

Operator Name Thornton E. Anderson Lease Name Berland Well # 1Sec. 20 Twp. 10S Rge. 19W ☐ East ☒ West County Rooks

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken ☒ Yes ☐ No
Samples Sent to Geological Survey ☒ Yes ☐ No
Cores Taken ☐ Yes ☐ No

Formation Description
☒ Log ☐ Sample

DST #1: 3786-3794 45 (60) 45 (60)

Rec. 5' GIP, 150' clean oil, 90' OCMW (15% oil, 45% water, 40% mud)

IFP 7-39# FFP 49-81#

ISIP 1148# FSIP 1140#

IHP 2133# FHP 2008#

BHT 118° F.

DST #2: 3793-99' 30 (45) 30 (60)

Rec. 1073' clean gassy oil, 120' muddy oil

IFP 21-294# FFP 333-464#

ISIP 1116# FSIP 1114#

IHP 2080# FHP 2048#

DST #3: 3799-3803 60 (45) 10 & out

Rec. 30' mud and 30' HOCM

No pressures recorded on flow period

ISIP 1150# IHP 2080# FHP 2050#

DST #4: 3704-3730 15 (60) Out

Rec. 5' mud w/oil specks in tool

IHP 2059# FHP 2032#

IFP 25-25# ISIP 1055#

BHT 122° F.

Name Top Bottom

Anhydrite 1611 (+ 602)
Topeka 3213 (-1000)
Heebner 3426 (-1213)
Lansing 3464 (-1251)
Arbuckle 3785 (-1572)
RTD 3870 (-1657)
LTD 3870

CASING RECORD ☒ New & ☒ 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
Surface	12 1/4"	8 5/8"	24#	201'	60/40 Poz	150	2% Gel 3% CC
Production	7 7/8"	5 1/2"	14#	3,865'	Poz	150	10% Salt 20 Gal Latex

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	2950'	Squeezed w/350 sx Econolite and 50 sx 60-40 Poz.	2950' to sfc
4	3793 1/2 to 3796 1/2		

TUBING RECORD	Size 2-7/8"	Set At 3800'	Packer at N.A.	Liner Run ☐ Yes ☒ No
---------------	----------------	-----------------	-------------------	---

Date of First Production	Producing Method
6-20-88	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....

Estimated Production Per 24 Hours	Oil 56 Bbls	Gas MCF	Water 24 Bbls	Gas-Oil Ratio CFPB	Gravity
--------------------------------------	----------------	------------	------------------	-----------------------	---------

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☒ Vented
☐ Sold
☐ Used on Lease

☐ Open Hole ☒ Perforation
☐ Other (Specify)

3793 1/2 - 96 1/2'

☐ Dually Completed
☐ Commingled