12-31-2W

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Petroleum Geologist

9710 WEST NINTH STREET

WICHITA, KANSAS

Jones-Gebert Oil Co.
1007 Central Building
Wichita 2, Kansas

Gentlemen:

The following is a Geological Report on the #1 Haines. The well was under geological supervision from 1700 feet to total depth.

OPERATOR:	Jones-Gebert Oil, Inc. Wichita, Kansas	COMMENCED:	5-27-61
		COMPLETED:	6-8-61
FARM NAME:	#1 Haines	ELEVATION:	1313 Gr., 1315 DF, 1318 KB. All measure- ments used are from the Kelly Bushing.
LOCATION:	Sec. 12-31S-2W E/2 SE NW Sumner County, Kansas		
CASING:	8-5/8" @ 393' w/250 sx. 5-1/2" @ 3799 w/50 sx.	SAMPLES: DRILLING TIME:	10' from 1000' to R.T.D. 5' under surface to 2900'. 1' from 2900' to R.T.D.
CONTRACTOR:	Jones-Gebert Oil, Inc.		
HOLE SIZE:	7-7/8"		
ELECTRIC LOG:	None		

GEOLOGICAL FORMATION TOPS
(Sample Tops)

Elmont-Reading	1725	(- 407)
Topeka	2035	(- 717)
Heebner	2460	(-1142)
Kansas City	3083	(-1765)
Base Kansas City	3340	(-2022)
Cherokee	3597	(-2279)
Mississippi	3752	(-2434)
Mississippi Dol.	3756	(-2438)
Rotary Total Depth	3800	(-2482)

GEOLOGICAL SAMPLE DESCRIPTION

Kansas City — 3083 (-1765)

3105-3131 — Cream, buff, granular-finely crystalline, slightly fossiliferous limestone, fair pinpoint to vugular porosity, no show, some white, cream smooth, sharp chert.

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	3136-3141	Buff, granular-finely crystalline, slightly chalky limestone, fair porosity, no show.
	3154-3166	Buff, cream, slightly cherty, fossiliferous lime with good pinpoint and vugular porosity, no show.
	3190-3210	Tan, brown, oolitic and oolicastic limestone, fair to good porosity, no show, some chalky, slightly mottled limestone, no show.
	3225-36	White, gray, earthy, chalky, vugular to sub-oolicastic limestone, fair to good porosity, no show.
	3266-71	Cream, white, slightly chalky, fossiliferous limestone, poor porosity, 1-2 pieces with slight oil stain.
	3280-3287	Cream, brown, oolicastic limestone, good porosity, no show.
Mississippi		3752 (-2434)
	3752-56	Sharp, white, opaque, slightly fossiliferous chert, no show.
		SEE CORE DESCRIPTION FOR REMAINING PORTION OF MISSISSIPPI.
CORE #1:	3756-72	Recovered 15'3".
	3756-57	Cream, tan, medium crystalline, sparkling, slightly dolomitic and fossiliferous limestone, occasional vugular porosity, mostly poor porosity, some calcite crystals, spotted very light staining, good fluorescence, no free oil, some gas bubbles, fair to good odor.
	3757-58	Cream, sparkling, sucrosic, limey dolomite with calcite inclusions, poor visible porosity, spotted light staining, good fluorescence and cut plus some interbedded sharp, dense, smooth, opaque, spicular chert, good odor, some good scattered porosity.
	3758-59	Same. Good fluorescence, cut, uniform light staining, fair to good porosity along dolomite chert contact.
	3759-60	Clear to cream, sucrosic to finely crystalline, slightly limey dolomite, calcite inclusions, poor visible porosity, spotted slight stain, spotted fluorescence and cut, some fossil casts, interbedded, gray, fossiliferous, sharp, opaque chert, thin partings of glazed calcite on chert facies, spotted fluorescence on fractured planes.

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	3760-61	Tan, sucrosic dolomite, some visible porosity, spotted light staining, good odor, good fluorescence and cut, no free oil.
	3761-62	Tan, gray, sucrosic dolomite, appears tighter than 3760-61, very scattered light stain, spotted fluorescence and cut, slight odor, no free oil.
	3762-63	Clear to gray, very finely sucrosic, tight dolomite, poor porosity, very slight fluorescence and cut plus sharp, smooth opaque, gray, cream chert, some fair porosity and fluorescence along chert dolomite contact plane.
	3763-64	Tan, earthy, sucrosic, siliceous, dolomite, some calcite inclusions, poor porosity, very poor fluorescence and cut, plus sharp, gray, opaque chert, some fair fluorescence along dolomite chert contact.
	3764-65	Brown, earthy, sucrosic, siliceous dolomite, very poor visible porosity, no staining, no fluorescence or cut, some asphaltic residue.
	3765-66	Same with some fibrous calcite crystals interbedded.
	3766-67	Gray, sucrosic, siliceous dolomite, very poor porosity, no show, spotted slight fluorescence, black, asphaltic residue.
	3767-68	Dirty, gray, sucrosic, siliceous dolomite, no visible porosity, no show, no fluorescence or cut, much asphaltic residue.
	3768-69	Same with calcite inclusions.
	3769-70	Same.
	3770-71	Same.
	3771-72	Same.
CORE #2:	3772-82	Recovered 10'.
	3772-73	Gray and bluish gray, smooth opaque, sub-translucent, sharp, fossiliferous chert, occasional trace of dolomite, no show, no fluorescence.
	3773-74	Tan, sucrosic dolomite, poor visible porosity, good odor, slight show of free oil, spotted staining, good fluorescence and cut.
	3774-75	Tan, sucrosic dolomite, no show, very slight fluorescence.
	3775-76	Dirty, gray, earthy, sucrosic dolomite, no show, no fluorescence, some chert stringers.
	3776-77	Dirty, gray, siliceous, dolomite, no show, plus sharp smooth, gray and bluish gray, fossiliferous chert, no show, some asphaltic residue.