

ORIGINAL SIDE ONE

CONFIDENTIAL APR 09 1992

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 Street

Suite 1800

City/State/Zip Denver, Colorado 80293

Purchaser: Spot Sales

Operator Contact Person: J. C. Simmons

Phone (303) 293-9999

Contractor: Name: Cheyenne Drilling, Rig #2

License: _____

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 OWM: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

11/8/90 11/10/90 2/13/91

Spud Date _____ Date Reached TD _____ Completion Date _____

API NO. 15- 189-21,463-00-00 FROM CONFIDENTIAL

County Stevens

SE sec. 20 Twp. 33S Rge. 36 East West

1390 Ft. North from Southeast Corner of Section

1250 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

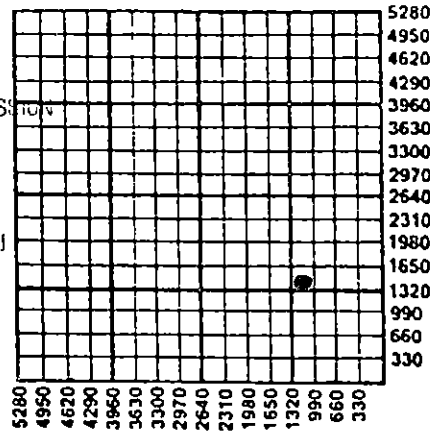
Lease Name Carpenter Well # 1-20

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3060' KB 3070'

Total Depth 2792' PBTD 2792'



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 cmr.

RECEIVED
STATE CORPORATION COMMISSION
MAR - 8 1991
CONSERVATION DIVISION
Wichita, Kansas

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-1 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 [Signature]

Title Sr. Engineering Tech. Date 3/6/91

Subscribed and sworn to before me this 6 day of March, 1991

Notary Public [Signature]

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)

CONFIDENTIAL

SIDE TWO

Operator Name Ensign Operating Co. Lease Name Carpenter Well # 1-20

Sec. 20 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		
Name	Top	Bottom
Base Stone Corral	1297'	1773'
Herrington	430'	2640'
U. Krider	396'	2674'
L. Krider	368'	2702'
Winfield	310'	2760'
TD	278'	2792'

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 Class "C"	200	2% CaCl ₂
Production	7-7/8"	5-1/2"	15.5	2792	HLC Class "H"	355	1/4#/sx Floccle

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
Shots Per Foot	Specify Footage of Each Interval Perforated		
2 JSPF	2642-2696'; 2706-2744'; 2760-2784'	100,000 Gals Boragell G3190 + 325,000# 12/20 Mesh Sd	2642-2784'

TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>2785'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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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
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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

APR 09 1992

P.O. BOX 94480 TULSA, OKLAHOMA 74117-0480 (817) 731-5100

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. 360460

PLEASE DISREGARD THIS INFORMATION 28018 12 25 15 1 20 9

Table with columns: DATE (MO, DAY, YR), OUR RECEIPT NO., SERVICES FROM OUR STATION AT, OUR ENGINEER, SIGNED FOR YOU BY. Values: 11 09 90, 134991, PERRYTON CEMENT, REEVES, MCGRIFF.

Table with columns: FOR SERVICING WELL NAME, COUNTY, STATE, YOUR ORDER NO. Values: CARPENTER 1-20, STEVENS, KS.

Main invoice table with columns: UNITS, CODE, DEPTH AND DESCRIPTION, UNIT PRICE, AMOUNT. Includes items like CEMENT CSNG, MILEAGE CHARGE, SERVICE CHARGE, etc.

RECEIVED STATE CORPORATION COMMISSION

MAR - 8 1991

CONSERVATION DIVISION

PAY THIS AMOUNT

ORIGINAL

ORIGINAL



RELEASED

APR 09 1992

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

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

FROM CONFIDENTIAL

INVOICE NO. DATE

043064 11/11/1992

WELL LEASE NO./PLANT NAME WELL/PLANT LOCATION STATE WELL/PLANT OWNER

CARPENTER 1-20 STEVENS KS SAME

SERVICE LOCATION CONTRACTOR JOB PURPOSE TICKET DATE

LIBERAL CHEYENNE #2 CEMENT PRODUCTION CASING 11/11/1992

ACCT. NO. CUSTOMER AGENT VENDOR NO. CUSTOMER P.O. NUMBER SHIPPED VIA FILE NO.

273943 B.J. MCGRIFF COMPANY TRUCK 0571

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

RECEIVED
STATE CORPORATION COMMISSION

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

MAR - 8 1991

PRICE REF. NO.	DESCRIPTION	CONSERVATION QUANTITY	U/M	UNIT PRICE	AMOUNT
	PRICING AREA - MID CONTINENT	Wichita, Kansas			
000-117	MILEAGE	28	MI	2.35	65.80
		1	UNT		
000-118	MILEAGE SURCHARGE-CEMENT-LAND	28	MI	.40	11.20
		1	UNT		
001-016	CEMENTING CASING	2790	FT	1,045.00	1,045.00
		1	UNT		
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	104.00	104.00
825.205					
40	CENTRALIZER 5-1/2" MODEL S-4	3	EA	44.00	132.00
807.93022					
80	FORM PKR SHOE FLAP VLV 5 1/2"	1	EA	2,400.00	2,400.00
855.137					
350	HALLIBURTON WELD-A	1	LB	11.00	11.00
890.10802					
999-086	CASING NIPPLE 5-1/2	1	EA	55.00	55.00
82	FILL-UP UNIT	1	EA	45.00	45.00
855.02545					
504-043	PREMIUM CEMENT	50	SK	6.85	342.50
504-120	HALL. LIGHT -PREMIUM PLUS	355	SK	6.29	2,232.95
507-210	FLOCELE	87	LB	1.30	113.10
500-307	MILEAGE SURCHARGE-CEMENT MAT.	214.03	TMI	.10	21.40
500-207	BULK SERVICE CHARGE	411	CFT	1.10	452.10
500-306	MILEAGE CMTG MAT DEL OR RETURN	214.03	TMI	.75	160.52
	INVOICE SUBTOTAL				7,191.57
DISC	DISCOUNT-(BID)				1,427.31-
W/O	INVOICE BID AMOUNT				5,764.26
CAP	-KANSAS STATE SALES TAX				203.78
APPROVAL	*-SEWARD COUNTY SALES TAX				47.94
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$6,015.98

Carpenter 1-20
R. Walker

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