

State Geological Survey
WICHITA BRANCH

15-051-21847

KANSAS DRILLERS LOG

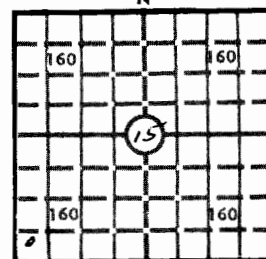
API No. 15 — Ellis — Kansas
County Number

S. 15 T. 13S R. 18 E. X
W

Loc. 900' FSL & 700' FWL

County Ellis, Ks.

640 Acres
N



Locate well correctly

Elev.: Gr. 2099

DF 2102 KB 2104

Operator Energy Reserves Group, Inc.	
Address P. O. Box 1201, Wichita, Kansas 67202	
Well No. 4	Lease Name Braun "A"
Footage Location 900 feet from (N) (S) line 700' feet from (E) (W) line	
Principal Contractor Rains & Williamson	Geologist Don F. Moore
Spud Date 1-4-80	Total Depth 3710'
	P.B.T.D. 3673'
Date Completed 1-12-80	Oil Purchaser

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	Sacks	Type and percent additives
Surface	12 1/4	8 5/8'		145'	50-50 poz	100	2% gel, 3% cc
Production	7 7/8	5 1/2	14	3708'	50-50 poz	250	2% gel, 75% CFR-2
					Common Lite	50 275	10% salt

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4	golden jet	3631-36' Arbuckle
TUBING RECORD					
Size	Setting depth	Packer set at			

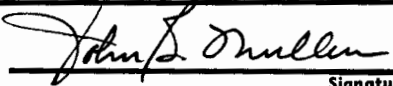
ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 gals. 15% NE acid	3631-36'

INITIAL PRODUCTION

Date of first production 1-23-80	Producing method (flowing, pumping, gas lift, etc.) POP		
RATE OF PRODUCTION PER 24 HOURS	Oil 41 B0pd bbls.	Gas MCF	Water 71 bwpd bbls.
Disposition of gas (vented, used on lease or sold)		Gas-oil ratio CFPB	
		Producing interval (s)	

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 Energy Reserves Group		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil	
Well No. 4	Lease Name Braun "A"		
S 15 T 13S R 18 E X			
WELL LOG		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
DST #1 3436-81 L/KC "B" zone 30-60-60-120. Rec. 1450" GIP, 30' HO & GCM, 220' GO, 35 deg. API. IF 37-64, ISIP 1131, FF 91-137, FSIP 1104. DST #2 3630-60' Upper Arb. Top of Arb. 3528 (-1524') 30-60-60-120. Rec. 300' GIP, 420' CO, 150' MO, 240' SGM0, 600' CO, 60' SMO, 60' OWM, 60' wtr w/few oil specks, 140' MW, IFP 91-374, ISIP 1067', FFP 428-666, FSI 1067. 108 deg. F. Producing from Arbuckle perfs. 3631-36'. Treated w/250 gals. 15% NE ac. POP 1-23-80. RTD 3710'. PBD 3675'			Anhydrite 1374 (+730) B " 1414 (+690) Queen Hill 3279 (-1175) Heebner 3360 (-1256) Lansing 3412 (-1308) Arbuckle 3628 (-1524) RTD 3710
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 Signature John B. Mullen Sr. Geologist Feb. 19, 1980 Title Date		