

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 # 5056
Name F.G. Holl
Address 6427 E. Kellogg
City/State/Zip Wichita, Ks, 67207

Purchaser Northern Natural Gas Co.

Operator Contact Person W.J. Monk
Phone (316) 684-8481

Contractor: License # 5142
Name Sterling Drilling Co.

Wellsite Geologist Don Solze
Phone

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
11-21-84 11-28-84 12-18-84
Spud Date Date Reached TD Completion Date
4424
Total Depth PBD
Amount of Surface Pipe Set and Cemented at 308 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. 15-047-21,229-0000

County Edwards

SE SE NW 21 24 16W
Sec Twp Rge East West

2970 Ft North from Southeast Corner of Section
2970 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

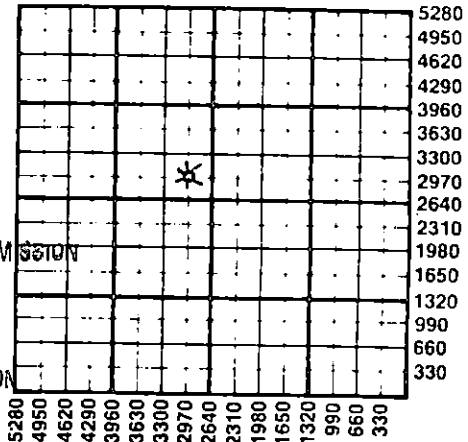
Lease Name Lunz "A" Well # 4-21

Field Name Embry

Producing Formation Kinderhook/Mississippi

Elevation: Ground 2074 2083 KB

Section Plat



RECEIVED
STATE CORPORATION COMMISSION
MAR 8 1985
CONSERVATION DIVISION
Wichita, Kansas

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.....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 Wilfred J. Monk
Title Geologist Date

Subscribed and sworn to before me this 6 day of March 1983
Notary Public Mary D. Slagle

Date Commission MARY D. SLAGLE
STATE NOTARY PUBLIC
Sedgwick County, Kansas
My Appt. Exp. 12/31/83

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Sec. 21 Twp. 24 Rge. 16W

SIDE TWO

Operator Name F. G. Holl Lease Name Junz "A" Well # 4-21
 Sec. 21 Twp. 24 Rge. 16W County Edwards
 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

DST #1 4254-4300 Cherokee-Miss,
 1st Flow: tool opened with a strong blow,
 GTS in 20 minutes.
 Rcd: 190' GCM
 40-50-70-30
 IFP: 81#-82#
 ISIP: 867#
 FFP: 128#-120#
 FSIP: 841#
 BHT: 116F

Name	Top	Bottom
Heebner	3689	(-1606)
Brown Lime	3826	(-1743)
LKC	3836	(-1753)
BKC	4111	(-2028)
Cherokee	4237	(-2154)
Mississippi	4269	(-2186)
Kinderhook	4304	(-2221)
Kinderhook sd	4327	(-2244)
Viola	4397	(-2314)

CASING RECORD <input checked="" 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		8 5/8"	23#	308' KB	60/40 Poz	225	3% cc
Production		4 1/2"	10 5/8#	4416' KR	Lite	100	
					50/50 Poz	125	regular flush
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
1	4271-78-81-87-91-92-93-99-4304-29-30			500 gal. 15% DSFE acid-1000 bbls			
				x-link frac. w/ 25,000# 20/40 and			
				35,000# 10/20 sand			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size		Set At		Packer at			
2 3/8"		4262.06'					
Date of First Production		Producing Method					
SIG		<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours	Oil		Gas		Water	Gas-Oil Ratio	Gravity
	Bbls	SI	MCF	Bbls	CFPB		

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 4271-4330
 Used on Lease Dually Completed
 Commingled