

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: license # 9435
name Walter Kuhn Drilling Company
address P. O. Box 3758
417 N. Topeka Avenue
City/State/Zip Wichita, KS 67201

Operator Contact Person Ernest Peterson
Phone 316-262-8371

Contractor: license # 6666
name NRG Drilling, Inc.

Wellsite Geologist Bob Posey
Phone 316-624-5919

PURCHASER Northern Natural

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method: Mud Rotary Air Rotary Cable
6-4-84 6-8-84 6-9-84
Spud Date Date Reached TD Completion Date
3,091' 3,090'
Total Depth PBD

Amount of Surface Pipe Set and Cemented at 1729 feet
Multiple Stage Cementing Collar Used? Yes No
If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt

API NO. 15 - 189-20,718 -00-00
County Stevens
Center of the N/2 Sec 16 Twp 33S Rge 36W | East
(location) | West

1,320 Ft North from Southeast Corner of Section
2,640 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

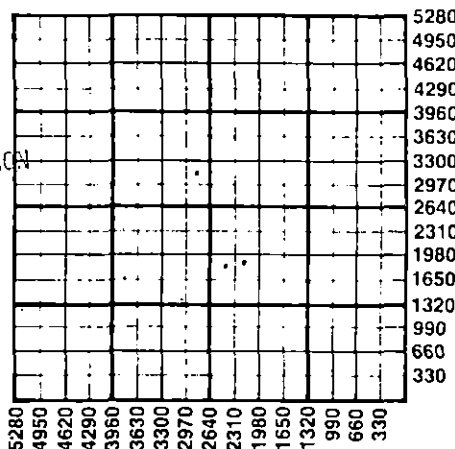
Lease Name Stephens Well# 3-16

Field Name Panoma Gas Area

Producing Formation Council Grove

Elevation: Ground 3,041 KB 3,052

see copy of staking bill attached
Section Plat



RECEIVED
STATE CORPORATION COMMISSION
DEC 10 1984
12-10-1984
CONSERVATION DIVISION
Wichita, Kansas

WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit #
 Groundwater... 3,630 Ft North From Southeast Corner and
(Well) ... 3,960 Ft. West From Southeast Corner of
Sec 16 Twp 33S Rge 36 East West
 Surface Water... Ft North From Southeast Corner and
(Stream, Pond etc.)... Ft West From Southeast Corner
Sec Twp Rge East West
 Other (explain) (purchased from city, R.W.D.#)

Disposition of Produced Water: Disposal Repressuring
Docket #

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 82-3-130 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 drillers time log shall be attached with this form. 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 Ernest Peterson
Title Sec 2reas Date 10-10-84
Subscribed and sworn to before me this 10th day of October 19 84
Notary Public Krista Robb
Date Commission Expires 9-27-87



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)

Sec. 16, Twp. 33, Rge. 36W

Operator Name Walter Kuhn Drilling Company Lease Name Stephens Well# 3-16 SEC 16 TWP. 33S RGE. 36W East West

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

Name M.G. - C.P.L. Top 1600' Bottom 3075'

See copy of driller's log attached.

| CASING RECORD <input type="checkbox"/> new <input type="checkbox"/> 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 | 17.29 | | 5.50 | H.P.C. 2.9% C.C. |
| Production String | 7 7/8" | 4 1/2" | 9.0 | 30.97 | H. | 4.25 | 2% S.P.A.T. |

| PERFORATION RECORD | | Acid, Fracture, Shot, Cement Squeeze Record | |
|--------------------|---|---|-------|
| shots per foot | specify footage of each interval perforated | (amount and kind of material used) | Depth |
| 2 | 3001 - 2996 | Frac with 60,000 gal. H2O & 16/30 sand | |
| 2 | 2994 - 2989 | | |
| 2 | 2982 - 2974 | | |
| 2 | 2966 - 2958 | | |
| 2 | 2948 - 2956 | | |

| TUBING RECORD | | | |
|---------------|--------|-----------|---|
| size | set at | packer at | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2 3/4" | 3008 | N/A | |

| Date of First Production | Producing method <input checked="" type="checkbox"/> flowing <input type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain) | | | |
|-----------------------------------|--|--------|-------|---------------|
| | Oil | Gas | Water | Gas-Oil Ratio |
| Estimated Production Per 24 Hours | — | 62 MCF | — | — |
| | Bbls | MCF | Bbls | CFPB |

Disposition of gas: vented sold used on lease

METHOD OF COMPLETION open hole perforation other (specify)

PRODUCTION INTERVAL 2,948 - 3,001 overall

Dually Completed. Commingled.

DRILLER'S LOG

Walter Kuhn Drilling Company
 600 Hardage Bldg.
 Main & Douglas Street
 Wichita, Kansas 67202

Surface Casing: Ran 41 jnts. - 8 5/8" casing set @ 1729'. Cemented w/550 sacks HLC 2% CC followed with 150 sacks Class H - 3% CC. Did not circulate. Cement level 100' below ground level. Followed up with 150 sacks Class H - 3% CC thru 1" pipe. Cement level at ground level.

Commenced: 6-4-84
 Completed: 6-9-84

Total Depth: 3091 feet

| FORMATION | FROM | TO | REMARKS |
|---------------------|-------|-------|-----------|
| Sand & Clay | 0' | 734' | LTD: 3093 |
| Red Bed | 734' | 1583' | |
| Red Bed & Anhydrite | 1583' | 1729' | |
| Shale | 1729' | TD | |

RECEIVED
 STATE CORPORATION COMMISSION
 DEC 10 1984
 CONSERVATION DIVISION
 Wichita, Kansas

I certify that this is a true and correct copy of the log on the above captioned well to the best of my knowledge.

NRG Drilling, Inc.

By R. J. Patrick
 R. J. Patrick, President

Subscribed and sworn to before me this 14th day of June 19 84

Nina F. Patrick
 Nina F. Patrick

My commission expires:

