

ORIGINAL

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-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: Enron

Operator Contact Person: Jerry Simmons

Phone (303) 293-9999

Contractor: Name: H-30 Drilling Inc.

License: 5107

Wellsite Geologist: None

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If **OWO**: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

8/8/90 8/15/90 8/29/90 (WOPI)
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21,146 0000

County Seward

NW SF SF Sec. 13 Twp. 31S Rge. 32 East West

990 Ft. North from Southeast Corner of Section

990 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

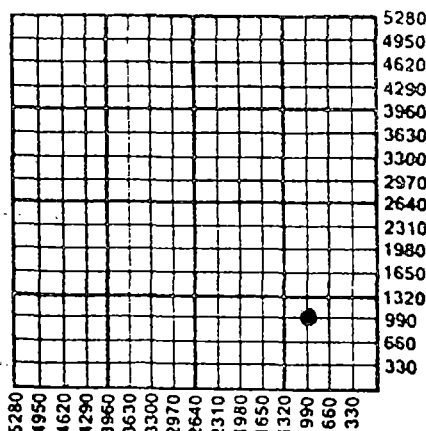
Lease Name Garten Well # 1-13

Field Name Thirty-One

Producing Formation Morrow

Elevation: Ground 2835' KB 2847'

Total Depth 5575' PBTD 5559'



Amount of Surface Pipe Set and Cemented at 1744' 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/ _____ sx cmr.

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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Connie Smith

Title Engineering Tech. Date 12/19/90

Subscribed and sworn to before me this 19 day of December

19 90 NELOPE J.
Notary Public

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 Garten Well # 1-13
 Sec. 13 Twp. 31S Rge. 32 East County Seward West

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
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Name	Formation Description		Bottom
	Top	Bottom	
Base Stone Corral			4203'
Anhy	1742'		Lansing 4294'
Hutchinson Salt	2207'		Marmaton 4920'
Chase Herrington	2632'		Cherokee 5096'
Krider	2668'		Atoka 5209'
Winfield	2728'		Morrow 5397'
Council Grove	3023'		Chester 5517'
Topeka	3753'		Total Depth 5575'
Hebner (top			
2nd Sh	4185'		

CASING RECORD

New 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#	1744'	Lite Wt. Class "C"	585	2% cc
Production	7-7/8"	4-1/2"	10.5#	5573'	Prim. Plus	150	2% cc 3% KCl

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 JSPE	5449-5455', 5457-5467', 5483-5489'	None	

TUBING RECORD

Size 2-3/8" Set At 5490' Packer At _____ Liner Run Yes No

Date of First Production <u>SI - WOPL</u>	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____ Morrow

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

ORIGINAL

INVOICE NO.

DATE

014352

08/16/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
GARTEN 1-13		SEWARD		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL		H-30 INC #1		CEMENT PRODUCTION CASING		08/16/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
273943	V W MCKNAB II			COMPANY TRUCK	00616	

ENSIGN OPERATING COMPANY
P O BOX 937
GARDEN CITY, KS 67846

DIRECT CORRESPONDENCE TO:
SUITE 1300
LIBERTY TOWER
100 BROADWAY AVENUE
OKLAHOMA CITY, OK 73102-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	31	MI	2.35	72.85
		1	UNT		
001-016	CEMENTING CASING	5584	FT	1,400.00	1,400.00
		1	UNT		
5A	FLOAT SHOE 4-1/2" 8RD SS II	1	EA	250.50	250.50 *
837.00100					
50	FLUIDMASTER CENTRALIZER 4 1/2"	7	EA	42.00	294.00 *
807.93504					
66	FASGRIP LIMIT CLAMP 4 1/2"	1	EA	9.60	9.60 *
807.64021					
593	3-WIPER L-D PLUG - 4 1/2"	1	EA	159.00	159.00 *
801.0373					
594	4 1/2" LATCH DOWN BAFFLE	1	EA	100.00	100.00 *
801.03734					
350	HALLIBURTON WELD-A	1	LB	11.00	11.00 *
890.10802					
018-317	SUPER FLUSH	18	SK	74.00	1,332.00
218-738	CLAYFIX II	2	GAL	20.00	40.00
504-043	PREMIUM CEMENT	150	SK	6.85	1,027.50 *
500-959	SUPER CBL	35	LB	21.50	752.50 *
507-775	HALAD-322	100	LB	5.75	575.00 *
508-002	POTASSIUM CHLORIDE	200	LB	.25	50.00 *
500-207	BULK SERVICE CHARGE	150	CFT	1.10	165.00 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	288.700	TMI	.75	216.53 *
INVOICE SUBTOTAL					6,455.48
DISCOUNT - (BID)					1,291.09-
INVOICE BID AMOUNT					5,164.39
*-KANSAS STATE SALES TAX					122.78
***** CONTINUED ON NEXT PAGE *****					

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT