

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

Operator: License # 5428  
Name Graves Drilling Co., Inc.  
Address 151 N. Main, Suite 850  
City/State/Zip Wichita, KS 67223

Purchaser.....

Operator Contact Person Karen L. Seiler  
Phone 316-265-7233

Contractor: License # 5929  
Name Duke Drilling Co., Inc.

Wellsite Geologist Arden Ratzlaff  
Phone 262-8938

Designate Type of Completion

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

If OWWO: old well info as follows:

Operator .....  
Well Name .....  
Comp. Date ..... Old Total Depth.....

WELL HISTORY

Drilling Method:

Mud Rotary  Air Rotary  Cable

8-1-87 8-9-87 8-9-87  
Spud Date Date Reached TD Completion Date

3867'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 244 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated from.....feet depth to.....w/.....SX cmt  
Cement Company Name .....  
Invoice # .....

API NO. 15-095-21,572-0000  
County Kingman  
S/2 N/2 SE 17 28 5 East  
XX West

1650 Ft North from Southeast Corner of Section  
1320 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

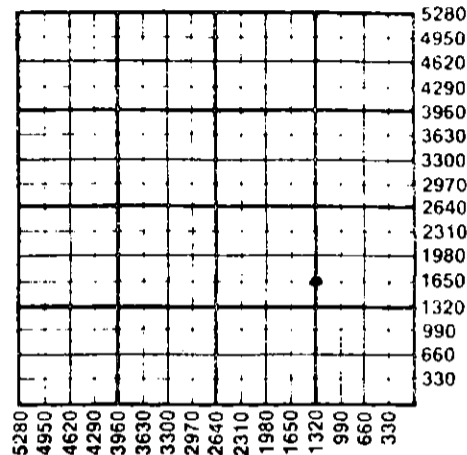
Lease Name Ralph Well # 2

Field Name.....

Producing Formation.....

Elevation: Ground 1391 KB 1396

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket # .....  Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit #.....

Groundwater.....Ft North from Southeast Corner  
(Well) .....Ft West from Southeast Corner of  
Sec Twp Rge East West

Surface Water 1650 Ft North from Southeast Corner  
(Stream, pond etc) 1980 Ft West from Southeast Corner  
Sec Twp Rge East West

Other (explain).....  
(purchased from city, R.W.D. #)

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. Submit QP-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 *Karen L. Seiler*  
Title Land Secretary Date 8-27-87

Subscribed and sworn to before me this 27th day of August 1987  
Notary Public *Tricia K. Glidewell* Tricia K. Glidewell

Date Commission Expires 3-16-90



K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C Wireline Log Received  
C Drillers Time Log Received  
Distribution  
KCC SWD/Rep NGPA  
KGSB Plug Other  
CORPORATION COMMISSION (Specify)  
SEP 10 1987  
9-16-87

Sec. 17 Twp. 28 Rge. 5 E

SIDE TWO

Operator Name Graves Drilling Co. Inc. Lease Name Ralph Well # 2

Sec. 17 Twp. 28 Rge. 5  East  West County Kingman

WELL LOG

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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

DST #1 - 3801-3822, OP30, SI45, OP60, SI45, GTS/32" gauged 8,560 CFG. Rec 60' SGCM. IFP 47-47#, FFP 57-57#, ISIP & FSIP 854-825#. BHT 116°.  
 DST #2 - 3836-3849, OP30, SI45, OP60, SI45, GTS 15" on FSI. Rec 50' GCM, 60' GCMW w/OS, 60' GCWM (cl=45,000 PPM). IFP 57-66#, FFP 85-95#, ISIP & FSIP 718-583#. BHT 119°.  
 DST #3 - 3849-3867, OP30, SI45, OP60, SI45, weak to strong blow. Rec 1050' GIP, 124' SOGCM. IFP 57-57#, FFP 66-66#. ISIP & FSIP 835-728#. BHT 120°.

Name	Top	Bottom
Heebner	2722	(-1323)
Brown Lime	2958	(-1559)
Lansing	2994	(-1595)
Stark	3375	(-1976)
B/Kansas City	3452	(-2053)
Mississippian	3801	(-2402)
RTD	3867	(-2468)

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"	28#	244'	60/40 poz	180	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				Size	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
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	Gas	Water	Gas-Oil Ratio		Gravity	
	Bbls	MCF	Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify).....  
 Used on Lease  Dually Completed  Commingled

DRILLER'S WELL LOG

15059-21572-0000

DATE COMMENCED: August 1, 1987  
 DATE COMPLETED: August 9, 1987

Graves Drilling Co., Inc.  
 RALPH #2  
 S/2 N/2 SE  
 Sec. 17, T28S, R5W  
 Kingman County, Ks.

0 - 2722' Surface Soil, shale, Lime,  
 2722 - 2994' Shale & Lime  
 2944 - 3452' Lime  
 3452 - 3638' Shale & Lime  
 3638 - 3801' Sand  
 3801 - 3867' Chert & Lime  
 3867' RTD

ELEVATION:

Formation Data

Heebner	2722'
Lansing	2994'
Base K.C.	3452'
Cherokee	3638'
Mississippi	3801'
RTD	3867'

Surface Pipe: Set used  
 8-5/8", 28# pipe @244'  
 w/180 sacks 60/40 pozmix  
 2% gel 3% cc.

Back in hole, 8-11-87, drilled  
 out top plug 0-40', ten cemented  
 with 35 sacks cement at 300',  
 then circ. 10 sks. cement from 40'  
 to top.

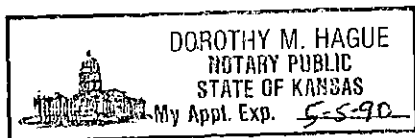
A F F I D A V I T

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 14 day of August 1987.



*Dorothy M. Hague*  
 Notary Public

RECEIVED  
 STATE COMMISSION

SEP 16 1987

REGISTRATION DIVISION  
 Wichita, Kansas