

KANSAS DRILLERS LOG

S. 14 T. 32S R. 2 ~~XX~~X  
 W  
 Loc. APP NE SE SW  
 County Summer

API No. 15 — 191 — 20,555  
 County Number

Operator  
 Beren Corporation

Address  
 970 Fourth Financial Center, Wichita, Kansas 67202

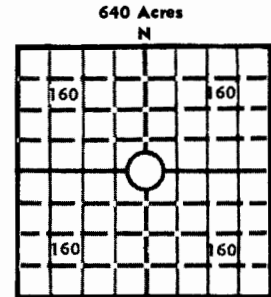
Well No. 16 Lease Name Gassaway "A"

Footage Location  
 880 feet from (N) (S) line 330 feet from (E) (W) line SW/4

Principal Contractor White & Ellis Drilling, Inc. Geologist Gerald Becker

Spud Date January 25, 1976 Total Depth 2811 P.B.T.D. 2806

Date Completed February 4, 1976 Oil Purchaser Continental Oil Company



640 Acres  
 N  
 Locate well correctly  
 Elev.: Gr. 1174  
 DF 1177 KB 1179

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Socks	Type and percent additives
Surface	12 1/2"	8-5/8		279'	Common	190	3% CC
Production	7-7/8"	5 1/2"	14#	2810	regular	200	18% salt

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Socks cement	Shots per ft.	Size & type	Depth interval
			4	DP JET	2372 - 77 & 2386 - 96

Size	Setting depth	Packer set at
2 1/2"	2805	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
300 gal regular acid, 7500# sand, 8200 gal Gel KCL water	2372 - 96

INITIAL PRODUCTION

Date of first production June 5, 1976	Producing method (flowing, pumping, gas lift, etc.) Pumping
RATE OF PRODUCTION PER 24 HOURS Oil 39 bbls.	Gas ----- MCF 240 bbls.
Water ----- CFPB	Gas-oil ratio -----
Disposition of gas (vented, used on lease or sold)	Producing interval (s) 2372 - 77 & 2386 - 96

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator Beren Corporation		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil	
Well No. 16	Lease Name Gassaway "A"		
S 14 T 32S R 2 <sup>XX</sup> W			
<b>WELL LOG</b>		SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.	
Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.			
FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME
DEPTH			
#1 1038 - 1055 (Indian Cave) 30/45/90/60 Weak to fair blow Rec. 35' oil + 100' OCM (.61 bbls) 326/306 10/20 30/59 gravity 38 <sup>0</sup>			Sand 1044 - 49 Howard 1073 Severy Sand 1170 Topeka 1262 U. Hoover Sand 1670 L. Hoover Sand 1788 U. Stalnaker 1959 L. Stalnaker 2006 U. Layton Sand 2368 Kansas City 2403 L. Layton Sand 2476 B. K. C. 2559 Marmaton 2589 Arbuckle 2797 RTD 2811
#2 1158 - 1189 (Severy Sand) 30/45/90/60 Weak to strong blow Rec. 15' oil, 75' HOCM, 130' water 347/327 10/40 40/109 Volume (oil & mud .44 bbls) (water .64 bbls)			
#3 1561 - 1581 (Topeka) 30/45/90/60 Weak blow Rec. 114' WM 536/506 30/40 40/81			
#4 2009 - 2015 Open 1½ hours weak blow - 65 min. Rec. 50' MW 415/415 9/10 10/20			
#5 2130 - 2209 30/45/60/45 Weak blow Rec. 40' MW 534/395 4/6 6/20			
#6 2368 - 2393 (Layton Sand) 30/45/90/60 Fair - strong blow Rec. 290' gas in pipe, 80' MO (.4 bbls) 612/612 21/31 31/42			
#7 2653 - 2690 (Marmaton) 30/30/30/30 Weak blow & died 15 min. Rec. 20' mud 21/21 6/10 10/10			
#8 2801 - 2811 (Arbuckle) 30/45/60/45 gas to surface 48 min - to small to measure Rec. 920' GO, 1650' water 1091/1091 187/685 727/1059			
<b>NECESSARY, TO COMPLETE WELL RECORD.</b>			
<i>JIM THATCHER</i> Signature			
Jim Thatcher, Engineer Title			
September 10, 1976 Date			

DRILLERS LOG

14-32-2E  
15-191-20,555

OPERATOR: Beren Corporation; 970 Fourth Financial Center; Wichita, KS 67202

CONTRACTOR: White & Ellis Drilling, Inc., Box 448, El Dorado, Kansas 67042

Lease Name Gasaway Well No. A-16

Sec. 14 T. 32S R. 2E Spot NE SE SW

County Sumner State Kansas Elevation

Casing Record:

Surface: 8 5/8" @ 279' with 190 Sxs. 3% CC

Production: 5 1/2" @ 2810' with 200 Sxs.  
1295' 125 Sxs.

Type Well: Oil Total Depth 2811' K.B.

Drilling Commenced: 1-24-76 Drilling Completed 2-4-76

Formation	From	To	Tops
Cellar	0	7	Stalnaker 2010
Soil-Shale-Lime (Stks)	7	280	Kansas City 2393
- Shale & Lime (Stks)	280	835	Arbuckle 2800
Shale-Lime-Sand	835	1070	
Lime & Shale	1070	1158	
Sand & Shale	1158	1225	
Shale	1225	1280	
Lime & Shale	1280	1527	
Lime	1527	1581	
- Shale & Lime (Stks)	1581	1693	
Lime & Shale	1693	1915	
Shale	1915	1960	
Sand & Shale	1960	2010	
Sand	2010	2060	
Shale	2060	2150	
Sand & Shale	2150	2209	
Shale & Lime	2209	2240	
Shale	2240	2360	
- Shale & Sand	2360	2393	
Lime	2393	2520	
Lime & Shale	2520	2595	
Lime	2595	2600	
Shale & Lime	2600	2690	
Lime	2690	2704	
- Lime & Shale	2704	2800	
Lime	2800	2811	



COMPLETION RECORD

Liner Record: Size From To

Cementing Record: Sacks

Perforating Record:

Formation Perforated Interval Number Shots