

ORIGINAL

CONFIDENTIAL

RELEASED

APR 09 1992

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 Street, Suite 1800
Denver, Colorado 80293

City/State/Zip _____

Purchaser: _____

Operator Contact Person: J. C. Simmons

Phone (303) 293-9999

Contractor: Name: Gabbert-Jones, Rig #12

License: _____

Wellsite Geologist: Edwin H. Grieves

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Completion

Dry Other (Core, Water Supply, etc.)

If OWM: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Methods:

Mud Rotary Air Rotary Cable

1/24/91 1/10/91 P & A 2/11/91

Spud Date Date Reached TD Completion Date

API NO. 15- 189,21-474 ~~400-00~~ FROM CONFIDENTIAL

County Stevens

SE NW Sec. 27 Twp. 34S Rge. 36 East West

3300 Ft. North from Southeast Corner of Section

3300 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

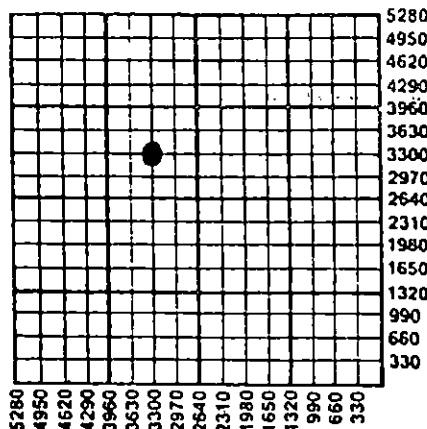
Lease Name Morford Well # 1-27

Field Name Unknown

Producing Formation None

Elevation: Ground 3057' KB 3069'

Total Depth 6600' PBTD _____



Amount of Surface Pipe Set and Cemented at 1754 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 *Penelope J. Steiers*

Title Sr. Engineering Tech. Date 2/28/91

Subscribed and sworn to before me this 28 day of February, 1991

Notary Public *Penelope J. Steiers*

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)

91

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SIDE TWO

Operator Name Ensign Operating Co. Lease Name Morford Well # 1-27

Sec. 27 Twp. 34S 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.)

See Attached

Formation Description

Log Sample

Name _____ Top _____ Bottom _____

See Attached

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	1754	65/35 Poz	550	6% Gel-1/4#/sx
					Class "C"	150	Cellulose-2% CaCl ₂

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First Production Dry 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) _____

Ensign Operating Co.
Stevens County, N.D.

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APR 09 1992

No. 1-27 Morford
Formation Tops

FROM CONFIDENTIAL

Tops:

Ensign
#1-27 Morford
C SE NW Sec. 27-34S-36W
KB 3069

Ensign
#1-22 Wells
C NE NW Sec. 22-34S-36W
KB 3091

	Sample	Log	Log
Base Stone Corral	1768	1760 + 1309	1795 + 1296
Wellington	2278	2259 + 810	2291 + 800
Herington	2659	2653 + 416	2676 + 415
Krider	2723	2710 + 359	2738 + 353
Winfield	2783	2764 + 305	2792 + 299
Towanda	2836	2825 + 244	2852 + 239
Ft. Riley	2895	2887 + 182	2922 + 174
Wreford	2991	2977 + 92	3006 + 85
Council Grove	3090	3078 - 9	3110 - 19
Wabaunsee	3420	3412 - 343	3446 - 351
Heebner	4288	4282 - 1213	4292 - 1197
Toronto	4309	4307 - 1238	4310 - 1219
Lansing/KC	4369	4366 - 1297	4367 - 1276
Marmaton	5153	5147 - 2078	5152 - 2061
Atoka	5506	5501 - 2432	5487 - 2396
Morrow FM	5909	5895 - 2826	5910 - 2819
Lower Mor. Sd. Zn.	6226	6223 - 3154	6227 - 3136
Chester	6346	6337 - 3268	6316 - 3225
St. Genevieve	6550	6509 - 3440	6539 - 3448
St. Louis	Not Penetrated		6614 - 3523
TD		6595	6795

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STATE CORPORATION COMMISSION

