

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

COPY

Operator: License # 04782

Name: Ensign Operating Co.

Address P. O. Box 2161

City/State/Zip Liberal, KS. 67905-2161

Purchaser: KN Energy

Operator Contact Person: Wes Willimon

Phone (316) 626-8131

Contractor: Name: Cheyenne Drlg. Inc

License: 5382

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD S10W Temp. Abd.
 Gas ENHR S1GW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old To MAR 4 Depth _____

Deepening Re-perf. _____

Plug Back _____

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

11/29/97 12/01/97 12/22/97
Spud Date Date Reached TD Completion Date

API NO. 15. 175-21680-0000 APR 09 1999

County Seward

Approx. C - SE - Sec. 22 Twp. 92S Rng. 32 E/W X W

1250 Feet from WN (circle one) Line of Section

1250 Feet from WN (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE NW or SW (circle one)

Lease Name Roehr Well # 1-22

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2821' KB 2826'

Total Depth 2900' PBTD 2848'

Amount of Surface Pipe Set and Cemented at 642 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ ex cat.

Drilling Fluid Management Plan ALT 1 JK 7-7-98
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 6,800 bbls

Dewatering method used Evaporation & Backfill To

Original Contour.

Location of fluid disposal if heeled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 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 geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. 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 Wes Willimon

Title Production Supt. Date 03/04/98

Subscribed and sworn to before me this 4th day of March, 1998.

Notary Public William L. Waldorf

Date Commission Expires Sept. 19, 1998

NOTARY PUBLIC - State of Kansas
WILLIAM L. WALDORF
My Exp. Exp. 9-19-1998

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NSPA
 KGS Plug Other
JDG (Specify)

Operator Name Ensign Operating Co. Lease Name Roehr Well # 1-22

Sec. 22 Twp. 32S Rge. 32 East West County Seward

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests (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
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run: **MICRORESISTIVITY**
COMPENSATED DENSITY/NEUTRON
See attached **DUAL INDUCTION**
CEMENT BOND

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Glorietta	1142'	
Base of Stone Corral	1711'	
Herrington	2622'	
Upper Krider	2654'	
Lower Krider	2686'	
Winfield	2736'	
Towanda	2791'	
DTD	2900'	
LTD	2908'	

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 1/2"	8-5/8"	24#	642'	Pre Plus Lite	200	2% CC & 1/2#/Sk.Flocel
Production	7-7/8"	5 1/2"	15.5#	2898'	Pre Plus Lite	300	1/4#/Sk.Flocel
					Pre Plus Cmt.	100	
					Pre Plus Cmt.	150	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
4 JSPF	2688-2700' (Lower Krider)		600 Gal. of 15% HCL Acid Cont'g 10# Ferch	
1 JSPF	2626, 2628, 2630, 2646, & 2648' (Herrington)		II Iron Control, 1 Gal. HAI-81, & 1 Gal. HC	
1 JSPF	2656, 2658, 2660, 2662, & 2664' (Upper Krider)		500 Gal. of 15% HCL Acid Cont'g 1 Gal. HC2 & 1 Gal. HAI-81.	
	Foam Frac'd Herrington & Upper Krider Zone (See Attachment)			

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	2607'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. 01/30/98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Sbls.	Gas	Mcf	Water	Sbls.	Gas-Oil Ratio	Grav
		N/A		160		0	N/A	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Cemented Other (Specify)

Production Interval: 2626 to 2700'

12/16/97 OPERATIONS @ 7:00 A.M. : PBDT 2848', RBP @ 2675', LOWER KRIDER PERFS 2688'-2700', HERRINGTON PERFS 2626', 2628', 2630', 2646', 2648', 1 JSPF, UPPER KRIDER PERFS 2656', 2658', 2660', 2662' & 2664', 1JSPF. FLOW TEST TO RESERVE PIT.

WORK DONE 12/15/97 (DAY 11) 40 HR SITP 150 PSIG, SICP 50 PSIG. BLEW TBG DOWN IN 1 MIN SWAB TEST THRU 2-3/8" TBG. IFL @ 2300'. MADE 3 RUNS REC 3 BLW. HES TREATED HERRINGTON PERFS & KRIDER PERFS DOWN 2-3/8" TBG & TBG/CSG ANNULUS W/ 4000 GALS 28% FE ACID CONT'G 3 GAL/M SGA HT

CONFIDENTIAL

COPY

RELEASED

APR 09 1999

KCC

FROM CONFIDENTIAL

MAR 4

CONFIDENTIAL

ENSIGN OPERATING CO
ROEHR # 1-22
1250' FEL - 1250' FSL
SEC 22 - T32S - R32W
SEWARD COUNTY, KS

GL: 2821' KB: 2826'
PTD: 2800'
RIG # 8

DRILLING CONTRACTOR CHEYENNE DRILLING INC.

PROSPECT: GRAY HALLADAY
AFE NUMBER: 97D033
API: NUMBER 175-21680-0000

DRILLING REPORT

GELLING AGENT, 3 GAL/M HC-2 SURFACTANT, 1 GAL/M HAI 81 CORROSION INHIBITOR, COMINGLED W/ 50 QUALITY FOAM AS FOLLOWS.

- 1) P 3000 GALS 28% GELLED ACID COMINGLED W/ 50 QUALITY FOAM. FLUID RATE 4 BPM, N2 RATE 1950 SCFM, TOTAL RATE 8 BPM, 395 SCF/BBL, 28,500 SCF. MTP 900 PSIG, ATP 880 PSIG, AIR 8 BPM.
- 2) P 550 GALS 2% KCL COMINGLED W/ 75 QUALITY FOAM. FLUID RATE .5 BPM, N2 RATE 650 SCF/M, TOTAL RATE 2 BPM, 1300 SCF/BBL, 17,000 SCF TO DISPL[LACE STAGE 1. MTP 800 PSIG, ATP 800 PSIG, AIR 2 BPM.
- 3) LEFT WELL SI FOR 30 MIN TO ALLOW FRACTURE TO CLOSE. SICP & SITP 800 PSIG AFTER 30 MIN SI.
- 4) P 1000 GALS 28% GELLED ACID COMINGLED W/ 50 QUALITY FOAM. FLUID RATE 4BPM, N2 RATE 1950 SCF/M, TOTAL RATE 8 BPM, 395 SCF/BBL, 9,000 SCF. MTP 860 PSIG, ATP 860 PSIG, AIR 8 BPM.
- 5) P 550 GALS 2% KCL WTR COMINGLED W/ 75 QUALITY FOAM. FLUID RATE 5 BPM, N2 RATE 650 SCF/M, 1300 SCF, MTP 900 PSIG ATP 900 PSIG, AIR 2 BPM. ISIP 870 PSIG, 30 MIN SIP 575 PSIG. TLTR 96 BAW, 26 BLW.

RU FLOWLINE TO RESERVE PIT. SET ADJ CK ON 48/64". START FLOWING BACK LOAD @ 1.00 P.M. 12/15/97. AFTER 3 HRS FCP 225 PSIG, FTP 10 PSIHG. LEFT WELL FLOWING SMALL STREAM OF WTR & FOAM TO PIT O/N.

DC:\$17,100

CC:\$145,500