

ORIGINAL

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RELEASED

APR 9 1991

SIDE ONE

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

API NO. 15- 189-21,462-00-00 CONFIDENTIAL
FROM CONFIDENTIAL

County Stevens
NW ~~NE~~ Sec. 36 Twp. 33S Rge. 36 ~~37~~ X East West

Operator: License # 04782

3890' Ft. North from Southeast Corner of Section

Name: Ensign Operating Co.

1390' 3890' Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Address 621 17th street

Lease Name Carpenter Well # 1-28

Suite 1800

Field Name Hugoton

City/State/Zip Denver, Colorado 80293

Producing Formation Chase

Purchaser: Spot Sales

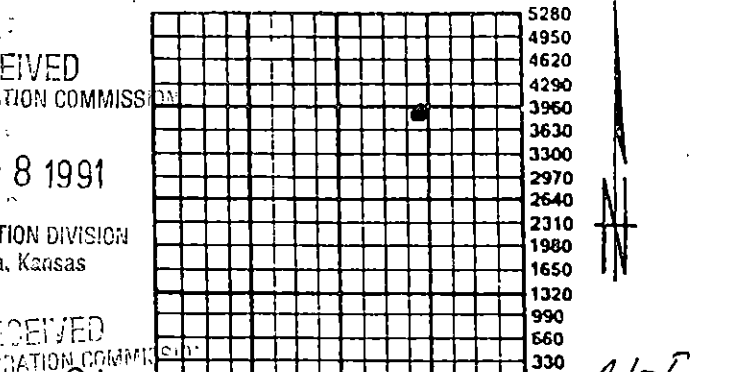
Elevation: Ground 3051' KB 3061'

Operator Contact Person: J. C. Simmons

Total Depth 2781' PBDT

Phone (303) 293-9999

Contractor: Name: Cheyenne Drilling, Rig #2



Licenses: _____ STATE CORPORATION COMMISSION

Wellsite Geologist: None

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STATE CORPORATION COMMISSION
Wichita, Kansas

Designate Type of Completion

New Well _____ Re-Entry _____ Workover CONSERVATION DIVISION

_____ 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 _____

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Wichita, Kansas

Drilling Method:

Mud Rotary _____ Air Rotary _____ Cable

11/12/90 11/14/90 2/15/91

Spud Date _____ Date Reached TD _____ Completion Date _____

Amount of Surface Pipe Set and Cemented at 687' 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 cmt.

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 Conrad Smith

Title ENVELOPE Engineering Tech. Date 3/6/91

Subscribed and sworn to before me this 6 day of March, 19 91

Notary Public Conrad J. Stiers

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

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)

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SIDE TWO

Operator Name: Ensign Operating Co. Lease Name: Carpenter Well # 1-28

Sec. 28 Twp. 33S Rge. 36 East West County: Stevens

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.)

Formation Description

Log Sample

Name	Top	Bottom
Top Glorietta	1831'	1230'
Base Stone Corral	1287'	1774'
Herrington	411'	2650'
U. Krider	375'	2686'
L. Krider	348'	2713'
Winfield	273'	2768'
TD	280'	2731'

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"	23	687	Lite	200	1/4#/sx Celloseal
Production	7-7/8"	5-1/2"	15.5	2780	Class "C"	150	2% CaCl2
					HLC	355	1/4#/sx Flocele
					Class "H"	50	

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 JSPF	2650-2702'; 2712-2752'; 2768-2772'	100,000 gals Boragel G3190	2650-2772
		325,000# 12/20 Mesh Sd	" "

TUBING RECORD Size 2-3/8" Set At 2774' Packer At _____ Liner Run Yes No

Date of First Production SI - WOPL Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

METHOD OF COMPLETION Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____



ORIGINAL

DUPLICATE INVOICE

CONFIDENTIAL

The Western Company of North America

P.O. BOX 94480 TULSA, OKLAHOMA 74194
(817) 731-5100

RELEASED
APR 06 1991
CONFIDENTIAL
FROM CONFIDENTIAL

TO ENSIGN OPERATING COMPANY
621 17TH STREET, SUITE 1800
DENVER, CO 80293

TERMS NET CASH DUE ON OR BEFORE 30 DAYS AFTER DATE OF INVOICE

FEDERAL I.D. NO. C 75-0763484

INVOICE NO.
360724

PLEASE DISREGARD THIS INFORMATION
28018 12 25 15 1 20 9

DATE		OUR RECEIPT NO.	SERVICES FROM OUR STATION AT	OUR ENGINEER	SIGNED FOR YOU BY
MO.	DAY	YR.			
11	12	90	124092 PERRYTON CEMENTI ABBINGTON		MCGRIFF
FOR SERVICING WELL NAME			COUNTY	STATE	YOUR ORDER NO.
CARPENTER 1-28			STEVENS	KS	

