

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 # 5114
Name National Development Company
Address 205 East Central, Suite 120
City/State/Zip Wichita, Ks 67202

Purchaser.....

Operator Contact Person Ralph R. Hamilton
Phone 316-267-1331

Contractor: License # 5929
Name Duke Drilling Co., Inc.

Wellsite Geologist Calvin Jones
Phone 316/264-9281

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
.....3-12-85.....3-17-85.....3-17-85.....
Spud Date Date Reached TD Completion Date
.....3700.....
Total Depth PBT
Amount of Surface Pipe Set and Cemented at 765 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. 15-051-24,188

County Ellis

NE SW SW Sec. 1 Twp. 13 Rge. 18 East West

990 Ft North from Southeast Corner of Section
4290 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

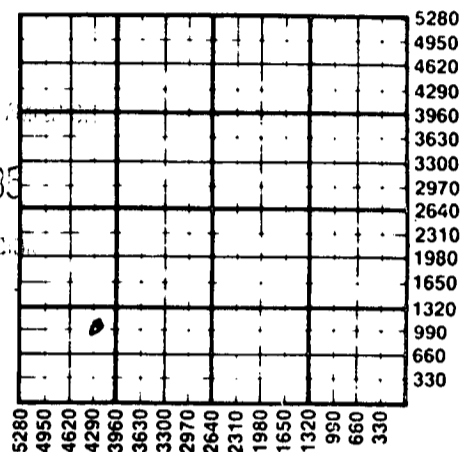
Lease Name Crissman Well # 4

Field Name.....

Producing Formation.....

Elevation: Ground 2093 KB 2098

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket #

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 5080 Ft North from Southeast Corner
(Stream, pond etc.) 660 Ft West from Southeast Corner
Sec 7 Twp 14 Rge 17 East West

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

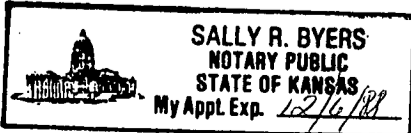
INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 apply.
Information on side two of this form will be held 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 6/25/85

Subscribed and sworn to before me this 25th day of June 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 Time Log Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)



Sec 1 Twp 13 Rge SW

SIDE TWO

Operator Name National Development Co. Lease Name Crissman Well # 4

Sec. 1 Twp. 13 Rge. 18 East West County Ellis

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 - 3609' - 3634'
 30" 30" 15" 15"
 Rec. - 10' Mud
 Blow - 1st Open - 1/2" Died 12 Minutes
 2nd Open - No blow, flushed tool 5 minutes
 into 2nd opening, got a surge, no blow.
 Pressures: IFP - 30# - 30# FFP - 40# - 40#
 ISIP - 70# FSIP -----
 IHP - 1970# FHP - 1891#

Name	Top	Bottom
Topeka	3080'	3196'
Shale	3196'	3252'
Queen Hill	3252'	3328'
Heebner	3328'	3352'
Toronto	3352'	3361'
Douglas	3361'	3402'
Lansing-Kansas City	3402'	3603'
Conglomerate	3603'	3696'

CASING RECORD <input type="checkbox"/> New <input checked="" 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"	28#	765'	60/40 poz	250	2% gel 3% cc
PERFORATION RECORD Shots Per Foot 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 <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input 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		

METHOD OF COMPLETION

Production Interval

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