

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

Operator: License # 5428

Name: Graves Drilling Co., Inc.

Address P.O. Box 8250

City/State/Zip Wichita, Kansas

Purchaser: _____

Operator Contact Person: Fredrick W. Stump

Phone (316) 667-2777

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Arden Ratzlaff

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

03-09-96 03-15-96 03-15-96
Spud Date Date Reached TD Completion Date

API NO. 15- 095-21708 0000

County Kingman County, Kansas

NE NW NW Sec. 20 Twp. 28S Rge. 5 XX E

330 Feet from S/W (circle one) Line of Section

990 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Moorhouse Well # 1

Field Name Broadway

Producing Formation _____

Elevation: Ground 1413 KB 1421

Total Depth 3925' PSTD _____

Amount of Surface Pipe Set and Cemented at 226.50 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.

Drilling Fluid Management Plan D & A 6-14-96
(Data must be collected from the Reserve Pit) Lu

Chloride content 46 ppm Fluid volume 120 bbls

Deaerating method used hauled

Location of fluid disposal if hauled offsite: _____

Operator Name Pintail Petroleum LTD

Lease Name Wilson License No. 086

NW/4 Quarter Sec. 32 Twp. 27 S Rng. 5 W

County Kingman Docket No. CD 11808

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report 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.

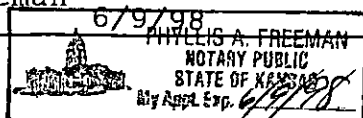
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Fredrick W. Stump
Title Geologist Date 5/1/96

Subscribed and sworn to before me this 1st day of May
19 96.

Notary Public Phyllis A. Freeman

Date Commission Expires 6/9/98



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
KCC SWD/Rep MGA
KGS Plug Other (Specify)

Operator Name Graves Drilling Co., Inc. Lease Name Moorhouse Well # 1

Sec. 20 Twp. 28S Rge. 5 East West county Kingman County, Kansas

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Indian Cave	1790	-369
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wabawnsee	1830	-409
List All E.Logs Run:		Heebner	2758	-1337
		Lansing	3033	-1612
		Stark	3402	-1981
		Upper Cherokee	3667	-2246
		Lower Cherokee	3704	-2283
		Mississippi Erosion	3825	-2404
		Mississippi CLN	3832	-2411
		TD	3925	-2504

CASING RECORD <input checked="" 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	12-1/4"	8-5/8"	20#	226.50	60/40 Poz	150	3%cc 2%gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	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
Date of First, Resumed Production, SWD or Inj.			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: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

MOORHOUSE #1
Graves Drilling Company, Inc.
DRILLING REPORT

Well Name: **MOORHOUSE #1**
 Location: **C NE NW 1/4/20/28S/5W**
 County / State: **KINGMAN, KS**
 GL Level: **1413**
 KB Level: **1421**

API Code: **15-095-21,708**
 Lease Name: **MOORHOUSE**
 Field: **BROADWAY**
 Contractor: **DUKE DRILLING CO.**
 Operator: **GRAVES DRLG CO**

 Current Date: **18-Mar-96**

Page 1 of 1

Drilling Report Details

Date	Start Depth	Operation	Remarks
3/9/96	0	MIRU	MIRU. Spud well at 1:00 pm with 12-1/4" Bit. Drill to 227 ft. and set 8-5/8" Surface Pipe. (See Casing Record for details). Cement plug down at 6:30pm. WOC. Straight Hole 3/4 degree.
3/10/96	590	Drilling ahead.	Drilling ahead.
3/11/96	1780	Drilling ahead.	Drilling ahead. SH 3/4 degree at 1334'.
3/12/96	2505	Drilling ahead.	Drilling ahead. SH 3/4 @ 1886' & 1/4 @ 2037'
3/13/96	3215	Drilling ahead.	Drilling ahead. SH 1/4 @ 2555' & 3067'.
3/14/96	3809	Drilling ahead.	Drilling ahead. Prep to run DST #1.
3/15/96	3864	Drilling ahead.	Trip in after DST #2. SH 1/2 @ 3852'.
3/18/96	3925	D&A	P&A Cement 35 sx @ 900', 35 sx @ 450', 35 sx @ 275', 25 sx @ 60' & 15 sx in RH, P.D. @ 8:50 p.m. 3/15/96.

