

ORIGINAL

SIDE ONE

COPY

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 #132
City/State/Zip Oklahoma City, OK 73112

Purchaser N/A

Operator Contact Person Robert S. Harwell
Phone 405 842-4088

Contractor: License # 5335
Name Hawkeye Drilling

Wellsite Geologist none
Phone none

Designate Type of Completion
☒ New Well ☐ Re-Entry ☐ Workover

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

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

WELL HISTORY

Drilling Method:
☒ Mud Rotary ☐ Air Rotary ☐ Cable

1-24-90 1-28-90 2/1/90
Spud Date Date Reached TD Completion Date
940
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 feet
If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt
Cement Company Name
Invoice #

API NO. 15-09122-164

County Johnson

NE SE E/2 NE Sec 31 Twp 14 Rge 22 East West

3465 3465 FSL 453 FEL
Ft North from Southeast Corner of Section
385 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

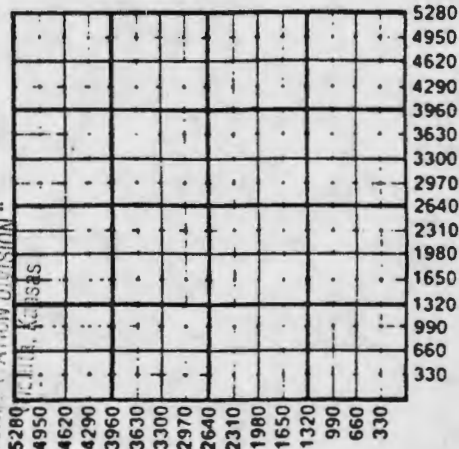
Lease Name Knabe Well # 2A

Field Name Longanecker SE

INJECTION
Formation Bartlesville

Elevation: Ground n/a KB n/a

Section Plat



ALT 2 JH
8/21/00

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 2-10-90

Subscribed and sworn to before me this 14 day of Feb 1990

Notary Public Teresa G. Longstreet

Date Commission Expires July 10, 1991

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

ORIGINAL

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

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

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

Base of Kansas City 420
Squirrel Sand 684-692
Bartlesville Sand 873-892
TD 937

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	6.5/8	6.1/4		20 ft.	portland	5 sacks	
Production		2.7/8		938 ft.	portland	138 sacks	
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
Shots Per Foot	Specify Footage of Each Interval Perforated						
2	874-888			acid spot and breakdown w/ 250 gallons			
TUBING RECORD				Liner Run ☐ Yes ☒ No			
Size		Set At		Packer at			
none							
Date of First Production		Producing Method ☐ Flowing ☐ Pumping ☒ Gas Lift ☐ Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio		Gravity
INJECTION WELL							
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented
☐ Sold
☐ Used on Lease

☐ Open Hole ☒ Perforation
☐ Other (Specify)

874-888

☐ Dually Completed
☐ Commingled

.....

COBY

HAWKEYE DRILLING

R.R. 2 Box 73A
Wellsville, Kansas 66092
913-883-2013

COPY
ORIGINAL

ease

Knabe

1 2 3 4 5 6 7 8 9 10 11

Well #

2-A 1-31-90

Drill Log

Elevation

15091-22,164

Thickness	Formation	Total Depth	Remarks	Thickness	Formation	Total Depth	Remarks
10	Clay	10		76	Shale	719	
6	lime	37		2	lime	721	
74	Shale	46		21	Shale	742	
4	lime	70		3	lime	745	
2	Shale	72		20	Shale	765	
16	lime	88		2	lime	767	
9	Shale	97		38	Shale	805	
8	lime	105		1	lime	806	
7	Shale	112		40	Shale	846	
13	lime	125		1	lime	847	
22	Shale	147		9	Shale	856	
13	lime	160		1	lime	857	
6	Shale	166		13	Shale	870	
9	lime	175		1	lime	871	
15	Shale	190			SAND		
3	lime	193		26		872	
26	Shale	219		21		873	
27	lime	246		15		874	
15	Shale	261		19		875	
5	lime	266		21		876	
1	Shale	267		17		877	
3	lime	270		19		878	
19	Shale	289		21		879	
8	lime	297		21		880	
4	Shale	301		29		881	
6	lime	307		34		882	
33	Shale	340		30		883	
3	lime	343		39		884	
9	Shale	352		31		885	
24	lime	376		31		886	
3	Shale	379		31		887	
23	lime	402		31		888	
5	Shale	407		30		889	
7	lime	414		28		890	
6	Shale	420		39		891	
8	lime	428		4	SAND	895	
165	Shale	593		1	Shale	896	
4	lime	597		5	SAND	901	
2	Shale	599		39	Shale	940 TD	
2	lime	602					
21	Shale	623					
2	lime	625					
8	Shale	633					
2	lime	635					
27	Shale	662					
3	lime	665					
5	Shale	670					
3	lime	673					

RECEIVED

STATE CORP.

FEB 15 1990

CONSERVATION DIVISION
WILLIAM, KANSAS