

AMENDED

KANSAS DRILLERS LOG

S. 12 T. 24S R. 16 E
 W

API No. 15 — 047 — 20,208-0000
 County Number

Loc. C N/2 NE NE

County Edwards

Operator
ET AL, INC.

Address
301 Cameron Bldg., 2915 Classen Blvd. Oklahoma City, OK 73106

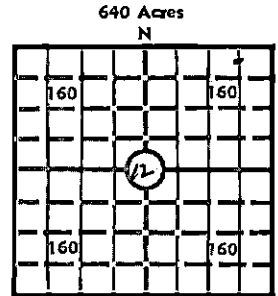
Well No. 2 Lease Name Howell Unit

Footage Location
330 feet from (N) (S) line 660 feet from (E) (W) line

Principal Contractor Sterling Drilling Company Geologist Frank M. Brooks

Spud Date July 14, 1976 Total Depth 4045' P.B.T.D. 4002'

Date Completed August 21, 1976 Oil Purchaser Koch Oil Company



Elev.: Gr. 2051'

DF 2057' KB 2060'

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	13-3/4"	8-5/8"	20#	372	Pozmix A	250	2% gel, 3% Ca Chl
Production	7-7/8	5-1/2	14	4040	Pozmix A	150	2% gel, 1.8% salt .75% CFR-2
							5% Gilsomite

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

PERFORATION RECORD

Shots per ft.	Depth interval
2	3881-3887' KB

RECEIVED STATE CORPORATION COMMISSION
 DEC 31 1976
 12-31-92
 .33 D.P. Jet
 Wichita, Kansas

TUBING RECORD

Size	Setting depth	Packer set at
2-3/8 EUE	3880	None

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 Gal. MCA	3881-3887'
200 Gal. N.E. Acid 28%	3881-3887'

INITIAL PRODUCTION

Date of first production <u>August 21, 1976</u>	Producing method (flowing, pumping, gas lift, etc.) <u>Pumping, 1 1/2" x 12' pump, 54" stroke, 6 SPM</u>
RATE OF PRODUCTION PER 24 HOURS	Oil <u>55</u> bbls. Gas <u>TSTM</u> MCF Water <u>Trace</u> bbls. Gas-oil ratio <u>too small to measure</u> CFPB
Disposition of gas (vented, used on lease or sold) <u>Lease engine fuel</u>	Producing interval (s) <u>3881-3887'</u>

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 Et Al, Inc. DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Well No. 2 Lease Name Howell Unit Oil

S12 T 24S R 16 E W

WELL LOG

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.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Soil, sand and shale	0	375	Anhydrite	976
Shale, red bed and sand	375	976	Herington	2029
Anhydrite	976	990	Winfield	2086
Shale and Lime	990	1667	Towanda	2147
Shale and shells	1667	1950	Ft. Riley	2189
Lime and shale	1950	3654	B. Florence	
Lime	3654	3730	Flint	2278
Lime & Shale	3730	3780	Neva	2544
Lime	3780	3856	Foraker	2609
Lime and Shale	3856	3935	Wabaunsee	2786
Lime	3935	4025	Tarkio	2907
Lime and shale w/chert	4025	4045	Elmont	2962
Sand, shaly-water	35	120	Howard	3035
Sand-Saltwater	465	520	Topeka	3108
Lime, Herington-Krider, tight	2029	2067	Queen Hill	3372
Lime, Winfield-tight	2086	2112	Heebner	3498
Lime, Foraker-tight	2609	2632	Brown Lm	3627
Lime, Howard- saltwater	3035	3057	Lansing	3635
Lime, Lansing-gas	3627	3652	B. of Kan Cty	3897
Lime, Lansing-tight	3737	3780	E. Arbuckle	4028
Lime, Lansing- oil and gas	3877	3896		
Lime, Arbuckle - gas	4037	4045	Radiation-Guard log to	4040
			Gamma-Collar Log	3500-4002
			Temp. Survey	3000-4000

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received	<i>Dale Rayburn</i>
	Signature
	President
	Title
	December 29, 1992
	Date