

IMPORTANT
 Kans. Geo. Survey request
 samples on this well.

15-065-20973

KANSAS DRILLERS LOG

S. 31 T. 9 R. 25 ^E/_W

API No. 15 — 065 — 20,973
 County Number

Loc. NW SE SE

County Graham

Operator
 Liberty Enterprises, Inc.

Address 308 West Mill Plainville, Kansas 67663

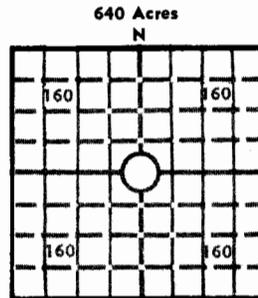
Well No. #1 Lease Name Brumgardt

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

Principal Contractor Helberg Oil Co. Geologist Francis Whisler

Spud Date November 15, 1977 Total Depth 3880' P.B.T.D.

Date Completed November 21, 1977 Oil Purchaser



Elev.: Gr. 2578'

DF 2580' KB 2583'

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 Casing	12 3/4	8 5/8	28 lbs.	200'	common	100	

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval

TUBING RECORD

Size	Setting depth	Packer set at

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	bbls.	MCF	bbls.	CFPB	
Disposition of gas (vented, used on lease or sold)			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 Liberty Enterprises, Inc.		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Well No. #1	Lease Name Brungardt	DRY HOLE
S 31 T 9S R 25 W Graham County, Kansas		

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

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

Date Received	_____
	Signature

	Title

	Date

12929

DRILLERS LOGBRUNGARDT #1CASING RECORD:

8 5/8" set at 208'

TOTAL DEPTH:

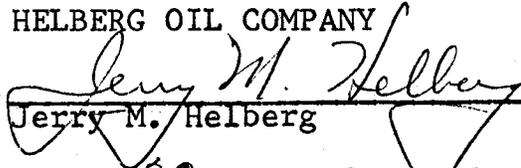
3880'

DESCRIPTION:NW SE SE
Sec. 31-9-25, Graham County, KansasOPERATOR: Liberty Enterprises Inc.CONTRACTOR: Helberg Oil CompanyCOMMENCED: November 15, 1977COMPLETED: November 22, 1977

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>	<u>REMARKS</u>
Sand & Shale	0	200	
Sand & Shale	200	226	
Sand & Shale	226	390	
Sand & Shale	390	1430	
Shale & Sand	1430	1920	
Sand & Shale	1920	2228	
Anhydrite	2228	2270	
Sand & Shale	2270	2510	
Shale	2510	2646	
Shale & Lime	2646	2746	
Shale	2746	2920	
Shale	2920	3028	
Shale	3028	3198	
Shale	3198	3313	
Shale	3313	3445	
Shale	3445	3585	
Shale	3585	3685	
Shale	3685	3780	
Lime	3780	3840	
Shale & Lime	3840	3856	
Lime	3856	3880	
T.D.	3880		D & A

I certify that this is a true and correct copy of the above log to the best of my knowledge.

HELBERG OIL COMPANY



 Jerry M. Helberg

Subscribed and sworn to before me this 30 day of November,