Casing History

Size	Weight	Grade	Brand	Type	Condition	Set Depth	Footage
8-5/8"	20#	new		Surface	new	226.5	227

Cement Description: 150 sx 60/40 poz

DRILL STEM TEST RESULTS

DST	Date	Formation	Int Start	Int End	ISIP	FSIP	IFP	FFP	Time Interval
1	3/14/96	MISSISSIPPIAN	3834	3852	717	331	66-55	66-99	15-45-60-45
1st Open:		STRONG BLOW	2nd Open: GTS/22" MAX GA 10400 CF/60"		Recovery:		45' GSYWM, 45' SLIMW (55%M 45%W) 60' SLI MW (90%W)		
2	3/15/96	MISSISSIPPIAN	3852	3864	497	132	66-44	66-88	15-45-60-45
1st Open:		PRE FLOW STRONG BLOW	2nd Open: GTS/27" MAX GA 5000 CFG/60"		Recovery:		40' OGCMW (33% OIL 27% W), 60' OGCMW (40% OIL 35%W), 50' SOCMW (80%W) 10' WTR		

 RECEIVED
 KANSAS CORP
 APR 11 1996

Formation Tops

Formation Name	Current Well Top	Subsea Datum	Comments
Indian Cave	1790	-369	
Wabawsee	1830	-409	
Heebner	2758	-1337	
Brown Lime	2996	-1575	
Lansing	3033	-1612	
Stark	3402	-1981	
Upper Cherokee	3667	-2246	
Lower Cherokee	3704	-2283	
Mississippi Erosion	3825	-2404	
Mississippi CLN	3832	-2411	
TD	3925	-2504	

ORIGINAL



HALLIBURTON ORIGINAL

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

INVOICE

INVOICE NO.	DATE
968166	03/15/1996

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
BOORHOUSE 1		KINGMAN		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
PRATT	DUKE DRILLING	PLUG TO ABANDON		03/15/1996	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
37790	JOHN J ARMBRUSTER			COMPANY TRUCK	05282

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

DIRECT CORRESPONDENCE TO:
 P O BOX 428
 HAYS KS 67601
 913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
DRILLING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	100 MI		2.85	285.00
		1 UNT			
090-910	MISCELLANEOUS PUMPING JOB	1 TRK		395.00	395.00
504-136	CEMENT - 40/60 POZMIX STANDARD	145 SK		7.66	1,110.70
507-277	HALLIBURTON-GEL BENTONITE	2 SK		18.60	37.20
500-207	BULK SERVICE CHARGE	149 CFT		1.35	201.15
500-306	MILEAGE CMTG MAT DEL OR RETURN	315.20 TMI		.95	299.44

INVOICE SUBTOTAL

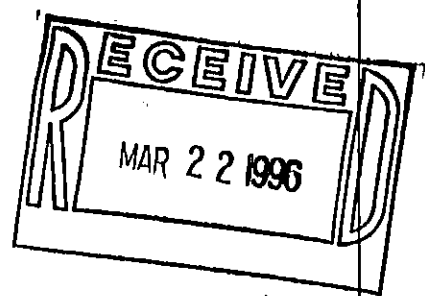
DISCOUNT-(BID)

INVOICE BID AMOUNT

*-KANSAS STATE SALES TAX

*-PRATT COUNTY SALES TAX

1996 MAY -3 A 11:52
 RECEIVED
 KANSAS CORP COMM
 328.49
 628.67-
 999.82
 33.29
 7.00



INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====> \$1,800.11

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

CUSTOMER COPY



HALLIBURTON ORIGINAL

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

INVOICE

INVOICE NO.	DATE
907022	03/09/1996

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
WELLHOUSE 1	KINGMAN	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
PRATT	DUKE DRILLING #2	CEMENT SURFACE CASING	03/09/1996
COI. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
37790	R G MILLER		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	04978

DIRECT CORRESPONDENCE TO:

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

P O BOX 428
HAYS KS 67601
913-625-3431

5304 112041

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
000-117	MILEAGE CEMENTING ROUND TRIP	100 MI		2.85	285.00
		1 UNT			
001-016	CEMENTING CASING	226 FT		585.00	585.00
		1 UNT			
030-503	WOODEN PLUG	8 5/8 IN		95.00	95.00
		1 EA			
504-136	CEMENT - 40/60 POZMIX STANDARD	150 SK		7.66	1,149.00
509-406	ANHYDROUS CALCIUM CHLORIDE	4 SK		36.75	147.00
500-207	BULK SERVICE CHARGE	158 CFT		1.35	213.30
500-306	MILEAGE CMTG MAT DEL OR RETURN	327.80 TMI		.95	311.41

INVOICE SUBTOTAL

2,785.71

DISCOUNT-(BID)

752.14

INVOICE BID AMOUNT

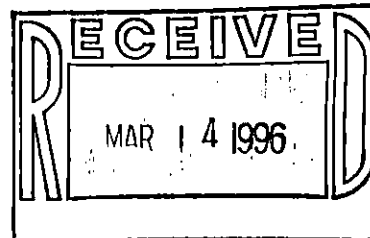
2,033.57

*-KANSAS STATE SALES TAX

68.53

*-PRATT COUNTY SALES TAX

13.98



INVOICE TOTAL - PLEASE PAY THIS AMOUNT *****

\$2,116.08

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.