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GEOLOGIC REPORT

Hopper Oil Company, Inc.
#2 Kukuk
W/2 NE NW NW 11-33S-3E
Cowley County, Kansas

11-33-3E

Daily Progress (7:00 a.m.)

11-4 Moved on location, drilled out beneath surface casing at 11:00 pm
11-5 482', drilling
11-6 1240', drilling
11-7 1943', drilling
11-8 2565', drilling
11-9 3018', drilling
11-10 3340', drilling; TD 3395' at 11:30 am

Service Companies:

Contractor: Reynolds Drilling Company, Rig 4
Drilling Mud: Fud Mud
Cement: Halliburton

Formation Tops (sample):

Formations	Hopper #2 Kukuk W/2 NE NW NW 11-33S-3E KB 1173	Relation to Hopper #1 Kukuk W/2 NW NW 11-33S-3E	Relation to Crest #5 Kukuk NW NW NW 11-33S-3E
Iatan	2162 (-989)	-9	-7
Stalnaker	2207 (-1034)	-10	-8
Layton "A"	2622 (-1449)	-6	-11
Kansas City	2800 (-1627)	-13	-17
B. Kansas City	2920 (-1747)	-15	-21
Marmaton	2995 (-1822)	-16	-22
Cherokee	3117 (-1944)	-17	-26
Mississippi Chat	3294 (-2121)	-15	-23
Miss. Limestone	3344 (-2171)	-16	-39
TD	3395 (-2222)		

Shows:

Sample Depths

3294-97	Chert, 50% is fresh, white, hard, slightly oil stained; 50% is weathered, poor pinpoint porosity, uniform light brown stain, slight show of gassy oil and oil scum; good flourescence in 90% of sample, fair odor.
3297-3304	Chert, mostly weathered (75%) poor to fair pinpoint porosity at top, fair to good in lower half, uniform light brown stain fair show of gassy oil; 25% is fresh, white, oil stained and show of oil on fractures; good odor, good flourescence in 90% of sample.
3304-10	Chert, 60% weathered, 40% fresh, show as above except 80% flourescence.
3310-25	Chert, 50% fresh, white, slight oil stain on fractures; 50% weathered with light spotty stain, slight show of gassy oil, fair odor, 50% spotty flourescence.
3325-44	Chert, as above, less odor and flourescence, slight show of dead oil.

Recommendations and Summary:

It was recommended that the show of oil in the upper portion of the Mississippi Chat be further tested. Casing was set through the chat in order to complete the well through perforations.

Despite being considerably low structurally to producing wells in the Graham pool, there was a fair show of oil in the upper 13 feet of porous Mississippi Chat (3297 to 3310, subsea datum -2124 to -2137). Shows of oil decreased downward in the 50 foot chat section. It is recommended that perforations do not go much below -2128 (subsea), the datum of the lowest perforations in the Hopper #1 Kukuk well located 600 feet southwest of the captioned well.

Respectfully submitted,

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MKD:td