

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 # 5428

Name: Graves Drilling Co., Inc.

Address P. O. Box 8250

Wichita, KS 67208

City/State/Zip Wichita, KS 67208-0250

Purchaser: _____

Operator Contact Person: Fred Stump

Phone (316) 687-2777

Contractor: Name: White & Ellis Drilling

License: 5420

Wellsite Geologist: _____

Designate Type of Completion

- New Well Re-Entry Workover
- Oil SWD Temp. Abd.
- Gas Inj Delayed Comp.
- Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

- Mud Rotary Air Rotary Cable

9-4-89 9-8-89 9-9-89 ^{KCC} _{KC}

Spud Date Date Reached TD Completion Date

API NO. 15- 163-23,058 -00-00

County Rooks

SE NE SW Sec. 29 Twp. 9S Rge. 19 East West

1650 Ft. North from Southeast Corner of Section

2970 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

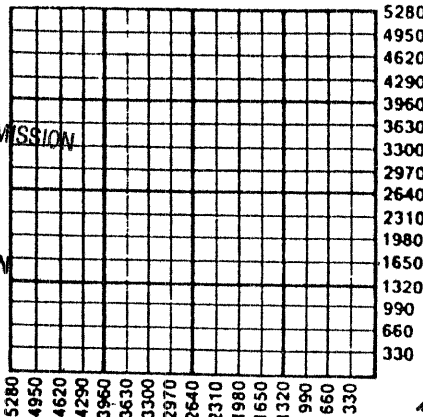
Lease Name Ferland Well # 1

Field Name _____

Producing Formation _____

Elevation: Ground 2174' KB 2177'

Total Depth 3720' PBTD _____



Amount of Surface Pipe Set and Cemented at 261 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 Fredrick W Stump

Title Geologist Date _____

Subscribed and sworn to before me this 30th day of September, 19 89.

Notary Public Phyllis A. Freeman

Date Commission Expires 6-9-90 Phyllis A. Freeman

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)

PHYLLIS A. FREEMAN
NOTARY PUBLIC
STATE OF KANSAS
My Appl. Exp. 6-9-90

SIDE TWO

Operator Name Graves Drilling Co., Inc. Lease Name Ferland Well # 1
 Sec. 29 Twp. 9 Rge. 19 East County Rooks
 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 (Attach Additional Sheets.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p style="text-align: center;">Formation Description</p> <p style="text-align: center;"><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>1580'</td> <td>(+599')</td> </tr> <tr> <td>Base Anhy</td> <td>1618'</td> <td>(+561')</td> </tr> <tr> <td>Topeka</td> <td>3153'</td> <td>(-974')</td> </tr> <tr> <td>Heebner</td> <td>3364'</td> <td>(-1185')</td> </tr> <tr> <td>Toronto</td> <td>3384'</td> <td>(-1205')</td> </tr> <tr> <td>Lansing</td> <td>3403'</td> <td>(-1224')</td> </tr> <tr> <td>BKC</td> <td>3612'</td> <td>(-1433')</td> </tr> <tr> <td>TD</td> <td>3721'</td> <td></td> </tr> </tbody> </table>	Name	Top	Bottom	Anhydrite	1580'	(+599')	Base Anhy	1618'	(+561')	Topeka	3153'	(-974')	Heebner	3364'	(-1185')	Toronto	3384'	(-1205')	Lansing	3403'	(-1224')	BKC	3612'	(-1433')	TD	3721'	
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CASING RECORD <input 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"	20#	261'	60/40poz	160sx	2% gel, 3%cc
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				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
	Size	Set At	Packer At				
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio
Estimated Production Per 24 Hours							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 _____

CUSTOMER COPY

INVOICE



A DIVISION OF HALLIBURTON COMPANY

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

INVOICE NO	DATE
835836	09/08/1989

WELL LEASE NO.		WELL LOCATION		STATE	WELL OWNER
FERLAND 1		ROOKS		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
HAYS		WHITE & ELLIS		PLUG TO ABANDON	
TICKET DATE		09/08/1989			
ACCT NO	CUSTOMER AGENT	VENDOR NO	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO
337790	KENNETH JULIAN			COMPANY TRUCK	82276

15-163-23058-00-00

GRAVES DRILLING CO INC
800 TALLGRASS EXECUTIVE PARK
8100 E. 22ND STREET
WICHITA, KS 67226

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE/REF NO	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	11	MI	2.20	24.20 *
		1	UNT		
090-910	MISCELLANEOUS PUMPING JOB	1	TRK	370.00	370.00 *
030-503	CMTG PLUG LA-11,CP-1,CP-3, TOP	8 5/8	IN	58.00	58.00
		1	EA		
504-308	STANDARD CEMENT	114	SK	5.45	621.30 *
506-105	POZMIX A	76	SK	2.88	218.88 *
506-121	HALLIBURTON-GEL 2X	3	SK	.00	N/C *
507-277	HALLIBURTON-GEL BENTONITE	7	SK	13.00	91.00 *
507-210	FLOCELE	48	LB	1.21	58.08 *
500-207	BULK SERVICE CHARGE	190	CFT	.95	180.50 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	95.634	TMI	.70	66.94 *
INVOICE SUBTOTAL					1,688.90
DISCOUNT-(BID)					303.97-
INVOICE BID AMOUNT					1,384.93
* - KANSAS STATE SALES TAX					56.82
* - HAYS CITY SALES TAX					6.69
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$1,448.44

RECEIVED
STATE CORPORATION COMMISSION
NOV - 6 1989
CONSERVATION DIVISION
Wichita, Kansas

5304 - 112026

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.

INVOICE
INVOICE



A DIVISION OF HALLIBURTON COMPANY

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

INVOICE NO.	DATE
835832	09/04/1989

WELL LEASE NO.		WELL LOCATION		STATE	WELL OWNER	
FERLAND 1		ROOKS		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
HAYS		WHITE & ELLIS		CEMENT SURFACE CASING		09/04/1989
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
337790	JAMES CROWWELL			COMPANY TRUCK	81984	

15-163, 152, 1358, 3058, 00-00

GRAVES DRILLING CO INC
800 TALLGRASS EXECUTIVE PARK
6100 E. 22ND STREET
WICHITA, KS 67226

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	11	MI	2.20	24.20
		1	UNT		
001-016	CEMENTING CASING	261	FT	395.00	395.00
		1	UNT		
030-503	CMTG PLUG LA-11, CP-1, CP-3, TOP	8 5/8	IN	58.00	58.00
		1	EA		
504-308	STANDARD CEMENT	96	SK	5.45	523.20
506-105	POZMIX A	64	SK	2.88	184.32
506-121	HALLIBURTON-GEL 2X	3	SK	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	4	SK	25.75	103.00
500-207	BULK SERVICE CHARGE	166	CFT	.95	159.60
500-306	MILEAGE CMTG MAT DEL OR RETURN	79.09	TMI	.70	55.36
INVOICE SUBTOTAL					1,502.68
DISCOUNT - (BID) <i>9-9-89</i>					375.67
INVOICE BID AMOUNT					1,127.01
*-KANSAS STATE SALES TAX					32.69
*-HAYS CITY SALES TAX					3.85
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$1,163.55

5304 - 1120216

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.