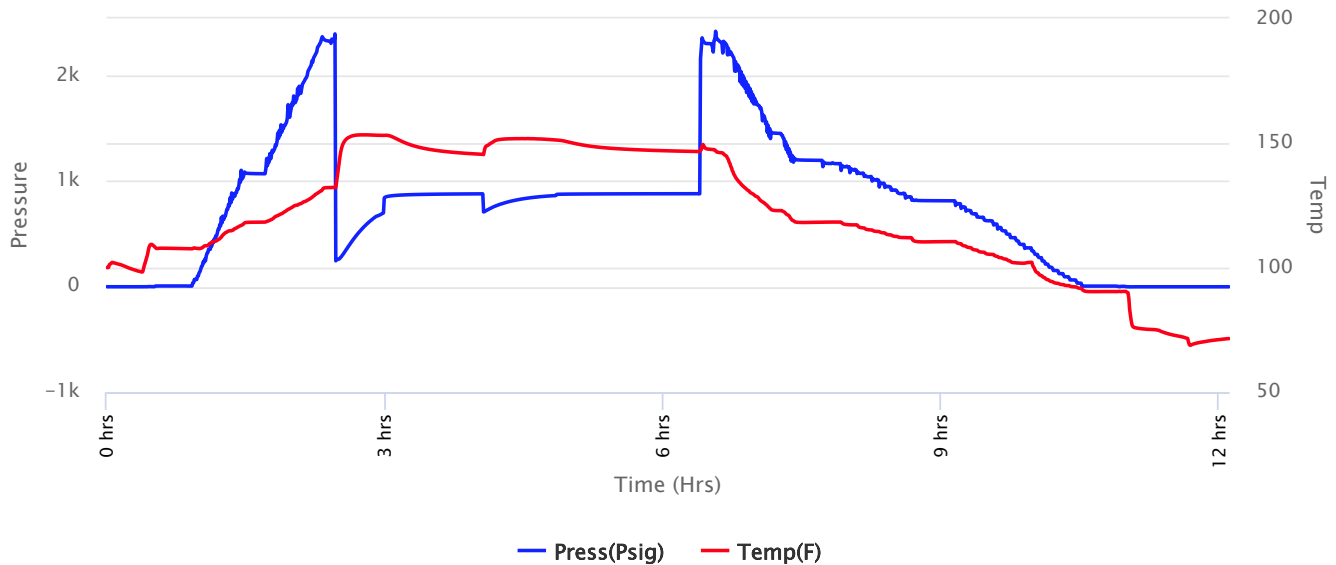
1st Open
Minutes: 30
Current Reading:
340" at 30 min
Max Reading: 340"

1st Close
Minutes: 60
Current Reading:
66.2" at 60 min
Max Reading: 74"

2nd Open
Minutes: 45
Current Reading:
To Weak To Measure " at
45 min
Max Reading: To Weak
To Measure "

2nd Close
Minutes: 90
Current Reading:
3.2" at 90 min
Max Reading: 12.1"

Inside Recorder





**Company: Raymond Oil
Company, Inc**
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SEC: 11 TWN: 5S RNG: 37W
County: CHEYENNE
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

Operation:

Uploading recovery &
pressures

DATE

September

01

2023

DST #4 Formation: Pawnee Test Interval: 4657 - 4709' Total Depth: 4709'

Time On: 16:12 09/01

Time Off: 03:59 09/02

Time On Bottom: 18:36 09/01

Time Off Bottom: 22:21 09/01

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
2324	23.84424	HGO	100	0	0	0
2117	21.72042	O	0	100	0	0
122	1.25172	MCO	0	80	0	20
61	0.62586	SLGCM	15	0	0	85

Total Recovered: 4624 ft

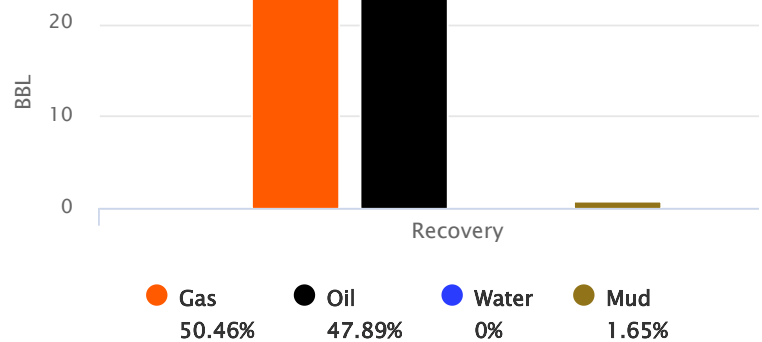
Total Barrels Recovered: 47.44224

Reversed Out
NO

Initial Hydrostatic Pressure	2333	PSI
Initial Flow	246 to 700	PSI
Initial Closed in Pressure	881	PSI
Final Flow Pressure	709 to 865	PSI
Final Closed in Pressure	882	PSI
Final Hydrostatic Pressure	2324	PSI
Temperature	154	°F