MAR 11 1991

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

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Drill-Stem Test Data

FROM CONFIDENTIAL

Well Name & No.	MORFORD #1-27	Test No.	1	Date	2/9/91
Company	ENSIGN OPERATING	Zone Tested	MORROW		
Address	621 17th #1800 DENVER CO	Elevation	3069		
Co. Rep./Geo	MR ED GRIEVES	Cont.	GABBERT-JONES	Est. Ft. of Pay	7
Location: Sec.	27	Twp.	34S	Rge.	36W
		Co.	STEVENS	state	KANSAS

Interval Tested	6230-6345	Drill Pipe Size	4.5" XH	
Anchor Length	115	Top Choke - 1"	Bottom Choke - 3/4"	
Top Packer Depth	6225	Hole Size - 7 7/8"	Rubber Size - 6 3/4"	
Bottom Packer Depth	6230	Wt. Pipe I.D. - 2.7 Ft. Run	0	
Total Depth	6345	Drill Collar - 2.25 Ft. Run	538	
Mud Wt.	8.8	lb/gal.	Viscosity	60
			Filtrate	7.6
Tool Open @	11:31 PM	Initial Blow	WEAK SURFACE BLOW TO 3" IN 30 MINUTES	

Final Blow WEAK SURFACE BLOW TO 2" IN 15 MINUTES-NO BLOW IN 30 MINUTES

Recovery - Total Feet	60	Flush Tool?	
Rec.	60	Feet of	MUD
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	
Rec.	0	Feet of	

BHT	136	°F Gravity		°API @	0	°F Corrected Gravity	0	°API
RW		@	°F Chlorides		ppm Recovery	Chlorides	700	ppm System
(A) Initial Hydrostatic Mud	3061.2	PSI	AK1 Recorder No.	13308	Range	4700		
(B) First Initial Flow Pressure	51.2	PSI	@ (depth)	6232	w/Clock No.	27573		
(C) First Final Flow Pressure	114.6	PSI	AK1 Recorder No.	12248	Range	4400		
(D) Initial Shut-in Pressure	197.8	PSI	@ (depth)	6250	w/Clock No.	31152		
(E) Second Initial Flow Pressure	51.2	PSI	AK1 Recorder No.	0	Range	0		
(F) Second Final Flow Pressure	77.6	PSI	@ (depth)	0	w/Clock No.	0		
(G) Final Shut-in Pressure	162.3	PSI	Initial Opening	30				
(H) Initial Hydrostatic Mud	2750.4	PSI	Initial Shut-in	60				
			Final Flow	60				
			Final Shut-in	120				

MAR 11 1991

CONSERVATION DIVISION
Wichita, Kansas

MR MARK HERSKOWITZ

1000

Our Representative _____

TOTAL PRICE \$ _____

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GABBERT-JONES, INC.
DRILLERS' WELL LOG
RELEASED

WELL NAME: MORFORD 1-27
SE-NW SEC. 27-34S-36W
STEVENS COUNTY, KANSAS

APR 09 1992

FROM CONFIDENTIAL

COMMENCED: 1-25-91

COMPLETED: 2-12-91

OPERATOR: ENSIGN OPERATING COMPANY

Depth		Formation	Remarks
From	To		
0	640	Sand-Clay	Ran 40 jts 24# 8 5/8"
640	1120	Redbed-Sand-Gyp	csg LD @ 1754' W/550 sks
1120	1500	Redbed-Gyp-Sand	65/35 Posmix 6% Gel- 1/4 # FS
1500	1755	Sand-Gyp	2% CC 150 sks Class C
1755	1860	Anhy-Redbed-Gyp	2% CC- PD @ 2:45 PM 1-26-91
1860	2245	Shale	
2245	2861	Shale-Lime	
2861	6600	Lime-Shale	

6600-TD

D & A

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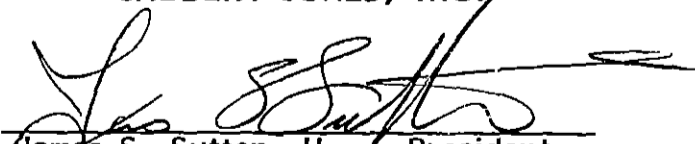
MAR 11 1991

CONSERVATION DIVISION
Wichita, Kansas

STATE OF KANSAS
COUNTY OF SEDGWICK

) I, the undersigned, being duly sworn on oath,
) state that the above Drillers' Well Log is true
) and correct to the best of my knowledge and
belief and according to the records of this office.

