

ORIGINAL

SIDE ONE

10/25/89
RELEASED

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 # 04782
Name Ensign Operating
Address 621 17th St., Suite 1800
City/State/Zip Denver, CO 80293

Purchaser Northern Natural

Operator Contact Person L. T. Hartnett
Phone (303) 293-9999

Contractor: License # 5107
Name H-30 Drilling, Inc.

Wellsite Geologist Duane Moredock
Phone (303) 771-4502

Designate Type of Completion
 New Well Re-Entry Workover

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

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
9-10-89 9-20-89 10/17/89
Spud Date Date Reached TD Completion Date
5900' 5575'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1727 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-.....175-21,105-0000

County.....Seward

SE.. NW.. NW.. Sec. 27 Twp. 31S Rge. 32 East
..... West

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

Lease Name.....Stoll Well #.....1-27

Field Name.....

Producing Formation.....Morrow

Elevation: Ground.....2848' KB.....2859'

Section Plat

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

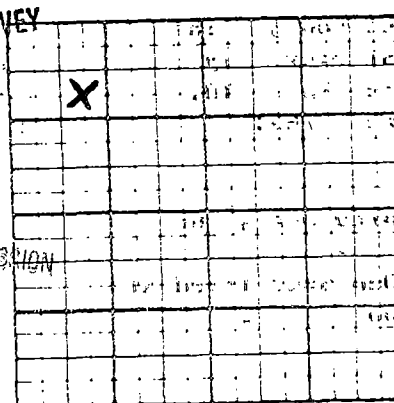
10-25-89

RECEIVED

OCT 25 1989

CONSERVATION DIVISION
Wichita, Kansas

OCT 30 1989



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:
Division of Water Resources Permit #...T. 89-405...

Groundwater. 4290 Ft North from Southeast Corner
(Well) 4290 Ft West from Southeast Corner of
Sec 27 Twp 31S Rge 32 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 complied with and the statements herein are complete and correct to the best of my knowledge.

Signature L. T. Hartnett

Title: Manager, Operations Date 10/23/89

Subscribed and sworn to before me this 23 day of October, 1989

Notary Public Denise J. Steers

Date Commission Expires My Commission expires October 21, 1991

621 17th St. Suite 1800
Denver, Colorado 80293

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

SIDE TWO

Operator Name Ensign Operating Co. Lease Name Stoll Well # 1-27

Sec. 27 Twp. 31S Rge. 32 East West County Seward **RELEASED**

WELL LOG

JUN 14 1991

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report interval 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.

FROM CONFIDENTIAL

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST #1: 5438-80', Basal Atoka. 30, 60, 60, 120.
 1st Blow - Vy wk, 3/4"; 2nd Blow - 1/4",
 died in 8 min. Recovered 180' mud.
 Pressures: HP 2773-2659
 FP 51-62, 103-114
 SIP 290-435

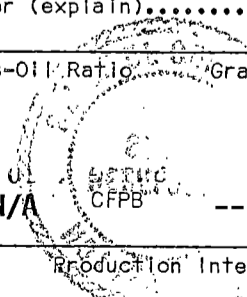
DST #2: 5471-5627', Morrow. 30, 60, 60, 120.
 GTS in 4 min. 2916 MCF at 30 min. Final
 open stabilized at 2916 MCF. Recovered
 400' VHGM.
 Pressures: FP 676-745, 656-705
 SIP 1734-1734
 HP 2769-2613
 BHT 127 F

Name	Top	Bottom
Sand	0	344'
Red Bed	344'	1,590'
Anhydrite	1,590'	1,742'
Sand and Shale	1,742'	2,140'
Lime and Shale	2,140'	5,900'
Rotary Total Depth		5,900'

Log Tops:

Atoka	5259'
Basal Atoka Porosity	5444'
Morrow	5462'
Morrow SS	5531'
Basal Morrow SS	5577'
Chester	5598'
Ste. Gen	5703'

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	12-1/4"	8-5/8"	24#	1727'	35-65 Pop	515	2% cc
Production	7-7/8"	4-1/2"	10.5#	5730'	Class C	150	2% cc
					Class H	325	3% KCL
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
4	5578-5594'			800 gal. 7-1/2% MCA		5575'	
	EZ Drill Bridge Plug						
4	5534-5555'						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size	Set At	Packer at					
2-3/8"	5556'	--					
Date of First Production	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
When hooked up to gas sales line							
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio		Gravity	
	0 Bbls	1422 MCF	0 Bbls	N/A		--	



METHOD OF COMPLETION

Production Interval

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

... Morrow

... 5534-5555' ...

001 15 1991
 Dually Completed
 Completed
 1991 06 14 12 00

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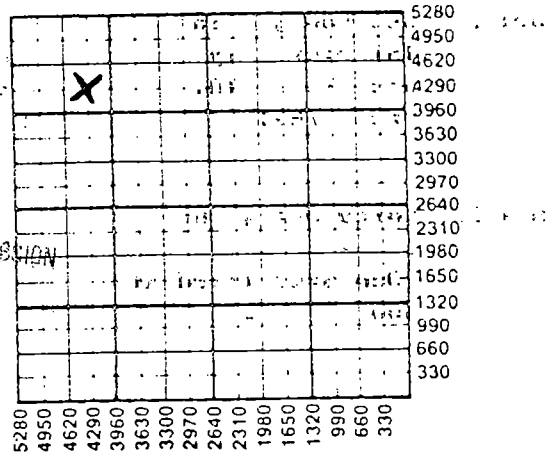
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County..... **Seward**
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..... **4290** Ft North from Southeast Corner of Section
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Field Name.....
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CORPORATION COMMISSION
OCT 25 1980
CONSERVATION DIVISION
Wichita, Kansas

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Signature **L. T. Hartnett**
Title **Operations** Date **10/23/89**

Subscribed and sworn to before me this **23** day of **October**, 19**89**
Notary Public **Denise J. Steers**

Date Commission Expires **My Commission expires October 21, 1991**
621 17th St. Suite 1800
Denver, Colorado 80293

K.C.C. OFFICE USE ONLY
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(Specify)