

ORIGINAL

SIDE ONE

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

API NO. 15- 007-22,297-00-00

County Barber

C W/2 W/2 SW Sec. 11 Twp. 32 Rge. 12 X East West

1320 Ft. North from Southeast Corner of Section

4950 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

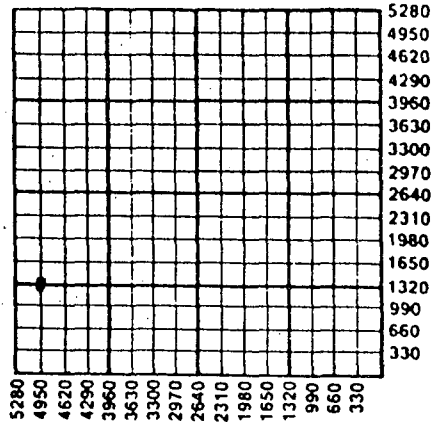
Lease Name Garten Well # 5

Field Name Bloom North

Producing Formation Mississippian

Elevation: Ground 1470' KB 1478'

Total Depth 4350' PBTD



Amount of Surface Pipe Set and Cemented at 483' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Operator: License # 5428

Name: Graves Drilling Co., Inc.

Address 8100 E. 22nd St. - Suite 800

City/State/Zip Wichita, KS 67226

Purchaser: Koch Oil Company

Operator Contact Person: John C. Graves

Phone (316) 687-2777

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SMD 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

03-28-90 4-3-90 4-13-90

Spud Date Date Reached TD Completion Date

APR 27 1990
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-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 Frederick W. Stumpf

Title Geologist Date 4-25-90

Subscribed and sworn to before me this 25th day of April, 19 90.

Notary Public Phyllis A. Freeman

Date Commission Expires 6-9-90

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

PHYLLIS A. FREEMAN
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 6-9-90
Form ACO-1 (7-89)

ORIGINAL

PI

ORIGINAL

SIDE TWO

Operator Name Graves Drilling Co., Inc. Lease Name Garten Well # 5
Sec. 11 Twp. 32 Rge. 12 East West
County Barber

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

Log Sample

Name	Top	Bottom
Heebner	3532'	-2054
Lansing	3709'	-2231
Mississippian	4268'	-2790
Total Depth	4351'	-2873

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#	483'	60/40poz	275	2% gel 3% cc.
Production	7-7/8"	4 1/2"		4348'	surfill	100	5# Gilsonite

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

2	4292-4294 and 4272-4282	500 gal 7 1/2% NE Frac w/39750# sand w/174 bbl. wtr.

TUBING RECORD

Size 2 3/8"

Set At 4319'

Packer At none

Liner Run

Yes No

Date of First Production

4-17-90

Producing Method

Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours

Oil 25 Bbls.

Gas 20 Mcf

Water 15 Bbls.

Gas-Oil Ratio 1-800

Gravity 33

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease
(If vented, submit ACO-18.)

Open Hole Perforation Dually Completed Commingled
 Other (Specify)

ORIGINAL



CUSTOMER

INVOICE D
03/28/90

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS: NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: B. J. SERVICES P.O. BOX 100906 HOUSTON, TX 77212
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PAGE 1	INVOICE NO. RE089
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GRAVES DRILLING CO. INC
P O BOX 8250
WICHITA KS 67208

AUTHORIZED BY 610650

PURCH. ORDER REF. NO.

WELL NUMBER : 5 CUSTOMER NUMBER : 05360000

LEASE NAME AND NUMBER GARTER	STATE 14	COUNTY/PARISH	CITY	DISTRICT NAME MEDICINE LODGE	DISTR. NO. 3350
JOB LOCATION/FIELD		MTA DISTRICT	DATE OF JOB 03/28/90	TYPE OF SERVICE LAND-CONDUCTOR/SURFACE	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100305	1.00	CEMENTING CASING 300 TO 1500 FT.	375.00		375.00
10100310	163.00	PLUS PER FOOT BELOW 300 FT.	0.42		68.46
10109005	8.00	MILEAGE CHRG, FROM NEAREST BASE OF	1.10		8.80
10410504	165.00	CLASS "A" CEMENT	5.30	CF	874.50
10415018	110.00	DIAMIX F	2.61	CF	287.10
10415049	709.00	A-7-P CALCIUM CHLORIDE PELLETS	0.32	LB	226.88
10420145	4.73	BJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CB	31.93
10940115	1.00	MIN. DRAYAGE CHRG	45.00		45.00
10880001	275.00	MIXING SEVICE CHRG DRY MATERIALS, P	0.95		261.25
10430539	1.00	8 5/8" TOP HOLE (SURFACE) PLUG	17.00	EA	17.00

RECEIVED
STATE CORPORATION COMMISSION
AUG - 3 1990
CONSERVATION DIVISION
Wichita, Kansas

SUBTOTAL 2,195.92
DISCOUNT 456.93

ACCOUNT	4.25000% STATE TAX 1.00000% COUNTY TAX	1138.31 1138.31	48.37 11.38
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RECEIVED
APR 10 1990

TAX EXEMPTION STATUS: PAY THIS AMOUNT 1,728.74



REMITTANCE ADVICE

INVOICE DATE
04/03/90

DIRECT BILLING INQUIRIES TO 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO B.J. SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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PAGE	INVOICE NO.
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GRAVES DRILLING CO INC
P O BOX 8250
WICHITA

KS 67208

AUTHORIZED BY
610702

PURCH ORDER REF. NO.

WELL NUMBER : 5

CUSTOMER NUMBER : 05360000

LEASE NAME AND NUMBER GARTEN	STATE 14	COUNTY/PARISH	CITY	DISTRICT NAME MEDICINE LODGE	DISTR NO 3350
JOB LOCATION/FIELD	MTA DISTRICT	DATE OF JOB 04/03/90	TYPE OF SERVICE LAND-LONG STRING/PRODUC		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100320	1.00	CEMENTING CASING 3001 TO 5000 FT.	879.00		879.00
10100325	13.50	PLUS PER 100 FT. BELOW 3000 FT.	9.80		132.30
10109005	8.00	MILEAGE CHRG, FROM NEAREST BASE OF	1.10		8.80
10410504	100.00	CLASS "A" CEMENT	5.30	CF	530.00
10428020	5.64	A-10 GYPSEAL	14.60	CW	82.34
10415049	94.00	A-7-P CALCIUM CHLORIDE PELLETS	0.32	LB	30.08
10420145	0.94	BJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CW	6.35
10415082	5.00	KOL SEAL	33.00	CW	165.00
10415038	3.00	A-5 SALT	7.00	CW	21.00
10425010	500.00	MUD-SWEEP, WITH BJ-TITAN PUMPING EQ	1.45	GL	725.00
10940115	1.00	MIN DRAYAGE CHRG	45.00		45.00
10880001	100.00	MIXING SEVICE CHRG DRY MATERIALS, P	0.95		95.00
10430508	1.00	4-1/2" TOP RUBBER PLUG	42.50	EA	42.50
10409600	1.00	4-1/2 REG. GUIDE SHOE B	104.00	GL	104.00
10409600	1.00	4-1/2 INSERT B	161.00	GL	161.00
10409600	4.00	4-1/2 CENTRALIZERS B	41.75	GL	167.00

CONSERVATION DIVISION
Wichita, Kansas

RECEIVED

APR 11 1990

TAX EXEMPTION STATUS:



REMITTANCE ADVICE

INVOICE DATE
04/03/90

DIRECT BILLING INQUIRIES TO	TERMS	REMIT TO
713-895-5821	NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	B.J. SERVICES P.O. BOX 100806 HOUSTON, TX 77212

PAGE	INVOICE NO.
2	RF151

GRAVES DRILLING CO INC
P O BOX 8250
WICHITA KS 67208

AUTHORIZED BY
610702

WELL NUMBER : 5

CUSTOMER NUMBER : 05360000

PURCH ORDER REF. NO.

LEASE NAME AND NUMBER	STATE	COUNTY/PARISH	CITY	DISTRICT NAME	DISTR NO
GARTEN	14			MEDICINE LODGE	3350
JOB LOCATION/FIELD		MTA DISTRICT	DATE OF JOB	TYPE OF SERVICE	
			04/03/90	LAND-LONG STRING/PRODUC	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10410504	15.00	CLASS "A" CEMENT	5.30	CF	79.50
10415018	10.00	DIAMIX F	2.61	CF	26.10
10880001	25.00	MIXING SEVICE CHRQ DRY MATERIALS, P	0.95		23.75
RECEIVED STATE CORPORATION COMMISSION AUG - 3 1990 CONSERVATION DIVISION Wichita, Kansas					
SUBTOTAL					3,323.72
DISCOUNT					712.17

ACCOUNT			
	4.25000% STATE TAX	1681.37	71.45
	1.00000% COUNTY TAX	1681.37	16.83

TAX EXEMPTION STATUS: PAY THIS AMOUNT 2,699.83

DAVIS GREAT GUNS LOGGING, INC.

No 61125

P.O. Box 20810
Wichita, Kansas 67208
316-687-5530

Date 4-02-90

Station G.B.