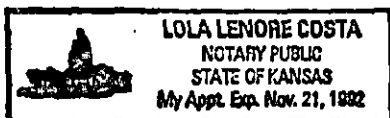
GABBERT-JONES, INC.


James S. Sutton, II. - President

Subscribed & sworn to before me this


Lola Lenore Costa

My commission expires Nov. 21, 1992



ORIGINAL
INVOICE



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

INVOICE NO.	DATE
093433	02/11/1991

WELL LEASE NO./PLANT NAME MARFORD 1-27		WELL/PLANT LOCATION STEVENS		STATE KS	WELL/PLANT OWNER SAME
SERVICE LOCATION LIBERAL		CONTRACTOR GABBERT & JONES	JOB PURPOSE PLUG TO ABANDON		TICKET DATE 02/11/1991
ACCT. NO. 273943	CUSTOMER AGENT W B HAWKINS	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 11006

RECEIVED
MAR - 8 1991

ENSIGN OPERATING COMPANY
1515 AIR PARK AVENUE
P.O. BOX 2161
LIBERAL, KS 67905-2161

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
200 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	15	MI	2.35	35.25
		1	UNT		
000-118	MILEAGE SURCHARGE-CEMENT-LAND	15	MI	.40	6.00
		1	UNT		
009-019	PLUGGING BK SPOT CEMENT OR MUD	3000	FT	1,040.00	1,040.00
		1	UNT		
504-043	PREMIUM CEMENT	135	SK	6.85	924.75
506-105	POZMIX A	90	SK	3.91	351.90
506-121	HALLIBURTON-GEL 2%	4	SK	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	8	SK	13.75	110.00
500-207	BULK SERVICE CHARGE	241	CFT	1.10	265.10
500-306	MILEAGE CMTG MAT DEL OR RETURN	152.812	TMI	.75	114.61
500-307	MILEAGE SURCHARGE-CEMENT MAT.	152.812	TMI	.10	15.28
INVOICE SUBTOTAL					2,862.89
DISCOUNT-(BID)					572.57-
INVOICE BID AMOUNT					2,290.32
*-KANSAS STATE SALES TAX					96.81
*-SEWARD COUNTY SALES TAX					22.79
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$2,409.92

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STATE CONSERVATION COMMISSION
MAR 12 1991
CONSERVATION DIVISION
Wichita, Kansas

*Marford 1-27
Rucker*

LOE _____
W/O _____
CAP _____
APPROVAL _____

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

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

INVOICE

CONFIDENTIAL

HALLIBURTON SERVICES

APR 09 1992

ORIGINAL

A Halliburton Company

FROM CONFIDENTIAL

INVOICE NO.	DATE
093433	02/11/1991

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
MARFORD 1-27		STEVENS		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL		GABBERT & JONES		PLUG TO ABANDON		02/11/1991
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER		SHIPPED VIA	FILE NO.
273943	W B HAWKINS				COMPANY TRUCK	11006

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MAR 8 1991

ENSIGN OPERATING COMPANY
1515 AIR PARK AVENUE
P.O. BOX 2161
LIBERAL, KS 67905-2161

ENSIGN OIL & GAS INC

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

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PRICING AREA - MID CONTINENT					
000-117	MILEAGE	15	MI	2.35	35.25
		1	UNT		
000-118	MILEAGE SURCHARGE-CEMENT-LAND	15	MI	.40	6.00
		1	UNT		
009-019	PLUGGING BK SPOT CEMENT OR MUD	3000	FT	1,040.00	1,040.00
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MAR 12 1991

CONCRETE DIVISION
Wichita, Kansas

Marford 1-27
Rucker

LOE _____
W/O _____
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APPROVAL _____

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