

John

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SIDE ONE

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

Operator: License # 03074
Name: Robert S. Harwell
Address 2810 NW Expressway
#132
City/State/Zip Oklahoma City, OK
73112

Purchaser: _____
Operator Contact Person: Robert S. Harwell
Phone (405) 842-4088

Contractor: Name: Hawkeye Drilling
License: 5335 STATE OF _____

Wellsite Geologist: none MAR 25 1991

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

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

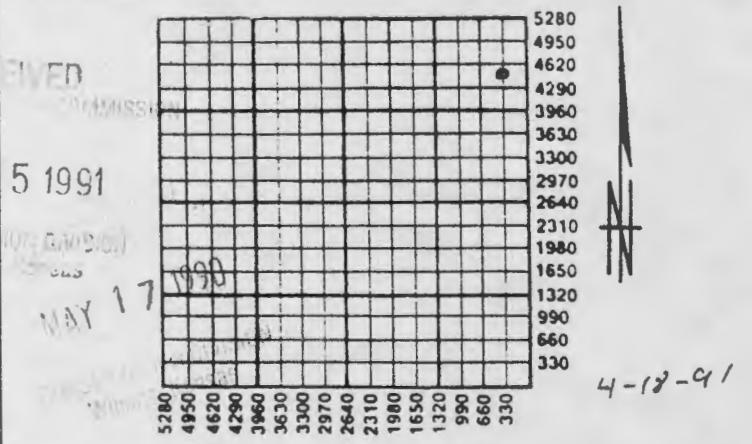
Drilling Method:
☒ Mud Rotary ☐ Air Rotary ☐ Cable
2-17-90 3-5-90
Spud Date Date Reached TD Completion Date

API NO. 15- 091-22,176
County Johnson
SE NE NE Sec. 31 Twp. 14S Rge. 22 ☒ East ☐ West
4275 4345 FSL Ft. North from Southeast Corner of Section

348 FEL ~~2001~~ Ft. West from Southeast Corner of Section
KCC records (NOTE: Locate well in section plat below.)

Lease Name Knabe Well # 4A
Field Name Longanecker SE

Producing Formation Bartlesville
Elevation: Ground n/a KB n/a
Total Depth 940 PBDT _____



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 II completion, cement circulated from 935
feet depth to 0 w/ 136 sx cm.

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-41 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 Robert S. Harwell
Title Owner-Operator Date 5-15-90

Subscribed and sworn to before me this 15 day of May, 90.
Notary Public Teresa A. Longstreath
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	☐ NGPA
☐ KGS	☐ Plug	☐ Other (Specify)

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SIDE TWO

Operator Name Robert S. Harwell Lease Name Knabe Well # 4A
 Sec. 31 Twp. 14 Rge. 22 ☒ East ☐ West
 County Johnson

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

Base of Kansas City Lime 422
 Squirrel Sand 690-700
 Bartlesville Sand 880-900
 TD 940

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	5 1/4	6 1/4		20	portland	6 sacks	
production		2 7/8		935	portland	136 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	880-884 887-897	acid spot and breakdown with 250 gallons 15% acid
	WAITING ON KCC APPROVAL FOR INJECTION	

TUBING RECORD

Size Set At Packer At

Liner Run ☐ Yes ☐ No

Date of First Production Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented ☐ Sold ☐ Used on Lease
 (If vented, submit ACO-18990)

☐ Open Hole ☐ Perforation ☐ Dually Completed ☐ Commingled
☐ Other (Specify) _____

MAY 17 1990
 CONSERVATION DIVISION
 W-1111-10-575

HAWKEYE DRILLING

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

31-14-22E

933 ft.

COPY

Drill Log

ease Knabe
Well # 4-A 2-28-90
Elevation 15-091-22, 176

1 2 3 4 5 6 7 8 9 10 11
MAY MAY MAY MAY MAY MAY MAY MAY MAY MAY

Thickness	Formation	Total Depth	Remarks	Thickness	Formation	Total Depth	Remarks
17	Clay	17		21	Shale	75	
5	lime	22		3	lime	78	
42	Shale	65		20	Shale	98	
20	lime	85		2	lime	100	
9	Shale	94		38	Shale	138	
9	lime	103		1	lime	139	
8	Shale	111		53	Shale	192	
13	lime	124		1	lime	193	
21	Shale	145		7	Shale	200	
14	lime	159		1	lime	201	
6	Shale	165			SAND		
9	lime	174		.19		201	
15	Shale	189		.31		201.31	
3	lime	192		1.08		202.39	
28	Shale	220		.34		202.73	
26	lime	246		.28		203.01	
15	Shale	261		.19		203.20	
5	lime	266		.19		203.39	
1	Shale	267		.19		203.58	
3	lime	270		.24		203.82	
19	Shale	289		.31		204.13	
8	lime	297		.41		204.54	
4	Shale	301		.39		204.93	
6	lime	307		.39		205.32	
33	Shale	340		.44		205.76	
3	lime	343		.59		206.35	
9	Shale	352		.54		206.89	
24	lime	376		1.04		207.93	
3	Shale	379		2.44		210.37	
23	lime	402		3.01		213.38	
5	Shale	407		3.11		216.49	
7	lime	414		3.40	SAND	219.89	
6	Shale	420		40	Shale	224.29	
8	lime	428					
168	Shale	596					
4	lime	600					
15	Shale	615					
3	lime	618					
21	Shale	639					
2	lime	641					
8	Shale	649					
2	lime	651					
27	Shale	678					
3	lime	681					
5	Shale	686					
3	lime	689					
46	Shale	735					
2	lime	737					

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