

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

Purchaser: _____

Operator Contact Person: Fred Stump

Phone (316) 687-2777

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

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 OWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

05-28-91 06-05-91 6-5-91

Spud Date Date Reached TD Completion Date

API NO. 15- 095-21,646

County Kingman

NW NW NE Sec. 12 Twp. 28 Rge. 5 East West

4950 Ft. North from Southeast Corner of Section

2310 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

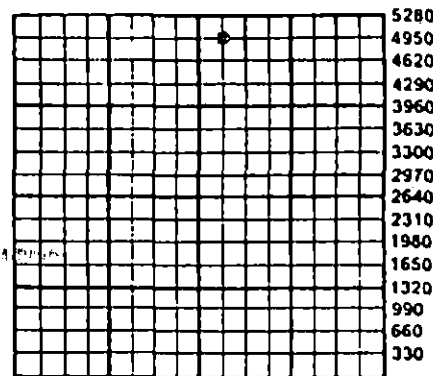
Lease Name Jones Well # 1

Field Name Wildcat

Producing Formation _____

Elevation: Ground 1405 KB 1413

Total Depth 3870 PBDT _____



RECEIVED
STATE CORPORATION COMMISSION
6-18-91
18 1991

CONSERVATION DIVISION
Wichita, Kansas

Amount of Surface Pipe Set and Cemented at 267' 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.

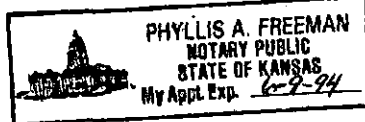
Signature Fred Stump

Title Geologist Date 6-17-91

Subscribed and sworn to before me this 17th day of June, 19 91.

Notary Public Phyllis A. Freeman

Date Commission Expires June 9, 1994



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)

SIDE TWO

Operator Name Graves Drilling Co., Inc. Lease Name Jones Well # 1
 Sec. 12 Twp. 28 Rge. 5 East County Kingman
 West

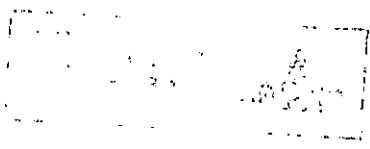
INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, 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 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		
Name	Top	Bottom
Brown Lime	2870	(-1457)
Kansas City	3132	(-1719)
Cherokee Shale	3614	(-2201)
Mississippian	3751	(-2338)
Total Depth	3870	(-2457)

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 1/2"	8-5/8"	20#	267'	60/40poz	180	2% gel 3% c
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)						
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 Perforation Dually Completed Commingled
 Other (Specify) _____
 Production Interval _____



ORIGINAL

DRILLER'S WELL LOG

DATE COMMENCED: May 28, 1991
DATE COMPLETED: June 5, 1991

Graves Drilling Co., Inc.
JONES #1
NW NW NE
Sec. 12, T28S, R5W
Kingman County, Ks.

0 - 110' Surface Soil, Sand, Clay
110 - 268' Shale
268 - 686' Clay & Shale
686 - 1006' Shale
1006 - 1282' Shale w/Lime streaks
1282 - 1551' Shale & Lime
1551 - 3418' Lime & Shale
3418 - 3770' Lime
3770 - 3870' Chert & Lime
3870' RTD

ELEVATION: 1413' K.B.

Surface pipe: Set new
8-5/8", 20# @ 267' w/180
sacks 60/40 pozmix 2% gel
3% cc.

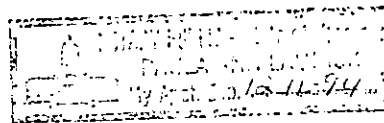
A F F I D A V I T

STATE OF KANSAS
COUNTY OF BARTON) ss

John Armbruster of lawful age does swear and state that the facts
and statements herein are true and correct to the best of his knowledge.

John Armbruster

Subscribed and sworn to before me this 10th day of June 1991.



Franklin W. ...
Notary Public

Graves DRILLING CO. INC.

