

31-11221

Pub

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 # 03074
Name Robert S. Harwell
Address 2801 NW Expressway Suite 132
City/State/Zip Oklahoma City, OK 73112

Purchaser Enron

Operator Contact Person Robert Harwell
Phone 405-842-4088

Contractor: License # 5335
Name Hawkeye Drilling

Wellsite Geologist DABA
Phone DABA

Designate Type of Completion
 New Well Re-Entry Workover

Oil Gas Dry
 SWD Inj Other (Core, Water Supply etc.)
 Temp Abd Delayed Comp.

If ONWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

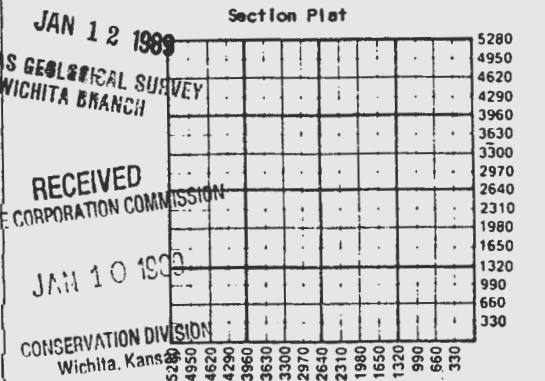
WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
10-26-88 10-29-88 1-08-89
Spud Date Date Reached TD Completion Date
980
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 20 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set
If alternate 2 completion, cement circulated from feet depth to w/SX cmt
Cement Company Name
Invoice #

API NO. 15-091,22,030
County Johnson
NW NE NE NE Sec. 31 Twp. 14 Rge. 22
3685 Ft North from Southeast Corner of Section
1155 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Knabe Well # 2
Field Name Wildcat
Producing Formation Bartlesville
Elevation: Ground n/a KB



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 Ft North from Southeast Corner (Stream, pond etc) 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 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 Robert S. Harwell
Title Operator Date 12/23/88

Subscribed and sworn to before me this 9 day of January 1989
Notary Public Diana L. Wade
Date Commission Expires 7-9-91

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
KGS Plug Other (Specify)

Sec. 31, Twp. 14, Rge. 22E

Operator Name Robert S. Harwell Lease Name Knabe Well # 2

Sec. 31 Twp. 14 Rge. 22 East West County Johnson

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

						Name	Top	Bottom
0	188	Clay	294	299	Lime	452	456	Shale
18	22	Lime	299	300	Shale	456	606	Lime
22	105	Shale	300	303	Lime	606	610	Shale
105	108	Lime	303	322	Shale	610	628	Lime
108	111	Shale	322	330	Lime	628	634	Shale
111	127	Lime	330	334	Shale	634	636	Lime
127	135	Black shale	334	340	Lime	636	638	Shale
135	144	Lime	340	373	Shale	638	646	Lime
144	150	Shale	373	376	Lime	646	652	Shale
150	160	Lime	376	385	Shale	652	669	Lime
160	182	Shale	385	409	Lime	669	673	Shale
182	195	Lime	409	412	Shale	673	683	Shale
195	201	Shale	412	435	Lime	683	685	Lime
201	210	Lime	435	439	Shale	685	695	Shale
210	225	Shale	439	444	Lime	695	697	Lime
225	228	LIME	444	448	Shale	697	700	Shale
228	254	Shale	448	450	Lime	700	704	Lime
254	279	Lime	448	450	Shale	704	760	Shale
279	294	Shale	450	452	Lime	760	762	Lime

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 casing	6.5/8	6.1/4		20	portland	5	
production		2 7/8					
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
Shots Per Foot	Specify Footage of Each Interval Perforated						
3	906-913			60 lbs. oil frac		40 sk. sand	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Producing Method					
1-08-89		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	STATE	RECEIVED CORPORATION COMMISSION	Gas-Oil Ratio	Gravity
5		Bbls	MCF	0	JAN 10 1989	22	CFPB

METHOD OF COMPLETION Open Hole Perforation Other (Specify)

Disposition of gas: Vented Sold Used on Lease

Production Interval 906-913

Dually Completed Commingled

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 CORPORATION COMMISSION
 JAN 10 1989

ROBERT S. HARWELL
2801 N.W. EXPRESSWAY, SUITE 132
OKLAHOMA CITY, OK 73112
(405) 842-4088

31-14-22E

DRILLER'S LOG CONTINUED

Knabe # 2

762	794	Shale	
794	804	Lime	
804	810	Shale	
810	812	Lime	
812	844	Shale	
844	845	Lime	
845	849	Shale	
849	860	Shale	
860	862	Lime	
862	904	Shale	
904	905	Lime	
905	910	Sand	Core point
910	980	Shale	TD

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NOV 10 1989

OBSERVATION DIVISION
Wichita, Kansas

HAWKEYE DRILLING

R.R. 2 Box 73A
Wellsville, Kansas 66092
913-683-2013

957.10

Lease KNABE
Well # #2 10-29-88
Elevation 15-091-22,030

1 2 3 4 5 6 7 8 9 10
III III III III III III III III III III
Drill Log

Thickness	Formation	Total Depth	Remarks	Thickness	Formation	Total Depth	Remarks
18	Clay	18		10	Shale	683	
4	lime	22		2	lime	685	
83	Shale	105		15	Shale	695	
3	lime	108		2	lime	697	
3	Shale	111		3	Shale	700	
16	lime	127		4	lime	704	
8	Shale	135		56	Shale	760	712' u.s
9	lime	144		2	lime	762	
6	Shale	150		32	Shale	794	
10	lime	160		10	lime	804	
22	Shale	182		6	Shale	810	
13	lime	195		2	lime	812	
6	Shale	201		32	Shale	844	
9	lime	210		1	lime	845	
15	Shale	225		4	Shale	849	Gray G
2	lime	227		11	Shale	860	
26	Shale	253		2	lime	862	
25	lime	278		42	Shale	904	
15	Shale	293			lime	905	
6	lime	299			SAND		
1	Shale	300		.09		906	
3	lime	303		.10		907	
19	Shale	322		.18		908	
8	lime	330		.14		909	
4	Shale	334		.11		910	
6	lime	340		.19		911	
33	Shale	373		.08		912	
2	lime	375		.27		913	
9	Shale	385		.25		914	
24	lime	409		.41		915	
3	Shale	412		2.03	PRISON	916	
22	lime	435		2.10	"	917	
4	Shale	439		2.12	"	918	
5	lime	444		2.24	"	919	
4	Shale	448		3.31	"	920	
2	lime	450		60	Shale	980 TO	
2	Shale	452					
5	lime	457					
16	Shale	473					
4	lime	477					
16	Shale	493					
5	lime	498					
2	Shale	500					
2	lime	502					
8	Shale	510					
6	lime	516					
17	Shale	533					
4	lime	537					

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CONSERVATION DIVISION
Wichita, Kansas

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

31-14-55E