

Company: Raymond Oil

Operation:

Uploading recovery & pressures

Company, Inc Lease: Michaelis #4 SEC: 3 TWN: 14S RNG: 32W County: LOGAN

State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2823 GL

Field Name: Rose Garden NW

Pool: WILDCAT Job Number: 213

DATE October 01 2018

DST #3 Formation: 160-180 Test Interval: 4043 -Total Depth: 4097' 4097' Zone

Time On: 02:34 10/01 Time Off: 10:03 10/01

Time On Bottom: 04:09 10/01 Time Off Bottom: 07:54 10/01

Electronic Volume Estimate: 171'

1st Open Minutes: 30 **Current Reading:** 9.9" at 30 min Max Reading: 9.9"

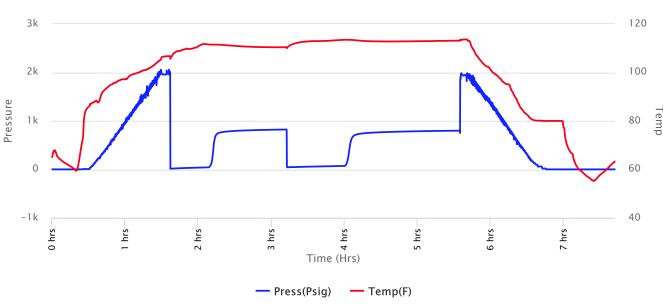
1st Close Minutes: 60 **Current Reading:** 0" at 60 min Max Reading: 0"

2nd Open Minutes: 45 **Current Reading:** 5.8" at 45 min Max Reading: 5.8"

2nd Close Minutes: 90 **Current Reading:** 0" at 90 min

Max Reading: 0"

Inside Recorder





Company: Raymond Oil Company, Inc

Lease: Michaelis #4

Operation:

Uploading recovery & pressures

SEC: 3 TWN: 14S RNG: 32W

County: LOGAN State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2823 GL

Field Name: Rose Garden NW

Pool: WILDCAT Job Number: 213

DATE	
October	
01	
2018	

Total Depth: 4097' **DST #3 Formation: 160-180** Test Interval: 4043 -Zone 4097'

> Time On: 02:34 10/01 Time Off: 10:03 10/01

Time On Bottom: 04:09 10/01 Time Off Bottom: 07:54 10/01

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
56	0.57456	G	100	0	0	0
16	0.16416	0	0	100	0	0
124	1.27224	SLGCSLOCWCM	5	15	25	55

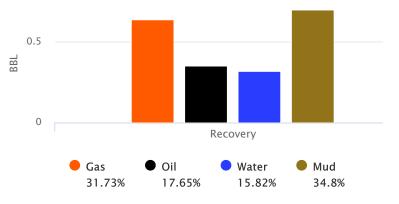
Total Recovered: 196 ft

Total Barrels Recovered: 2.01096

Reversed Out
NO

Initial Hydrostatic Pressure	1955	PSI
Initial Flow	13 to 42	PSI
Initial Closed in Pressure	822	PSI
Final Flow Pressure	42 to 72	PSI
Final Closed in Pressure	798	PSI
Final Hydrostatic Pressure	1959	PSI
Temperature	114	°F
Pressure Change Initial	2.9	%
Close / Final Close		

Recovery at a glance





Operation:

Uploading recovery &

pressures

Company: Raymond Oil Company, Inc Lease: Michaelis #4 SEC: 3 TWN: 14S RNG: 32W County: LOGAN

State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2823 GL

Field Name: Rose Garden NW

Pool: WILDCAT Job Number: 213

DATE October 01 DST #3 Formation: 160-180 Zone

Test Interval: 4043 - 4097'

Total Depth: 4097'

Time On: 02:34 10/01

Time Off: 10:03 10/01

Time - On Dattama 04.00 44

Time On Bottom: 04:09 10/01 Time Off Bottom: 07:54 10/01

BUCKET MEASUREMENT:

2018

REMARKS:

Accidentally dropped water sample.

Tool Sample: 0% Gas 30% Oil 10% Water 60% Mud

Gravity: 32.7 @ 60 °F



Company: Raymond Oil Company, Inc Lease: Michaelis #4

County: LOGAN State: Kansas

SEC: 3 TWN: 14S RNG: 32W

State: Kansas Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2823 GL

Field Name: Rose Garden NW

Pool: WILDCAT
Job Number: 213

Operation:

Uploading recovery & pressures

DATE

October

01

2018

DST #3 Formation: 160-180 Test Interval: 4043 - Total Depth: 4097'

Zone 4097'

Time On: 02:34 10/01 Time Off: 10:03 10/01

Time On Bottom: 04:09 10/01 Time Off Bottom: 07:54 10/01

Down Hole Makeup

Heads Up: 19.29 FT **Packer 1:** 4038.2 FT

Drill Pipe: 4029.92 FT **Packer 2:** 4043.2 FT

ID-3 1/4 Top Recorder: 4027.62 FT

Weight Pipe: FT

ID-2 7/8 Bottom Recorder: 4082 FT

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

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: 53.8

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 4 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 31.3 FT

ID-3 1/4

Change Over: 1 FT

16 FT

4 1/2-FH

Perforations: (below):



Company: Raymond Oil Company, Inc Lease: Michaelis #4

State: Kansas

Rig 1

Drilling Contractor: L. D. Drilling, Inc -

Elevation: 2823 GL

County: LOGAN

Field Name: Rose Garden NW

SEC: 3 TWN: 14S RNG: 32W

Pool: WILDCAT Job Number: 213

Operation:

Uploading recovery & pressures

DATE

October

01

2018

DST #3

Formation: 160-180

Time On: 02:34 10/01

Test Interval: 4043 -

Total Depth: 4097'

Zone 4097'

Time Off: 10:03 10/01

Time On Bottom: 04:09 10/01 Time Off Bottom: 07:54 10/01

Mud Properties

Viscosity: 61 Chlorides: 4400 ppm Mud Type: Chem Weight: 9 Filtrate: 9.6



Company: Raymond Oil Company, Inc Lease: Michaelis #4

SEC: 3 TWN: 14S RNG: 32W County: LOGAN

State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2823 GL

Field Name: Rose Garden NW

Pool: WILDCAT Job Number: 213

Operation: Uploading recovery & pressures

> **DATE** October 01 2018

DST #3 Formation: 160-180 Zone

Test Interval: 4043 -4097'

Total Depth: 4097'

Time On: 02:34 10/01 Time Off: 10:03 10/01

Time On Bottom: 04:09 10/01 Time Off Bottom: 07:54 10/01

Gas Volume Report

1st Open 2nd Open

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