800 TALLGRASS EXEC. PARK 8100 E. 22ND ST. P.O. BOX 8250
 TEL: 316-687-2777 WICHITA, KANSAS 67208-0250 FAX: 316-687-2125

DAILY DRILLING REPORT

LEASE: JONES #1 LOCATION: NW NW NE Sec. 12-28S-5W COUNTY: Kingman
 CONTRACTOR: Duke Drilling ELEVATION: K.B. 1413 D.F. G.L. 1405'
 MOVED RIG IN: 5-28-91 SPUDED: 1:30 p.m. HOLE SIZE: 12 1/4"
 8-5/8" SURFACE CASING SET AT: 267' SACKS OF CEMENT: 185 sx 60/40 Poz, 2% gel
 PLUG DOWN AT: 6:00 pm DID CEMENT CIRCULATE: yes DRILLED PLUG AT:

<u>DATE</u>	<u>TIME</u>	<u>DRILLING DEPTH</u>	<u>REMARKS</u>
<u>5-28-91</u>	<u>A.M.</u>	<u> </u>	<u>MIRT</u>
<u>5-28-91</u>	<u>1:30 pm</u>	<u>268'</u>	<u>Set 6 jts. of new 20# 8 5/8" w/ 185 sx 60/40 Poz mix, 2% gel, 3% accelerator plug down at 6:00 pm</u>
<u>5-29-91</u>	<u>1:30 am</u> <u>7:00 am</u>	<u>686'</u>	<u>Drilled under surface at 1:30 am. Drilling ahead.</u>
<u>5-30-91</u>	<u>7:00 am</u>	<u>1551'</u>	<u>Straight Hole @768', 911' & 1428' all 3/4 degree</u>
<u>5-31-91</u>	<u>7:00 am</u>	<u>2437'</u>	<u>Straight Hole @1890' -0- degree, drilling ahead. Straight Hole @2384' 3/4 degree</u>
<u>6-1-91</u>	<u>7:00 am</u>	<u>3102'</u>	<u>Straight Hole 2873' & 3272' 3/4 degree, drilling.</u>
<u>6-2-91</u>	<u>7:00 am</u>	<u>3418'</u>	<u>Drilling ahead.</u>
<u>6-3-91</u>	<u>7:00 am</u> <u> pm</u>	<u>3800'</u>	<u>Coming out for DST #1 3770'-3800'. DST #1 3770-3800 30-45-60-60 GTS 20"/2nd open 12.5 MCFG, 120' G& OCM, 60' G&OCWM, 60' G&OCMW, IFP 107-107, FFP 139-139, ISIP804/45, FSIP 857/60, still bldg</u>
<u>6-4-91</u>	<u>8:00 am</u> <u> pm</u>	<u>3864'</u>	<u>DST #2 3803-3817 30-45-60-60 G/50 2nd open 14.1 MCFG, 121' GCM, no show, no wtr., IFP 53-53, FFP 53-53, ISIP 1016/45", FSIP 1069/60" Prepare to drill to TD 3870 and run E. Log.</u>
	<u> pm</u>	<u>3870' T.D.</u>	<u>D & A plugged with 35 sx 800', 60 sx 350', 25sx 60', 10 sx RH, 10 sx MH, plug 4:45 a.m. 6-5-91</u>

SAMPLE TOPS:

<u>Brown Lansing</u>	<u>2870'</u>	<u>-1457'</u>
<u>Lansing</u>	<u>2912'</u>	<u>-1499'</u>
<u>Ks City</u>	<u>3132'</u>	<u>-1719'</u>
<u>Stark</u>	<u>3309'</u>	<u>-1896'</u>
<u>Bs KS City</u>	<u>3381'</u>	<u>-1968'</u>
<u>Cherokee</u>	<u>3614'</u>	<u>-2201'</u>
<u>Mississippian</u>	<u>3751'</u>	<u>-2338'</u>

LOG TOPS:

<u>Mississippian</u>	<u>3746'</u>
<u>T.D.</u>	<u>3864'</u>

RECEIVED
 STATE CORPORATION COMMISSION

JUN 24 1991

CONSULTING DIVISION
 Wichita, Kansas



ORIGINAL

CUSTOMER INVOICE DATE 05/28/91

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 297476 HOUSTON, TX 77297
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PAGE 1	INVOICE NO. 648623
AUTHORIZED BY 648623	
PURCH. ORDER REF. NO.	

