

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 # 8008
Name J D Operating Company
Address 3015 E. Skelly Drive
Suite 442
City/State/Zip Tulsa, OK 74105

Purchaser Northern Natural Gas Company

Operator Contact Person Jim Duck
Phone 918-744-1112

Contractor: License # 5142
Name Sterling Drilling Company

Wellsite Geologist W. J. Monk
Phone 316-327-2572

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

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
7-15-88 7-20-88 8-12-88
Spud Date Date Reached TD Completion Date
4365' 4326'
Total Depth PBTD

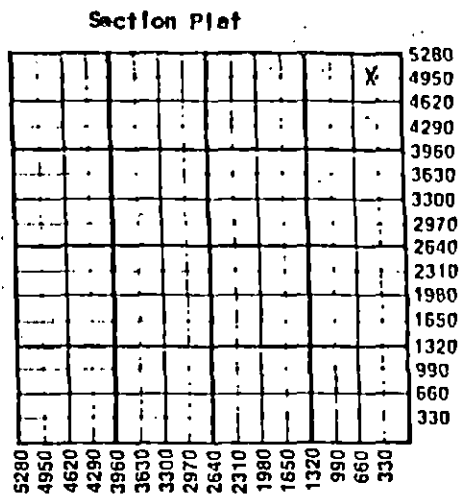
Amount of Surface Pipe Set and Cemented at 320 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set feet
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt
Cement Company Name
Invoice #

API NO. 15-047-21.324-0000
County Edwards
NE NE NE Sec 35 Twp 24 Rge 16 East
..... West

4950 Ft North from Southeast Corner of Section
390 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Miller Well # 1
Field Name Embury Well

Producing Formation Mississippi Chert
Elevation: Ground 2062' 2071' KB



WATER SUPPLY INFORMATION
Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717
Source of Water: 7098
Division of Water Resources Permit #
 Groundwater 4970 Ft North from Southeast Corner
(Well) 430 Ft West from Southeast Corner of
Sec 35 Twp 24 Rge 16 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 triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 James H. Duck
Title President Date 9-29-88

Subscribed and sworn to before me this 29th day of September 1988
Notary Public Bonnie J. Steger
Date Commission Expires July 11, 1990

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)
RECEIVED
STATE CORPORATION COMMISSION
10-3-88

OCT 3 1988

Sec. 35 Twp. 24 Rge. 16W

Operator Name J D Operating Company Lease Name Miller Well # 1

Sec. 35 Twp. 24 Rge. 16 East West County Edwards

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 4245'-4300' Open tool 30". Shut in 30". Opened tool and had gas to surface 30" into second opening and packer failed-flow died.
 IFP 140#, ISIP 1125#, no other readings valid. Recover 795' of gas cut mud.

Name	Top	Bottom
Anhydrite	1074	1088
Heebney	3688	3694
Toronto	3708	3724
Lansing-Kansas City	3832	4100
Fort Scott	4229	4238
Mississippi	4255	4300
Kinderhook	4300	TD
TD	4365	

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"	23#	320	60/40 poz.	225	2% gel, 2% cc
Production	7 7/8"	4 1/2"	10.50#	4361	60/40 poz.	150	2% cc, 2% gilsonite 10% salt
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
Shots Per Foot	Specify Footage of Each Interval Perforated						
One at	4261, 4264, 4266, 4268, 4270, 4272, 4274, 4277, 4279, 4282, 4283, 4284, 4286, 4288, 4290 (15 holes)			Acidize-1500 gals 7 1/2% NE Frac-42,000 gals gel 40,000# sand			4261 to 4290
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Size	Set At	Packer at			
8-9-88		2 3/8"	4239	none			
Date of First Production		Producing Method					
8-9-88		<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	
0 Bbls		0 Bbls	811 MCF	0 Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

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

4261

 4290
