

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

API NO. 15-129-20760-4-20-01
County Morton
CSW/4 SE/4 Sec. 15 Twp. 34S Rge. 40 East
West

Operator: License # 5447
Name Cities Service Oil & Gas Corp
Address 3545 NW 58th Street
Oklahoma City, Oklahoma
City/State/Zip 73112

660 Ft North from Southeast Corner of Section
1980 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser Northern National Pipeline

Lease Name Luther B Well # 3

Operator Contact Person Raymond Hui
Phone (405) 949-4268

Field Name Kansas Hugoton Gas

Producing Formation Chase

Contractor: License #
Name Exeter Drilling Company

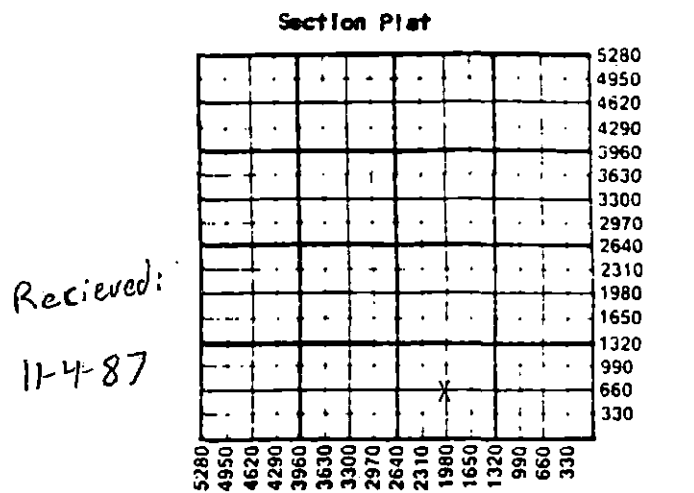
Elevation: Ground 3357' KB 3368'

Wellsite Geologist Andrew Howell
Phone (405) 949-4400

Designate Type of Completion
New Well Re-Entry Workover

Oil SWD Temp Abd
Gas Inj Delayed Comp.
Dry Other (Core, Water Supply etc.)

If ONNO: old well info as follows:
Operator Cities Service Oil & Gas Corp
Well Name Fermaid A #1
Comp. Date 8/22/85 Old Total Depth 6575'



WELL HISTORY
Drilling Method: Mud Rotary Air Rotary Cable
6/7/87 6/8/87 10/20/87
Re-entry Date Date Reached TD Completion Date
2782' 2738'
Total Depth PBTD

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: Not needed
Division of Water Resources Permit #
Groundwater: Ft North from Southeast Corner (Well) Ft West from Southeast Corner
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 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 Del G. Oliver
Title Special Projects Manager Date 10/28/87

Subscribed and sworn to before me this 28th day of October 1987
Notary Public Cheryl Fuller
Date Commission Expires January 8, 1990

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)

Operator Name Cities Service Oil & Gas Corp Lease Name Luther B Well # 3

Sec. 15 Twp. 34S Rge. 40 East West County Morton

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

Ran Schlumberger & NGT & long spaced Sonic w/GR and Caliper from 2774'-2300'.

Ran CBL from 2688 to 1600' KB. Ran cement evaluation log from 2678' KB to 1600' KB.

Ran CCL correlation log over Chase intervals.

Name	Top	Bottom
Surf., Clay Sand	0	200'
Redbed, Sand, Shale	200	1252'
Glorietta Sand	1252	1405'
Shale	1405	1680'
Anhydrite	1680	1698'
Shale	1698	2792'
Lime & Shale	2792	6575'
PBTD		2728'
TD		2782'

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
Conductor	30"	20"		29'	Red-Mix	2 yds.	
Surface	12 1/4"	8 5/8"	24#	1697 KB	Poz	650	2% CaCl ₂ 1/2#
Production	7 7/8"	5 1/2"	15.5#	2781 KB	65/35Poz	350	6% gel & 44#
					50/50Poz	C" 150	2% gel, 12% salt,
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	Chase 2611-52' (41' 42 holes);			888 BLW: 1200 # A-gel, 7000#		2478-2652	
	2600-04 (4' 5 holes);			KCL 142 gal F-2 Foamer;			
	43 holes); 2534-38' (4' 5 holes);			42 gals w-11 Surfactant and			
	2478-2530" (52' 53 holes)			20 gals Adacide Bact.			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Size 2 3/8" Set At 2726' Packer at					
Producing Method		Waiting on pipeline connection <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	441 MCF	0 Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

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

2611-52'
 2600-04'
 2542-84'
 2534-38'
 2478-2530'

NOV 4 1987