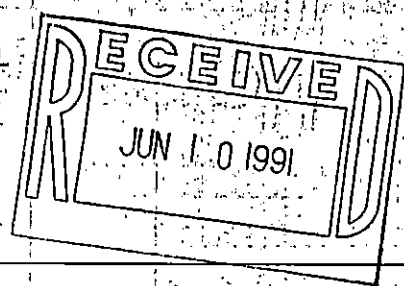
GRAVES DRILLING CO INC
P O BOX 8250
WICHITA KS 67208

WELL NUMBER : 1 CUSTOMER NUMBER : 5360 - 0

LEASE NAME AND NUMBER JONES	STATE 14	COUNTY/PARISH 1407	CITY Medicine Lodge	DISTRICT NAME 584	DISTR. NO.
JOB LOCATION/FIELD NA	MTA DISTRICT		DATE OF JOB 05/28/91	TYPE OF SERVICE LAND-CONDUCTOR/SURFACE	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100302	1.00	CEMENT CASING 0 TO 300 FEET	440.00		440.00
10109005	55.00	MILEAGE CHRG. FROM NEAREST BASE OF	2.35		129.25
10410504	111.00	CLASS "A" CEMENT	5.50	QT	610.50
10415018	74.00	FLY ASH	2.91	CFI	215.34
10415049	477.00	A-7-P CALCIUM CHLORIDE PELLETS	0.46	LB	219.42
10420145	318.00	BJ-TITAN GEL, BENTONITE, BULK SALE	0.14	LB	44.52
10430539	1.00	8 5/8" TOP HOLE (SURFACE) PLUG	17.00	EA	17.00
10880001	198.00	MIXING SERVICE CHRG DRY MATERIALS	1.10		217.80
10940101	462.00	DRAYAGE, PER TON MILE	0.75		346.50
SUBTOTAL					2,240.33
DISCOUNT					403.26

JUN 18 1991
CONSERVATION DIVISION
Wichita, Kansas



ACCOUNT	1.0000% BARBER	907.56	9.09
	4.2500% KS-NEW WELL	907.56	38.57

TAX EXEMPTION STATUS: PAY THIS AMOUNT 1,884.73

5304 112029



ORIGINAL

CUSTOMER

INVOICE DATE
06/05/91

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS: NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: D.J. SERVICES P.O. BOX 297476 HOUSTON, TX 77297
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PAGE	INVOICE NO.
1	648598

AUTHORIZED BY
648598

PURCH. ORDER REF. NO.

GRAVES DRILLING CO INC

P O BOX 8250
WICHITA KS 67208

STATE COMMISSION

JUN 18 1991

Wichita, Kansas

WELL NUMBER : 1 CUSTOMER NUMBER : 5369 - 0

LEASE NAME AND NUMBER	STATE	COUNTY/PARISH	CITY	DISTRICT NAME	DISTR. NO.
JONES	14	1407		Medicine Lodge	584
JOB LOCATION/FIELD		MTA DISTRICT	DATE OF JOB	TYPE OF SERVICE	
NA			06/05/91	LAND-PLUG AND ABANDON	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10102106	1.00	CEMENTING THRU TUBING 501 TO 1,000	674.00		674.00
10109005	55.00	MILEAGE CHRG. FROM NEAREST BASE OF	2.45		134.75
10410504	84.00	CLASS "A" CEMENT	5.79	CF	486.36
10415018	55.00	FLY ASH	3.06	CFT	171.36
10420143	481.00	BJ-TITAN GEL, BENTONITE, BULK SALE	0.15	LB	72.15
10430539	1.00	8 5/8" TOP HOLE (SURFACE) PLUG	17.00	EA	17.00
10880001	148.00	MIXING SERVICE CHRG DRY MATERIALS,	1.16		171.68
10940101	347.00	DRAYAGE, PER TON MILE	0.79		274.13
SUBTOTAL					2,001.43
DISCOUNT					360.24

ACCOUNT	1.0000% BARBER 4.2500% KS-NEW WELL	RECEIVED JUN 17 1991	612.44 612.44	6.13 26.02
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TAX EXEMPTION STATUS:	PAY THIS AMOUNT	1,673.34
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5304 112029