Pressure Change Initial 0.0 %
Close / Final Close

Recovery at a glance



GIP cubic foot volume: 134.40057



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Field Name: Beaver Township NE Ext
Pool: WILDCAT
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Operation:

Uploading recovery &
pressures

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2023

DST #4

Formation: Pawnee

**Test Interval: 4657 -
4709'**

Total Depth: 4709'

Time On: 16:12 09/01

Time Off: 03:59 09/02

Time On Bottom: 18:36 09/01

Time Off Bottom: 22:21 09/01

BUCKET MEASUREMENT:

1st Open: 2" Blow. BOB in 1 minute

1st Close: Bottom Bucket Blow Back

2nd Open: Gas To Surface in 2 minutes. To Weak To Measure

2nd Close: Bottom Bucket Blow Back

REMARKS:

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

Gravity: 38.2 @ 60 °F



**Company: Raymond Oil
Company, Inc**
Lease: Koehler-Eggers Unit #1

SEC: 11 TWN: 5S RNG: 37W
County: CHEYENNE
State: Kansas
Drilling Contractor: L. D. Drilling &
Exploration, LLC - Rig 1
Elevation: 3401 GL
Field Name: Beaver Township NE Ext
Pool: WILDCAT
Job Number: 682
API #: 15-023-21634

Operation:

Uploading recovery &
pressures

DATE

September

01

2023

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Down Hole Makeup

Heads Up: 29.57 FT

Packer 1: 4652 FT

Drill Pipe: 4654 FT

Packer 2: 4657 FT

ID-3 1/4

Top Recorder: 4641.42 FT

Weight Pipe: FT

Bottom Recorder: 4693 FT

ID-2 7/8

Collars: FT

Well Bore Size:

ID-2 1/4

Surface Choke: 1"

Test Tool: 33.57 FT

Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 52

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 1 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31 FT

ID-3 1/4

Change Over: 1 FT

Perforations: (below): 17 FT

4 1/2-FH



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Mud Properties

Mud Type: Chem

Weight: 9.4

Viscosity: 54

Filtrate: 8.8

Chlorides: 1500 ppm



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Gas Volume Report

Remarks: Gas To Surface 2 minutes into final flow. Caught Gas Sample 5 minutes into final flow.

1st Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

2 0.125 Too weak to measure Weak

2 0.125 Too weak to measure Weak

MCF/D

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

318-884-0708 • WICHITA, KS

GEOLOGIST'S REPORT

DRIILING TIME AND SAMPLE LOG

COMPANY **RAYMOND OIL COMPANY, INC.**

ELEVATIONS

WELL **#1 KOEHLER - EGGERS UNIT**

FIELD **WILDCAT**

LOCATION **335' ENL + 2360' FWL**

TO **3401**

SEC **11 TWP 5S R6E 37W**

COUNTY **CHEYENNE STATE KANSAS**

MEASUREMENTS AS AT **3406 KB**

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

CASINO

SPUD **8-23-23 COR 9-3-23**

STRESS **858' @ 387'**
PRESSURE **5 1/2'**

NO **5043** LID **5044**

LID **3769** TYPE **IND** CHEMICAL.

DUAL IND, DEN-S-N, MILD

SAMPLES SAVED FROM **3800 TO 5043**

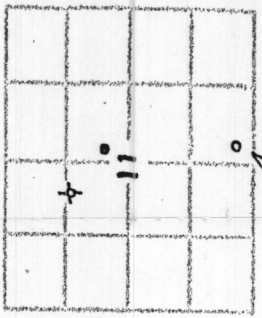
DRIILING TIME LEFT FROM **3800 TO 5043**

SAMPLES REMOVED FROM **3800 TO 5043**

GEOLOGICAL SUPERVISION FROM **3800 TO 5043**

GEOLOGIST ON WELL **KIM B. SHOEMAKER**

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	3134 + 272	3138 + 268
B/ANH.	3171 + 235	3173 + 233
HEEBNER	4242 - 836	4244 - 838
LANSING	4292 - 886	4294 - 888
PAWNEE	4668 - 1262	4670 - 1264
FORT SCOTT	4726 - 1320	4728 - 1322
CHEYENNE	4748 - 1342	4750 - 1344
MISSISSIPPI	4966 - 1560	4968 - 1562

