

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
City/State/Zip Wichita, Ks 67208-8250

Purchaser: _____
Operator Contact Person: Fredrick Stump
Phone (316) 687-2777

Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Dean Pattieson

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/Reentry: Old Well Info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
6-10-97 6-16-97 6-17-97
Spud Date Date Reached TD Completion Date

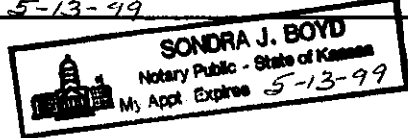
API NO. 15- 077-21326 0000
County Harper County, Kansas
C NE SW Sec. 18 Twp. 31S Rge. 8 E
X W
1980 Feet from S (circle one) Line of Section
3300 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE NW or SW (circle one)
Lease Name Bertholf Well # 1
Field Name Spivey Grabs
Producing Formation Mississippi
Elevation: Ground 1800' KB 1808'
Total Depth 4488' PBDT 4500'
Amount of Surface Pipe Set and Cemented at 268 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 ALT L JH 12-10-97
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume 320 bbls
Dewatering method used Trucked Water Off
Location of fluid disposal if hauled offsite: _____
Operator Name Jody Oil & Gas
Lease Name Sanders #3 License No. 03288
Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W
County Harper Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 EXPLORATION MANAGER Date 8-28-97
Subscribed and sworn to before me this 28TH day of AUGUST,
19 97.
Notary Public Sandra J. Boyd
Date Commission Expires 5-13-99



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

SIDE TWO

Operator Name Graves Drilling Company Lease Name Bertholf Well # 1

Sec. 18 Twp. 31S Rge. 8 East West
 County Harper 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 checked="" type="checkbox"/> Log Formation (Top), Depth and Datums	<input 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	Mississippi	4378 -2769
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E.Logs Run:	SONIC DUAL INDUCTION COMPENSATED DENSITY/PE		

CASING RECORD <input type="checkbox"/> New <input checked="" 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#	268'	60/40 Poz	185	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	4485'	50/50Poz	125	10%salt 2%gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
		4	4380-4395
		Frac 525 SX Sand	
		915 BF	

TUBING RECORD	Size 2-7/8	Set At 4419	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SMD or Inj. 7-03-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. 18	Gas Mcf 70	Water Bbls. 150	Gas-Oil Ratio 3.1 + .1	Gravity 32
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Disposition of Gas: METHOD OF COMPLETION Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled 4380
 Other (Specify) _____ 4395



REMIT TO:
 P O BOX 251046
 DALLAS, TX 75395-1046
 Corporate FIN 73-027128

INVOICE

HALLIBURTON ENERGY SERVICES, INC.

15-077-21326-0000

INVOICE NO.	DATE
219327	06/17/1997

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
ARTICLE 1		HARPER		KS	SAND
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
EART		MIKE DRILLING	SHOWN BELOW		06/17/1997
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
37790	R G HILDE			COMPANY TRUCK	25986

ORIGINAL

DIRECT CORRESPONDENCE TO:

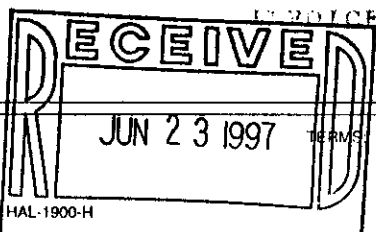
GRAVES DRILLING CO INC
 800 TALLGRASS EXECUTIVE PARK
 8100 E. 22ND STREET
 WICHITA, KS 67226

1102 E. 8TH
 HAYS KS 67601
 913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	WICING AREA - MID CONTINENT				
	OR PURPOSE - CEMENT PRODUCTION CASING				
000-117	MILEAGE CEMENTING ROUND TRIP	80	MI	3.20	256.00
		1	UNT		
000-119	MILEAGE FOR CREW	80	MI	1.95	N/C
		1	UNT		
001-016	CEMENTING CASING	4485	FT	1,926.00	1,926.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUN TOP	5.5	IN	66.00	66.00
		1	EA		
018-117	SUPER FLUSH	12	SK	112.00	1,344.00
019-393	CLAYFLY 11, PER GAL	2	GAL	30.50	61.00
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	121.00	121.00
875 205					
24A	INSERT FLOAT VALVE - 5 1/2" 8RD	1	EA	121.00	121.00
015 13251					
27	FILL-UP UNIT 5 1/2"-5 5/8"	1	EA	76.00	76.00
015 13313					
10	CENTRALIZER-S-1/2 X 7-7/8	5	EA	67.00	335.00
206 60022					
504-110	CEMENT - 50/50 POZMIX STANDARD	150	SK	7.69	1,153.50
504-225	HALAD-322	51	LB	7.70	392.70
504-268	SALT	700	LB	.17	119.00
504-291	GILSONITE BULK	1250	LB	.55	625.00
500-207	BULK SERVICE CHARGE			1.55	286.75
500-306	MILEAGE CHRG NAT DEL OR RETURN	292.00	TMI	1.18	344.65
	JOB PURPOSE SUBTOTAL				7,227.60
	SERVICE SUBTOTAL				7,227.60

1740-04 951408
 304-113044

8-29-97



***** CONTINUED ON NEXT PAGE *****

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

INVOICE



HALLIBURTON ENERGY SERVICES, INC.

15-077-2326-0000

REMIT TO: P O BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE NO.	DATE
✓ 719223	✓ 06/11/1997

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
WTRHOLE 1	HAPPER	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
WTRHOLE 1	DUKE DRILLING #1	SHOWN BELOW	06/11/1997		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
2299	R G MILLER			COMPANY TRUCK	25528

ORIGINAL

DIRECT CORRESPONDENCE TO: 1102 E. 8TH HAYS KS 67601 913-625-3431

GRAVES DRILLING CO INC 800 TALLEDESS EXECUTIVE PARK 8100 E. 23RD STREET WICHITA, KS 67226

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
00-117	MILEAGE CEMENTING ROUND TRIP	80	MI	3.20	256.00
		1	UNT		
00-119	MILEAGE FOR CREW	60	MI	1.95	N/C
		1	UNT		
01-016	CEMENTING CASING	270	FT	696.00	696.00
		1	UNT		
30-503	WOODEN PLUG	8	5/8 1M	95.00	95.00
		1	EA		
04-116	CEMENT - 40/60 POZMIX STANDARD	185	SK	8.14	1,505.90
09-405	ANHYDROUS CALCIUM CHLORIDE	5	SK	46.90	234.50
00-207	BULK SERVICE CHARGE	195	CFT	1.55	302.25
00-305	MILEAGE CHRG MAT DEL OR RETURN	323.520	TMI	1.18	381.75

JOB PURPOSE SUBTOTAL 3,471.40

INVOICE SUBTOTAL 3,471.40

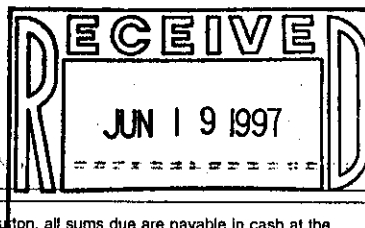
DISCOUNT - (BID) 1,284.40

INVOICE BID AMOUNT 2,187.00

2 - KANSAS STATE SALES TAX 77.77

2 - FRATT COUNTY SALES TAX 15.88

INVOICE TOTAL - PLEASE PAY THIS AMOUNT



8-27-97

\$2,280.65

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.