

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

Operator: License # 31137

Name: Pennzoil Exploration & Production Co.

Address P.O. Box 2967

City/State/Zip Houston, Tx. 77252-2967

Purchaser: NORTHERN NATURAL GAS CO.

Operator Contact Person: K. Sam Jones

Phone ( 713 ) 546-4930

Contractor: Name: Abercrombie RTD, Inc.

License: 30684

Wellsite Geologist: None

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ SWD ☐ SLOW ☐ Temp. Abd.  
☒ Gas ☐ ENHR ☐ SIGW  
☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

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. \_\_\_\_\_

11-3-95 11-6-95 11-7-95  
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21,480

County Seward  
Approx. \_\_\_\_\_

- C - SW/4 Sec. 23 Twp. 31 S Rge. 33 XX E W

1250' Feet from (S/N) (circle one) Line of Section

1250' 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 ARNOLD Well # #2

Field Name HUGOTON

Producing Formation Chase

Elevation: Ground 2875' KB 2880'

Total Depth 2800' PBTD 2769'

Amount of Surface Pipe Set and Cemented at 573' Feet

Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 2800'

feet depth to SURFACE w/ 575 sx cmt.

Drilling Fluid Management Plan ALT 1 894 4-3-96  
(Data must be collected from the Reserve Pit)

Chloride content 25,000 ppm Fluid volume 1180 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 [Signature]

Title OPERATIONS SUPERINTENDENT Date 02/22/96

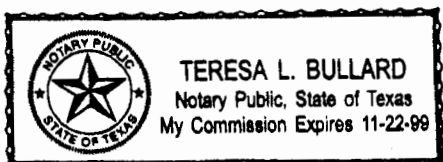
Subscribed and sworn to before me this 22 day of February, 19 96.

Notary Public [Signature]

Date Commission Expires 11-22-99

| K.C.C. OFFICE USE ONLY                  |                                     |                                          |
|-----------------------------------------|-------------------------------------|------------------------------------------|
| F                                       | <input checked="" type="checkbox"/> | Letter of Confidentiality Attached       |
| C                                       | <input checked="" type="checkbox"/> | Wireline Log Received                    |
| C                                       | <input type="checkbox"/>            | Geologist Report Received                |
| Distribution                            |                                     |                                          |
| <input checked="" type="checkbox"/> KCC | <input type="checkbox"/> SWD/Rep    | <input type="checkbox"/> NGPA            |
| <input checked="" type="checkbox"/> KGS | <input type="checkbox"/> Plug       | <input type="checkbox"/> Other (Specify) |

Form ACO-1 (7-91)



W 22 - 212 - 23

SIDE TWO

Operator Name Pennzoil Exploration & Production Co.

Lease Name ARNOLD

Well # #2

Sec. 23 Twp. 31 S. Rge. 33 W

☐ East

County Seward

☒ West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests g g 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.)

List All E.Logs Run: MSG GAMMA COLLAR CBL  
SPECTRAL DENSITY DUAL SPACED NEUTRON II  
LOG, MICROLOG, DUAL INDUCTION LATERLOG

☒ Log Formation (Top), Depth and Datums ☐ Sample

| Name       | Top   | Datum |
|------------|-------|-------|
| HERRINGTON | 2625' |       |
| KRIDER     | 2647' |       |
| WINFIELD   | 2700' |       |
| GAGE SHALE | 2728' |       |
| TOWANDA    | 2755' |       |

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"                    | 28#             | 573'          | Allied Lite Class A | 275 sks<br>100 sks | 4% CC, 1/4# floeal/sk      |
| Production String | 7 7/8"            | 4 1/2"                    | 11.6#           | 2797'         | Allied Lite ASC     | 425 sks<br>150 sks | 1/4# Floeal/sk             |

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  |                  |                |             |                            |

| 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 |
|----------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------|
| 2 SPF          | 2663' to 2670'                                                                         | 4500 GAL. 15% HCL                                                              | ALL   |
|                | 2704' to 2722'                                                                         | 41,850 SCF N 2                                                                 | ALL   |

| TUBING RECORD                                  | Size                                                                                                                                                                     | Set At    | Packer At   | Liner Run     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|---------------|---------------------------------------------------------------------|
|                                                | 2 3/8"                                                                                                                                                                   | 2730'     |             |               |                                                                     |
| Date of First, Resumed Production, SWD or Inj. | Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) |           |             |               |                                                                     |
| 02/02/96                                       |                                                                                                                                                                          |           |             |               |                                                                     |
| Estimated Production Per 24 Hours              | Oil Bbls.                                                                                                                                                                | Gas Mcf   | Water Bbls. | Gas-Oil Ratio | Gravity                                                             |
|                                                |                                                                                                                                                                          | 200 MCF/D | 2 BWPD      |               |                                                                     |

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

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

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled  
☐ Other (Specify)