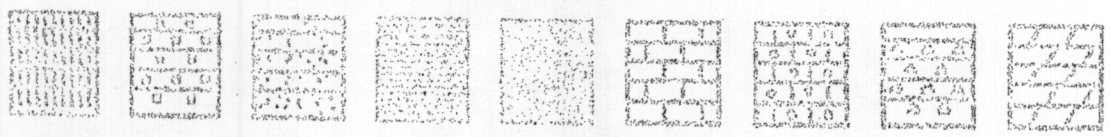


REMARKS

- 8-23-23 - 580'
- 8-24 @ 390'
- 8-25 @ 1148'
- 8-26 @ 2080'
- 8-27 @ 3000'
- 8-28 @ 3729'
- 8-29 @ 4220'
- 8-30 @ 4290'
- 8-31 @ 4495'
- 9-1 @ 4665'
- 9-2 @ 4709'
- 9-3 @ 5043'

API-15-023-21634

LEGEND



LITHOLOGY

DRILLING TIME IN MINUTES PER FOOT Rate of Penetration (inches)

DEPTH
3050

5' 10' 15' 20' 25'

SAMPLE DESCRIPTIONS

REMARKS

3100

Sh. Rd. Silty

Sh. Rd. Silty

ANHYDRITE 3138 + 268

Gp. Cr. wt.

3150

Gyp. 44% wt.

Gyp. - Gp. wt. Cr.

B./ANN. 3173 + 233

Sh. Rd. Silty

3200

Sh. Gp. Cr.

3250

3800

3768

VIS: 2B Wt: 9.2
WL: NC CHL: 3208

Samples are lagged

Sh. Rd. Silty

LS. wt. Lgh. Fog. Calcitic

LS. Lgh. vs. Fog.

Sh. Rd. Lgh. Silty

3900

LS. In Gy. Sh. Foss.

Sh. LGW

Sh. Cu. Sdy.

LS. R. VSH. Foss.

LS. LG. Wt. Sh. Foss. v. j. BLV. do. SH.

Sh. Gy. Pink. Pl

LS. R. Sh. Foss.

Sh. Sdy. Cu. Gy.

LS. R. Gy. Sh. Foss.

Sh. Cu. Gy. Sdy.

LS. Wt. VSH. Foss.

LS. In Wt. Sh. Foss.

Sh. Gy. Purple

LS. Wt. Gy. Foss. Sh. Caliche

Sh. DEG.

Sh. Cu. Gy. Sdy. Silty

4000

4100

LS. To wt. Sh. Foss.
 Sh. Rd.
 LS. wt. Sh. Foss. Sh. Chlly.
 Sh. Bkly.
 LS. Cy. VSh. Foss.

VIS: 49

WT: 9.2

WL: 6.4

CHL: 1200

Sh. Rd. Silly

LS. Cy. Sh. Foss.

LS. wt. VSh. Foss. Sh. Chlly.

SA BCC

Sh. Cy. Bkly. Lt. Blue

LS. wt. Lih. ool. Foss. Chlly

HEEBNER 4244-838
 Sh. Bkly. Carb.

Sh. UGly

Sh. Turp. Rd. Sdy.

Sh. Rd. Rd. Sdy.

4200

Pipe Strap 4270.22 Strap
 4269.68 Bd
 .54 Long to Board.

DST (1) 4242-4290 MIS RUN
 COULD NOT GET
 TO BOTTOM

DST (2) 4242-4290
 1st open: Blow built to 1 1/3"
 2nd open: No Blow
 30-60-45-75
 Tool Sample
 100% Mud
 Rec. 31' Mud

FP: 18-19 22-24"
 SIP: 1189-1114"

DST
 (1)
 (2)

TORONTO
4279-873

VIS. 56 WT. 9.3
NL. 7.2 CHL. 1500

LS. wt. Ltg. Shi. Foss. Shi. Chlly. P. Vsgp
BLE. DE BL. Hvy. Sh. Vsgp. DE BL. Hvy
No Flow Noodor

Sh. Pink Rd
LANSING 4294-888

Temp.
132°F

4300

LS. wt. Ltg. ool. Shi. Δ

LS. Bl. Gy. Shi. ly

Sh. Rd. Silly

LS. wt. Shi. Foss. Foss. w/ BLE. Flaky Sh.

Sh. Rd

LS. wt. Ltg. ool. Shi. Foss. Shi. Chlly.

LS. Ltg. Vsgp. Foss.

Sh. Rd. Silly

LS. wt. Gy. Foss. w/ BLE. Tavn. Sh.
Vsgp. DE BL. Hvy. Oil

Sh. Rd. Noodor

4400

LS. wt. Ltg. ool. chlly.

LS. Gy. Vsgp. Foss.

MUNCIE CREEK 4418-1012
Sh. BLE

LS. Bl. Vsgp. Foss.

Sh. Lt. Blue. Schy

LS. wt. Shi. Foss. Shi. Chlly. P. Vsgp
DE BL. BLE. Sh. T. PD. No Flow
No odor

Sh. G. Gy.

