FORM MUST BE TYPED — SIDE ONE

COPY

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

CONFIDENTIAL

API NO. 15- 049-21,289

County Elk

30-31-10E

___ - W/2 - NW - SE Sec. 30 Twp. 31 Rge. 10 X

1980 Feet from (S)/N (circle one) Line of Section

2310 Feet from (E)/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name Archer Well # 1

Field Name

Producing Formation

Elevation: Ground 1183 KB 1188

Total Depth 2531 PBTD

Amount of Surface Pipe Set and Cemented at 130 Fee

Multiple Stage Cementing Collar Used? ___ Yes X N

If yes, show depth set Fee

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Operator: License # 5120

Name: Range Oil Company, Inc.

Address 125 N. Market, Suite 1120

City/State/Zip Wichita, KS 67202

Purchaser:

Operator Contact Person: John M. Washburn

Phone (316) 265-6231

Contractor: Name: Glaves Drilling Co.

License: 30864 KCC

Wellsite Geologist: Tom Blair MAY 13

CONFIDENTIAL

Designate Type of Completion
X New Well ___ Re-Entry ___ Workover

___ Oil ___ SWD ___ SIOW ___ Temp. Abd.
___ Gas ___ ENHR ___ SIGW
X Dry ___ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

___ Deepening ___ Re-perf. ___ Conv. to Inj/SWD
___ Plug Back PBTD
___ Commingled Docket No.
___ Dual Completion Docket No.
___ Other (SWD or Inj?) Docket No.

3-29-93 Spud Date | 4-17-93 Date Reached TD | 4-18-93 Completion Date

Drilling Fluid Management Plan 5-21-93
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 200 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite:

Operator Name RELEASED

Lease Name License No.

APR 1 1996

___ Quarter Sec. Twp. S Rng. E/W

County FROM CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report 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.

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

Title Vice President Date 5-13-93

Subscribed and sworn to before me this 13th day of May, 19 93.

Notary Public Barbara J. Schmidt

Barbara J. Schmidt

Date Commission Expires July 13, 1993

BARBARA J. SCHMIDT
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 7-13-93

K.C.C. OFFICE USE ONLY
F ✓ Letter of Confidentiality Attached
C ✓ Wireline Log Received
C ✓ Geologist Report Received

Distribution
___ KCC ___ SWD/Rep ___ NGPA
___ KGS ___ Plug ___ Other (Specify)

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MAY 17 1993
CONSERVATION DIVISION
Wichita, Kansas

Form ACO-1 (7-91)

SIDE TWO

Operator Name Range Oil Company, Inc. Lease Name Archer Well # 1

Sec. 30 Twp. 31 Rge. 10 ☒ East ☐ West County Elk

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 (Attach Additional Sheets.) | ☒ Yes | ☐ No |
| Samples Sent to Geological Survey | ☒ Yes | ☐ No |
| Cores Taken | ☐ Yes | ☒ No |
| Electric Log Run (Submit Copy.) | ☒ Yes | ☐ No |

List All E.Logs Run: Dual Porosity, Induction Sonic

DST(1) 2218-2241' 30-30-30-30. Rec: 1'mud.
IFP 40-40 ISIP 40. FFP 40-40 FSIP 40. T: 99°F.
DST(2) 2492-2516' 30-30-30-30. Rec: 1'mud
IFP 10-10 ISIP 20 FFP 20-20 FSIP 20 T: 103°F.

☒ Log ☐ Sample

Formation (Top), Depth and Datums

| Name | Top | Datum |
|---|---|---|
| Iatan | 901 | +287 |
| Stalnaker | 954 | +234 |
| Layton zone | 1398 | -210 |
| Kansas City | 1415 | -227 |
| Base Kansas City | 1678 | -490 |
| Ft. Scott | 1902 | -714 |
| Miss. Chert | 2215 | -1027 |
| Miss. limestone | 2220 | -1032 |
| Arbuckle | 2510 | -1322 |
| Log Total Depth | 2531 | -1343 |

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" | 20 | 130 | Common | 60 | 3% CaCl |
| | | | | | | | |
| | | | | | | | |

ADDITIONAL CEMENTING/SQUEEZE RECORD

| Purpose: | Depth Top | Depth Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
|---|---|---|---|---|---|
| ___ Perforate | | | | | |
| ___ Protect Casing | | | | | |
| ___ Plug Back TD | | | | | |
| ___ Plug Off Zone | | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Inj. Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|---|---|---|---|---|---|
| | | | | | |

Disposition of Gas:

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

METHOD OF COMPLETION

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify) _____

Production Interval

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