

26-31-32W 2/14/88

KCC

and

RELEASED

SIDE ONE

Date: 10/1/2008 STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECORDING FORM
ADD-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

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

Purchaser.....Northern Natural.....
.....

Operator Contact Person Mr. Larry Hartnett
Phone 303-293-9999

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

Wellsite Geologist..... Duane Moredock.....
Phone..... (303) 629-7204.....

Designate Type of Completion

☒ New Well	☐ Re-Entry	☐ Workover
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<u> </u> Oil	<u> </u> SWD	<u> </u> Temp Abd
<u>X</u> Gas	<u> </u> Inj	<u> </u> Delayed Comp.
<u> </u> Dry	<u> </u> Other (Core, Water Supply etc.)	

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

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WELL HISTORY

Drilling Method: X Mud Rotary Air Rotary Cable

11-5-87..... 11-15-87..... 12-03-87.....
Spud Date Date Reached TD Completion Date

5,900'..... 5,558'.....
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at.....feet ¹⁷⁴⁴
Multiple Stage Cementing Collar Used? X 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-.....175-20-985.....
County.....Seward.....
SW... NE... NE... Sec. 26 Twp. 31S Rge. 32... X East
West
.....4290..... Ft North from Southeast Corner of Section
.....990..... Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

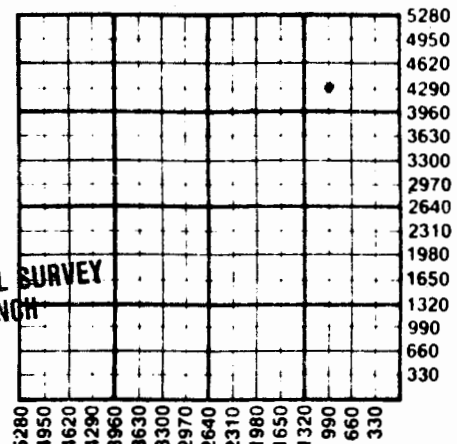
Lease Name..... Feiertag Well #. 1-26

Field Name.....

Producing Formation.....Morrow.....

Elevation: Ground.....2840'.....KB.....2851'.....

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: X 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 #.....T87-484.....

X Groundwater. 4290..Ft North from Southeast Corner
(Well) ...990..Ft West from Southeast Corner of
Sec 26 Twp 31S Rge 32 East X 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 slide 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 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 Sam Harris

Title.....Manager, Operations..... Date 12/09/87.....

Subscribed and sworn to before me this 28th day of June 1987...

Notary Public.....*Genelove S. Turner*.....**GENEVA, DE**.....

Date Commission Expires... Oct 20 1968

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached
Wireline Log Received
Drillers Timelog Received

Distribution

☒ KCC	☐ SWD/Rep	☐ NGPA
☒ KGS	☐ PI ug	☐ Other
		(Specify)

Form ACO-1 (5-86)

DEC 16 1987

**KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH**

26 June 2003

SIDE TWO

Operator Name Ensign Operating Co. Lease Name Feiertag Well # 1-26

Sec. 26 Twp. 31S Rge. 32 ☐ East
☒ West County Seward

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, 5630-5470' Atoka
30-60-60-120
I.O. 1/2" to bottom of bucket in 11 minutes.
F.O. Strong blow - bottom of bucket
Recovery: 1300' Gas in drill pipe.
65' Gassy slightly oil cut mud.
Grind Out: 5% gas, 5% oil, 90% mud.
HP 2793-2609 SIP 775-1073
FP 133-111, 111-111 BHT 124° F

DST #2, 5460-5570' Morrow
30-60-60-120
I.O. Gas to surface in 2 minutes.
Recovery: 285' gas cut mud with oil specks in tool.
HP 2722-2583 SIP 1780-1791
FP 550-569, 334-354 BHT 134° F

Name	Top	Bottom
Sand and Red Bed	0	901'
Red Bed and Anhydrite	901'	1,410'
Sand and Anhydrite	1,410'	1,533'
Shale and Anhydrite	1,533'	1,745'
Sand and Red Bed	1,745'	2,093'
Anhydrite	2,093'	2,525'
Shale and Anhydrite	2,525'	2,900'
Shale and Lime	2,900'	3,210'
Lime and Shale	3,210'	5,900'
Rotary Total Depth		5,900'

Name	Top	Bottom
Herrington	2,638'	
Topeka	3,724'	
Heebner	4,211'	
Lansing	4,322'	
Marmaton	4,951'	
Atoka	5,254'	
Morrow	5,451'	
Chester	5,556'	
Ste. Gen.	5,716'	

CASING RECORD ☒ New ☐ Used St. Louis 5,757'							
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#	1744'	15-85 Poz Class A	400	8% gel 2% cc
Production	7-7/8"	4-1/2"	10.5#	5609'	Class H	325	3% gel 2% CBL .7% LS 322

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	5501-5505'	None	
	5508-5518'		

TUBING RECORD		Liner Run ☐ Yes ☒ No	
Size	Set At	Packer at	
2-3/8"	5518'	N/A	

Date of First Production	Producing Method				
Waiting on pipeline hookup.	☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....				
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	0 Bbls	817 MCF	0 Bbls	-- CFPB	--

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented ☐ Open Hole ☒ Perforation
☒ Sold ☐ Other (Specify) 5501-5505'
☐ Used on Lease ☐ Dually Completed 5508-5518'
☐ Commingled