

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

Operator: License # 4742
Name: Texaco E & P, Inc.
Address P.O. Box 2700

City/State/Zip Pampa, TX 79066-2700
Purchaser: Northern Natural
Operator Contact Person: Sylvia Porter
Phone (806) 669-8456
Contractor: Name: Allen Drilling Co.
License: 5418
Wellsite Geologist: Mark Lehrer
Designate Type of Completion
☒ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.
☒ Gas ☐ ENHR ☐ SIGW
☐ 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.
1-17-97 2-1-97 3-4-97
Spud Date Date Reached TD Completion Date

SIDE ONE

API NO. 15- 189 22124 **COPY**
County Stevens
C NE NE Sec. 16 Twp. 35S Rge. 35 X E W
660 Feet from S (circle one) Line of Section
660 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE SE, NW or SW (circle one)
Lease Name I. F. Wray Well # 3
Gooch
Producing Formation Morrow
Elevation: Ground 2984' KB 2996'
Total Depth 6450' PBTD 6356'
Amount of Surface Pipe Set and Cemented at 1712' Feet
Multiple Stage Cementing Collar Used? ☒ Yes ☐ No
If yes, show depth set 3106 Feet
If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.
Drilling Fluid Management Plan ALT 1 JK 6-30-97
(Data must be collected from the Reserve Pit)
Chloride content ppm Fluid volume bbls
Dewatering method used
Location of fluid disposal if hauled offsite:
Operator Name
Lease Name License No.
 Quarter Sec. Twp. S. Rge. 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 67202-1212, 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 Sylvia C. Porter
Title Engineering Technician Date 4-15-97
Subscribed and sworn to before me this 15th day of APRIL
1997
Notary Public Merle W. Snell
Date Commission Expires 2-23-99

| | | |
|---|-------------------------------------|--|
| 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"/> | Drillers Timelog 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) <u>IS</u> |

SIDE TWO

Operator Name Texaco E & P Inc.Lease Name I. F. WrayWell # 3☐ EastCounty StevensSec. 16 Twp. 35S Rge. 35☒ 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
(Attach Additional Sheets.)☐ Yes ☒ No☒ Log

Formation (Top), Depth and Datums

☐ Sample

Samples Sent to Geological Survey

☐ Yes ☒ No

Cores Taken

☐ Yes ☒ No

Name

Top

Datum

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

See Attached

List All E.Logs Run:
Compensated Neutron
Array Induction

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# | 1712' | See Att. | | |
| Production | 7-7/8" | 5-1/2" | 15.5# | 6447' | See Att. | | |
| | | DV Tool | set @ | 3104' | | | |

ADDITIONAL CEMENTING/SQUEEZE RECORD

| Purpose | Depth Top 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 |
|----------------|---|---|-------|
| 4 | 6383 - 97' | Acidized w/15000 gal. 15% hcl acid | |
| 2 | 6290 - 96' | Frac w/66000# 16/30 Ottawa Sand | |
| 2 | 6309 - 25' | & w/14,000 gal. 2% kcl water | |
| | | gelled YF120G | |

| TUBING RECORD | Size | Set At | Packer At | Liner Run |
|---------------|--------|--------|-----------|---|
| | 2-3/8" | 6322' | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

| Date of First Resumed Production, SWD or Inj. Production | Producing Method |
|--|---|
| 3-21-97 | <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) |

| Estimated Production Per 24 Hours | Oil | Bbls. | Gas | Mcf | Water | Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----|-------|-----|-----|-------|-------|---------------|---------|
| | 0 | | 236 | | 5 | | | |

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

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

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

6290 - 6325'

ORIGINAL

I. F. WRAY #3
API #15 - 189 -22124
Section 16-35S-35W
Stevens County, Kansas

Cementing Data

8-5/8" Surface Casing Cement - Dowell Ticket No. 0312-8901

590 sacks 15/85 Poz C, 8% gel, 2% SI, 1/4 sk D-29

200 sacks Class C, 2% SI, 1/4 sk D-29

Circulated to surface

5-1/2" Production Casing Cement - Dowell Ticket No. 0312-8924

1st stage - 400 sacks RFC 12-0 w/ 2% D46 @ DVT 3110

2nd stage - lead - 125 sacks 35/65 Poz C w/ 6% D20 & 1/4 sk D29

2nd stage - tail - 150 sacks RFC w/.2% D46

ORIGINAL

I. F. WRAY #3
API #15 - 189 - 22124
Section 16-35S-35W
Stevens County, Kansas

Formation Tops and Datum
(KB Elevation = 2996.5')

| <u>Formation</u> | <u>Top</u> | <u>Datum</u> |
|------------------|------------|--------------|
| Krider | 2725' | + 272 |
| Heebner | 4339' | -1343 |
| Toronto | 4357' | -1361 |
| Lansing | 4459' | -1463 |
| Marmaton | 5223' | -2227 |
| Cherokee | 5480' | -2484 |
| Morrow | 5969' | -2973 |
| Chester | 6344' | -3348 |