Unit No. 35

CHARGE TO: GRAVES DRILLING Co., Inc. 52900
 ADDRESS 8100 E. 22nd St P.O. Box 8250 Wichita, Ks, 67208-0250
 R/A SOURCE NO. 712AB488 CSVC2 CUSTOMER ORDER NO. _____
 LEASE AND WELL NO. GARTEN #5 FIELD _____
 NEAREST TOWN Medicine Lodge COUNTY Barber STATE KS
 SPOT LOCATION C-W 1/2 W 1/2 SEC. 11 TWP. 32s RANGE 12w
 ZERO 8' above GL CASING SIZE 8 7/8 @ 483 WEIGHT _____
 CUSTOMER'S T.D. 4350 GREAT GUNS T.D. 4351 FLUID LEVEL _____
 ENGINEER Bob Harrell OPERATOR Steve Courson - Cliff McCrary

PERFORATING						
Code Reference	Description	No. Shots	Depth From	To	Amount	
	1710-09	4351				
080490						

DEPTH AND OPERATIONS CHARGES						
Code Reference	Description	From	Depth To	Total No. Ft.	Price Per Ft.	Amount
6704-01	BCN Downhole	0	4351	4351	.32	1392 32
6704-02	BCN Uphole	4351	3200	1151	-	600 00
6705-01	BCD Downhole	0	4351	4351	.29	1261 79
6705-02	BCD Uphole	4351	3200	1151	-	540 00
6710-01	DILG Downhole	0	4351	4351	.33	1435 83
6710-02	DILG Uphole	4351	3200	1151	-	620 00
6710-03	SILN Uphole	2351	440	1911	.24	458 64

MISCELLANEOUS			
Code Reference	Description	Quantity	Amount
5000	Service Charge		600 00
RECEIVED RECEIVED NET DUE 30 DAYS AUG - 3 1990 APR 9 1990 ORIGINAL INVOICE CONSERVATION DIVISION Wichita, Kansas			

PRICES SUBJECT TO CORRECTION BY BILLING DEPARTMENT

RECEIVED THE ABOVE SERVICES ACCORDING TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE TO WHICH WE HEREBY AGREE

Wendell W. Shroy 4-2-90
Customer Signature Date

Sub Total	2782 00
Tool Insurance	
Tax	
Net Price	2782 00

DAVIS GREAT GUNS LOGGING, INC.

No 61262

RECEIVED

P.O. Box 20810
Wichita, Kansas 67208
316-687-5530

Date 4-9-90

Station GB

Unit No. 73

APR 16 1990

CHARGE TO: Graves Drilling Co. INC 52900
 ADDRESS: P.O. Box 8250 WICHITA, KS 67208
 R/A SOURCE NO. _____ CUSTOMER ORDER NO. _____
 LEASE AND WELL NO. GARTEN #5 FIELD _____
 NEAREST TOWN _____ COUNTY BARBER STATE KANSAS
 SPOT LOCATION C w/2 - w/2 SEC. 11 TWP. 32S RANGE 12w
 ZERO 8 ABL CASING SIZE 4 1/2 WEIGHT _____
 CUSTOMER'S T.D. 4350 GREAT GUNS T.D. 4322 FLUID LEVEL Full
 ENGINEER Tracy Gutierrez OPERATOR Ty HAZEN

PERFORATING					
Code Reference	Description	No. Shots	From	Depth To	Amount
3100.03	3 3/8 EXP 2'-2"	4	4292	4294	
3100.03	3 3/8 EXP 10'-2"	20	4272	4282	
					2172 00
	1740-08 # 1149.46				
	Perf				

DEPTH AND OPERATIONS CHARGES						
Code Reference	Description	From	Depth To	Total No. Ft.	Price Per Ft.	Amount
2600.04	Depth Charge (CBL)	0	4322	4322	.20	864 40
	Logging Charge (CBL)	4318	3500	min		300 00
2600.09	Depth ch	0	4322	4322	.10	432 20
	Operation ch	4322	3500	min		120 00
	Logging					
	1740-09 # 1149.45					

MISCELLANEOUS			
Code Reference	Description	Quantity	Amount
1000.04	Service Charge		375 00
	NET DUE 30 DAYS		
	ORIGINAL INVOICE		
	090490		

PRICES SUBJECT TO CORRECTION BY BILLING DEPARTMENT

RECEIVED THE ABOVE SERVICES ACCORDING TO THE TERMS AND CONDITIONS SPECIFIED ON THE REVERSE SIDE TO WHICH WE HEREBY AGREE

D.R. Miller
Customer Signature Date 4/9/90

Sub Total	2298 91
Code Ref.	
Tool Insurance	
Tax	
Net Price	2298 91