Sh. G. Schy

LS. wt. Vsgp. Foss. Shi. Δ

LS. T. wt. Shi. Foss. Shi. Δ. P. Vsgp
DE BL. Sh. T. PD. Dull Flow

DST (3) 4416-4490

1st OPEN: 1/4" Blow
2nd OPEN: No Blow

30-60-45-90

Tool Sample
100% M

Rec. 3' Mud

FP: 13-14 14-15"

SIP: 291-156"

Noodor

Temp. 138°F

LS. wt. Sh. Foss. P. Visc. DE. B. Sh. N. P. Noodor
STARK 4492-1086

VIS: 57 WT: 9.5
WL: 8.0 CHL: 1500

LS. wt. Ltg. Sh. Foss. Sh. A

SH. BLE. Calc.

Sh. Ltg. W. Soly

LS. wt. Ltg. Sh. Foss. Sh. Calcitic

BIKC 4546-1140

Sh. B. G. Silty

MARMATON 4554-1148

LS. Th. ool. Sh. Calcitic

4568-1162

Sh. Rd. Bl. Silty. Soly

ALTAMONT

LS. Ltg. V. Sh. Foss.

SH. G. W. Silty

Sh. Rd. G. W.

LS. wt. Sh. Foss. Sh. Ch. Ltg.

Sh. Rd. Soly

LS. G. Sh. Foss.

LS. Th. Sh. Foss. Sh. Calcitic

LS. wt. V. Sh. Foss. Sh. Ch. Ltg.

Sh. Ltg. B. W. D. B. Y.

PAWNEE 4670-1264

LS. Th. wt. ool. Foss. F. V. Noodor
BLE. B. Sh. ad. Sh. C. L. B. Sh. SS. Fd.
V. G. S. FR. Flow. V. F. D. C. B.

LS. Th. wt. Sh. Foss. Sh. Ch. Ltg.

DST (4) 4657-4709
1st open: Bottom Bucket 1 min. BB: Bucket
2nd open: " " Immed. GTS 2 min. BB: " "
30-40-45-90
Rel. GTS
2117 CO 38.2 Grav
122' MCO (80% oil 20% M)
61 GCM (15% G, 85% M)
TF: 2300'

FP: 246-700
709-865'
SIP: 881-882'

Temp.

DST (4)

VLOG

4500

4600

4700



MYRICK STATION

VIS: 6B WT: 9.6
WL: 8.8 CHL: 1500

V L06

V L06

LS. DK Bl. VShi Foss.
SH. BLK Carb
LS. In G. Sh. Foss. Pr. F. Imp.
DK Bl. Sh. VSSFD No. Flow
SH. Lt Blue

LS. wt. Sh. Foss. SH. A

LS. wt. In. Sh. Foss.

SH. BLK Carb.

FORT SCOTT 4728 1322

LS. Lt. G. VShi Foss. SH. A

Δ DK G. Bl.

LS. Bl. Sh. Foss. SH. A

CHEROKEE 4750 1344

SH. BLK Carb.

LS. wt. Chlg

LS. In G. VShi Foss.

VIS: 54 WT: 9.2
WL: 8.0 CHL: 1500

LS. G. VShi Foss.

Sch. Sh. Lt. Blue. Fr. Md. Sub. Bl.

SH. Rd. G.

Sch. Ch. wt. Md. Co. G. Sub. Bl.

LS. wt. Sh. Foss. Chlg

SH. Rd. G. Bl.

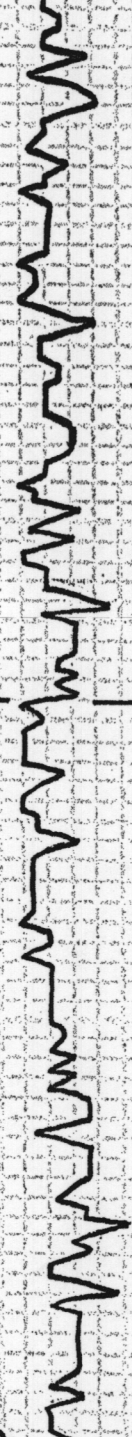
Sch. Ch. wt. Md. Co. G. Sub. Bl.

SH. Rd. Lt. Blue. G.

LS. G. VShi Foss.

4800

4900



V LOG

5000



RTD 5043-1637

Sh. G. Yellow Rd

Sd. Cl. wt. Md. Co G. Sub Rd.

Sh. Rd Yellow, Blue: G

Sh. Rd. Yellow, Blue, Purple

A Orange, Yellow

Sd. wt. Fr. Md. G. Sub Rd.

Sh. Rd Yellow G.

MISSISSIPPI 4968-1562

Dol. To. h. Frxn. Silly

Dol. wt. T. Frxn. Suv. Glave

Dol. To Bl. Frxn. Suv. Tr. Glave

ls wt. chly.

Dol. Lty. Frxn

A. G.

Dol. wt. To. h. Frxn