UNITS	CODE	DEPTH AND DESCRIPTION	UNIT PRICE	AMOUNT
1.0	F0035	CEMTRG CSNG, 1ST 8 HRS, 501-1000'	630.000	630.00
6.0	K1005	MILEAGE CHARGE, PER UNIT, PER MILE	2.350	14.10
6.0	K1025	MILEAGE AUTO/PICK-UP/TREATING VAN	.800	4.80
384.0	M1005	SERVICE CHARGE LAND JOBS PER CU FT	1.100	422.40
99.7	M2305	DELIVERY CHARGE PER TON MILE	.750	74.78
630.0	P0527	CALCIUM CHLORIDE-TEXAS PANHANDLE, LB	.322	202.86
87.0	P1715	CELLO-SEAL, PER LB	1.600	139.20
1.0	P3255	THREAD LOCKING COMPOUND, PER BOX	20.000	20.00
1.0	P3625	CEMTRG PLG, RUBR, TOP, 8 5/8", EA	90.000	90.00
150.0	P392N	PREM PLUS CMT, SK, HUGOTON, KS	7.500	1,125.00
200.0	P452F	PACSETER LITE II, PERRYTON, TX	7.800	1,560.00
1.0	13365	8-5/8" G/S, NOTCHED, BRD	185.000	185.00
2.0	17068	8-5/8" CENTRALIZER, W/PIN	58.000	116.00
1.0	17135	8-5/8" STOP COLLARS	19.000	19.00
1.0	17180	8-5/8" INSERT, ALUM AUTO BRD STC	265.000	265.00
		SUB TOTAL		4,868.14
	90200	SALES CONCESSION ON SERVICES		1,119.67-

RECEIVED
STATE CORPORATION'S COMMISSION

MAR - 8 1991

CONSERVATION DIVISION

PAY THIS AMOUNT

ORIGINAL



HALLIBURTON SERVICES
A Halliburton Company

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

KGC
RELEASES
APR 06 1991
CONFIDENTIAL
FROM CONFIDENTIAL

INVOICE NO.	DATE
043067	11/15/199

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
CARPENTER 1-28		STEVENS		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
LIBERAL	CHYENNE DR LG.	CEMENT PRODUCTION CASING		11/15/199	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	B.J.MCGRIFF			COMPANY TRUCK	0582

RECEIVED
ENSIGN OPERATING COMPANY STATE CORPORATION COMMISSION
P O BOX 937
GARDEN CITY, KS 67846

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

CONSERVATION DIVISION
Wichita, Kansas

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	29	MI	2.35	68.15
000-118	MILEAGE SURCHARGE-CEMENT-LAND	29	MI	.40	11.60
001-016	CEMENTING CASING	2804	FT	1,045.00	1,045.00
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	104.00	104.00
825.205		1	EA		
40	CENTRALIZER 5-1/2" MODEL S-4	3	EA	44.00	132.00
807.93022					
350	HALLIBURTON WELD-A	1	LB	11.00	11.00
890.10802					
80	FORM PKR SHOE FLAP VLV 5 1/2"	1	EA	2,400.00	2,400.00
855.137					
82	FILL-UP UNIT	1	EA	45.00	45.00
855.02545					
999-086	ITEMS FURNISHED BY OTHERS	1	EA	120.00	120.00
504-043	PREMIUM CEMENT	50	SK	6.85	342.50
504-120	HALL. LIGHT -PREMIUM PLUS	375	SK	6.29	2,358.75
507-210	FLOCELE	94	LB	1.30	122.20
500-307	MILEAGE SURCHARGE-CEMENT MAT.	RD 130.97	TMI	.10	13.10
500-207	BULK SERVICE CHARGE	RD 432	CFT	1.10	475.20
500-306	MILEAGE CMTG MAT DEL OR RETURN	130.97	TMI	.75	98.23
INVOICE SUBTOTAL		LOE _____			7,346.73
DISCOUNT-(BID)		W/O _____			1,469.34-
INVOICE BID AMOUNT		CAP _____			5,877.39
*-KANSAS STATE SALES TAX		APPROVAL _____			207.03
*-SEWARD COUNTY SALES TAX					48.72
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$6,133.14

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