

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

API NO. 15-155-20.978-0000

County... Reno
C-E/2 SE NW Sec. 28 Twp. 22 Rge. 9 East
West

Operator: License # 5114
Name National Development Company
Address 205 East Central - Suite 120
City/State/Zip Wichita, Kansas 67202

3630 Ft North from Southeast Corner of Section
3300 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser... People's Natural Gas

Lease Name... CANTWELL Well #... 1

Operator Contact Person Wayne Merchant
Phone 316/267-1331

Field Name... Cantwell

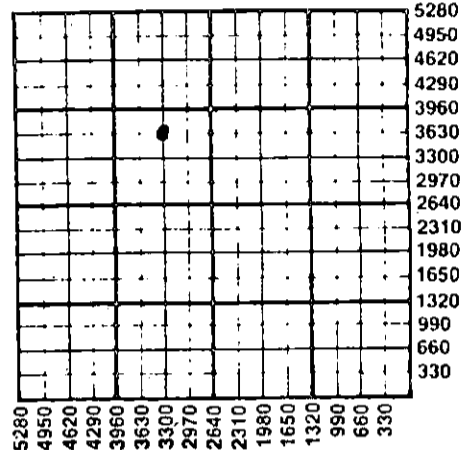
Producing Formation... Mississippian KC-KCC

Elevation: Ground 1708' KB 1713'

Contractor: License # 5864
Name Lobo Drilling Company

Wellsite Geologist Rod Tremblay
Phone

Section Plat



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

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

2/29/84 3-6-84 3/6/84
Spud Date Date Reached TD Completion Date

3570'
Total Depth PBTB

Amount of Surface Pipe Set and Cemented at 259 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
Cement Company Name
Invoice #

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater... Ft North from Southeast Corner (Well) ... Ft West from Southeast Corner of Sec Twp Rge East West

Surface Water... Ft North from Southeast Corner (Stream, pond etc) ... Ft West from Southeast Corner Sec Twp Rge East West

Other (explain) (purchased from city, R.W.D. #)

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. Rule 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.

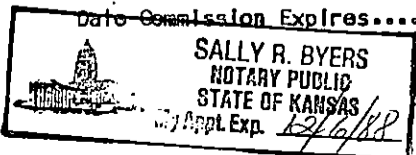
Signature Ralph R. Hamilton
Title Manager Date 11/27/85

Subscribed and sworn to before me this 27th day of November 1985

Notary Public Sally R. Byers

Date Commission Expires December 6, 1988

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)
STATE CORPORATION COMMISSION



12-2-85

Form ACO-1 (7-84)
DEC 2 1985

Sec 28 Twp 22 Rge 9W

SIDE TWO

Operator Name NATIONAL DEVELOPMENT COMPANY Lease Name..... CANTWELL Well #.....

Sec..... 28 Twp..... 22 Rge..... 9 East West County..... Reno

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

DST #1 3146' - 3205'
 Open 45", Closed 45", Open 45", Closed 45"
 1st Opening: Weak
 2nd Opening: Weak, died
 Recovered: 30' gas in pipe
 150' Slightly gas cut mud with few specks of oil on tool.
 IFP: 72# - 101# HSH: 1688# - 1660#
 FFP: 123# - 137#
 ISIP: 151# FSIP: 159#

Name	Top	Bottom
Heebner	2957'	2974'
Toronto	2974'	2991'
Douglas	2991'	3109'
Brown Lime	3109'	3130'
Base Ks. City	3130'	3445'
Mississippi	3445'	3479'

DST #2 3283' - 3320'
 Open 45", Closed 45", Open 45", Closed 45"
 1st Opening: Strong, gas to surface in 7 minutes
 Recovered: 70' slightly gas cut mud
 IFP: 65# - 50# FFP: 57# - 50#
 ISIP: 1051# FSIP: 754#
 HSH: 1783# - 1762#

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#	259	60/40 Poz.	235	2% gel, 3% cc
Production	7-7/8"	5-1/2"		3569	50/50 Poz.	175	18% salt 3/4 of 1% CFR2 w/15 bbl. saltflush

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
Four	3/8" steel 3481' - 3490'	500 gallons 15% HCL	3481' - 3490'

TUBING RECORD Size 2-3/8" Set At 3473' Packer at None Liner Run Yes No

Date of First Production 10/1/84 Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Mist	Gas-Oil Ratio	Gravity
		30			

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Sold Used on Lease Open Hole Other (Specify) Perforation Dually Completed Commingled