

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5120
Name: Range Oil Company, Inc.
Address 125 N. Market, Suite 1120

City/State/Zip Wichita, KS 67202
Purchaser: Total Petroleum
Operator Contact Person: John M. Washburn
Phone (316) 265-6231
Contractor: Name: Red Tiger Drilling
License: 5302
Wellsite Geologist: Rob Dietterich

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover
☒ Oil ☐ SWD ☐ Temp. Abdl.
☐ Gas ☐ Inj ☐ Delayed Comp.
☐ Dry ☐ Other (Core, Water Supply, etc.)

If OWD: old well info as follows:

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:

☒ Mud Rotary ☐ Air Rotary ☐ Cable

08-19-90 08-24-90 9-10-90
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

Signature John M. Washburn John M. Washburn
Title Vice President Date 9-20-90

Subscribed and sworn to before me this 20th day of September,
19 90.

Notary Public David T. Lewis
My Commission Expires 8-4-92

API NO. 15- 041-20,115

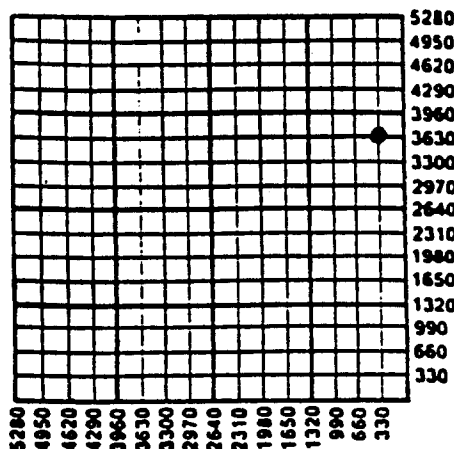
FROM CONFIDENTIAL

County Dickinson

NE SE NE Sec. 27 Twp. 16S Rge. 4E ☒ East
West

3630 Ft. North from Southeast Corner of Section

330 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Brockmeier Well # 1Field Name Lost SpringsProducing Formation MississippianElevation: Ground 1426 KB 1431Total Depth 2371' PBTD _____Amount of Surface Pipe Set and Cemented at 268' FeetMultiple 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.

K.C.C. OFFICE USE ONLY
F ☒ Letter of Confidentiality Attached
C ☒ Wireline Log Received
C ☒ Drillers Timelog Received

Distribution
☒ KCC ☐ SWD/Rep ☐ NGPA
☒ KGS ☐ Plug ☒ Other (Specify) IS

SIDE TWO

Operator Name Range Oil Compnay, Inc.Lease Name BrockmeierWell # 1☒ EastCounty DickinsonSec. 27 Twp. 16S Rge. 4E☐ West

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
(Attach Additional Sheets.)

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☒ Yes ☐ No
(Submit Copy.)

DST #1 - 2276'-2316', 30-30-30-30. Blow; died in 21 min.

Rec: 20' SOCM. IFP 40-40. ISIP 135. FFP 40-40. FSIP 105.

T: 95°F. DST #2 - 2316'-2336', 30-30-60-60. Blow; fair.

Rec: 145' GIP + 5' FO + 120' GOM (30% gas, 35% oil, 35% mud)

IFP 30-50. ISIP 275. FFP 65-85. FSIP 275. t: 95°F.

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom
Brown Limestone	-1721'	(-290')
Lansing	1763'	(-332')
Base Kansas City	2088'	(-657')
Miss. Chert	2306'	(-875')
Miss. Limestone	2351'	(-920')
LTD	2371'	(-940')
RTD	2371'	(-940')

CONFIDENTIAL

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 casing	12 1/4	8 5/8	23#	268'	Common 2%cc	120	2%cc
Production	7 7/8	4 1/2	10 1/2	2370'	RGE Blend	75	RGE BLEND

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

3	2308'-2322'

Acid, Fracture, Shot, Cement Squeeze Record
(Amount and Kind of Material Used)

Depth

300 gal. 15% FE
Frac w/75 sx sand, 35 ton CO₂
and 82 bbl wtr

2308'-2322'

TUBING RECORD

Size
2 3/8Set At
2312'

Packer At

Liner Run

☐ Yes ☒ NoDate of First Production
9-10-90Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)Estimated Production
Per 24 HoursOil Bbls.
20

Gas Mcf

Water Bbls.
40

Gas-Oil Ratio

Gravity
34°

Disposition of Gas:

☐ Vented ☐ Sold ☐ Used on Lease
(If vented, submit ACO-18.)

METHOD OF COMPLETION

☐ Open Hole ☒ Perforation ☐ Dually Completed ☐ Commingled
☐ Other (Specify)

Production Interval

2308'-2322'