

2-34S-3W

SW SE - NE
2-34S-3W
SU-Ks

GEOLOGICAL REPORT

LEE PHILLIPS OIL COMPANY

#1 WATTS ESTATE

SW SE NE 2-34S-3W

SUMNER CO., KANSAS

OWLL⁰

Prepared by
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PHONES

BUS.: AM 2-0905

RES.: PA 2-1242

March 12, 1968

Re: Lee Phillips Oil Company
#1 Watts Estate
SW SE NE 2-34S-3W
Sumner Co., Kansas

Mr. Lee Phillips, Jr.
Lee Phillips Oil Company
1532 Wichita Plaza Bldg.
Wichita, Kansas

Dear Sir:

Submitted herewith is the geological report concerning the above captioned test. Pertinent information is tabulated below:

Spud Date: Feb. 29, 1968 Completed: March 12, 1968
Surface Pipe: 252' 8 5/8" with 275 sx cement
Contractor: Sweetman Drilling, Incorporated
Open Hole Survey: None
Cores: None
Superior Drill Stem Tests: Three (see below)
Geological Formation Tops: (from samples.)

Elevations: 1160 RB, 1157 DF, 1152 GL

Chase Group	785	(+ 375)
Heebner shale	2755	(-1595)
Stalnaker sand	3160	(-2000)
Kansas City	3478	(-2318)
Base Kansas City	3745	(-2585)
Marmaton	3779	(-2619)
Cherokee	3961	(-2801)
Mississippi	4216	(-3056)
Kinderhook	4527	(-3367)
Viola	4588	(-3428)
Simpson	4598	(-3438)
R. T. D.	4638	(-3478)

Zones of interest were encountered at the following depths and evaluated as indicated:

3478- 89 (Kansas City) - Limestone - Buff to tan, fine to medium crystalline, fossiliferous. Trace of poor inter-fossiliferous and oolitic porosity. No show - not worth testing.

3647- 69 (Kansas City) - Sandstone - Gray, fine grained, subangular, tightly cemented and slightly micaceous. No show - not worth testing.

4216- 29 (Mississippi) - Limestone - Tan to brown, granular to fine crystalline, fossiliferous in part. Much gray to tan sharp, vitreous chert. Poor intercrystalline porosity from 4224-29'. No show, not worth testing.

4588- 98 (Viola) Limestone - White, chalky to white and gray mottled, medium to coarse crystalline. No porosity. No show - not worth testing.

4598-4608 (Simpson) - Sandstone, Gray, medium grained, rounded. Dolomitic in part. Good show of free oil and good fluorescence and weak odor in the wet sample. Light tan stain dry. Poor to good intergranular porosity. DST indicates no permeability.

DST #1 4595-4605 Open 1 hour.
Recovered 10' drilling mud.
IBHSIP/30 min. - 88 psi FBHSIP/30 min. - 72 psi
IFP - 32 psi FFP - 32 psi
Temperature 120°

4608-4615 (Simpson) - Shale - Green to dark gray green, fissile. Very sandy in part. Soft and argillaceous in part.

4615- 26 (Simpson) - Sandstone - Clear to white, medium grained, rounded and well sorted for the most part, friable. Very slight show of free oil with scattered fluorescence in the wet sample. Very sparse light tan oil stain in the dry sample.

DST #2 4604-4623 Open 1 hour.
Recovered 20' thin mud with a few specks of oil.
IBHSIP/30 min. - 1634 psi FBHSIP/30 min - 1563 psi
IFP - 32 psi FFP - 56 psi
Temperature 122°

4626- 36 (Simpson) - Sandstone - Tan to light brown, fine grained, subrounded and dolomitic. No porosity apparent. Some streaks of clear, medium grained, rounded and friable sand with very sparse fluorescence.

4236- 38 (Simpson) - Sand - Clear, medium grained, rounded and friable. Good intergranular porosity. No show of oil, very sparse fluorescence.

DST #3 4619-38 Open 1 hour.

Recovered 1500' saltwater.

IBHSIP/30 min. - 1713 psi FBHSIP/30 min. - 1604 psi

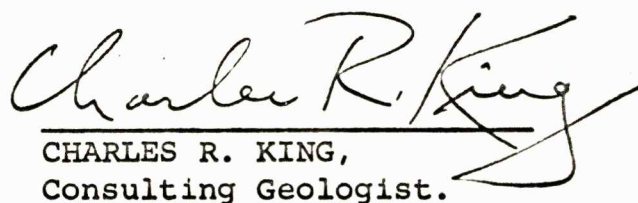
IFP - 112 psi FFP - 696 psi

Temperature 135°

The subject test was approximately flat, in the Permian and Pennsylvanian, with the dry hole 1/4 mile west. This position also prevailed at the top of the Mississippian. Approximately 19' of thinning in the upper Mississippian rocks resulted in the Watts #1 running 15' high on the Viola and Simpson beds. The good oil shows found in the upper Simpson rocks resulted from this structural attitude. Had this horizon possessed permeability, the Watts would have probably produced commercial oil.

It is possible that another test in the immediate area could encounter permeability and be successfully completed in the Simpson.

Yours very truly,


CHARLES R. KING,
Consulting Geologist.

CRK/mlb
Enc.

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