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11 - 33 - 3E

WELL:	Kukuk #1
LOCATION:	W½ NW NW 11-33S-3E Cowley County, Kansas
OPERATOR:	Hopper Oil Company
CONTRACTOR:	Triangle Drilling Company
DRILLING COMMENCED:	May 21, 1980
DRILLING COMPLETED:	May 29, 1980
PRODUCTION:	
ELEVATION:	1172 KB 1167 GL
DATUM:	All measurements are taken from the rotary bushing, 5' above ground level.
ROTARY TOTAL DEPTH:	3375'

Hopper Oil Company
State Bank Building
Winfield, Kansas 67156

Re: Kukuk #1

Gentlemen:

The following report covers facts pertinent to the drilling of your Kukuk #1 well. It includes geological tops as determined from sample analysis and correlated with drilling time log information, daily drilling depths, casing record, testing data, structural data and sample description of zones of interest. No open hole electric log was run.

FORMATION TOPS (Sample)

Formation	Depth	Sub-Sea Datum
Iatan	2151	- 979
Stalnaker	2203	-1031
Lansing	2389	-1217
Layton	2603	-1431
Kansas City	2783	-1611
Base K. C.	2901	-1729
Marmaton	2971	-1799
Cherokee	3096	-1922
Bartlesville	Absent	
Mississippi	3271	-2099
Chat Porosity	3273	-2101
Mississippi Lime	3325	-2153
Total Depth	3375	-2203

DAILY DRILLING DEPTH

Date	Depth @ 8 A.M.		Footage Made Previous 24 Hours
5/21/80	Move in.		
5/22/80	260	(Start under surf. @ 3:20 A.M.)	80
5/23/80	1123		863
5/24/80	1780		657
5/25/80	2325	(Shut down @ 6 p.m. for holiday)	545
5/26/80	2558	(Down)	233
5/27/80	2558	(Started drilling @ 8 a.m.)	0
5/28/80	2899		341
5/29/80	3243	(3375 TD)	344

BIT RECORD

No.	Size	Make	Type	Depth Out	Feet	Hours
	Surf. casing set w/c.t.			180	180	
1	7 7/8	Smith	F2 New	3375	3195	128

CASING RECORD

Type	Footage	Size	Set @	Cem. With
Surface	180	8 5/8	180	
Prod.	3375	4 1/2	3374	

TESTING DATA

No cores or drill stem tests were taken.

STRUCTURAL DATA

The following table gives the structural relationship between the Kukuk #1 and surrounding wells on the various formations listed. Plus (+) footage indicates the Kukuk #1 was higher, and minus (-) footage indicates it was lower than the given well.

Crest Petrol.
Kukuk #5
NW NW NW
11-33S-3E

Iatan	+ 2
Stalnaker	-17
Lansing	+ 5
Layton	+ 5
Kansas City	- 1
Base K. C.	- 4
Marmaton	+ 1
Cherokee	- 5
Mississippi	- 1

SAMPLE DESCRIPTION OF ZONES OF INTEREST
(Complete description is on Geologic Strip Log)

Depth From	Depth To	Formation Description	Remarks
3271	3273	Chert white, conglomeritic, mottled, hard	Mississippi.
3273	3279	Chert white, weathered, some tripolitic porosity, 10% fresh, hard	Chat Porosity. Good odor, good medium stain, good fluorescence in 75%, good show of oil and gas bubbles.

SAMPLE DESCRIPTION OF ZONES OF INTEREST

Depth From	Depth To	Formation Description	Remarks
3279	3281	Chert, white, fresh, hard	
3281	3289	Chert, white, weathered, porous	Good odor, light to medium stain in 40% of Samples. Good fluorescence in 80%. Show of free oil.
3289	3299	Chert, as above, with 30% fresh, hard, some very hard with good stain and fluorescence	As above. Weaker stain and fluorescence. Slightly watery show of free oil.
3299	3325	Chert, white, weathered, porous, some hard	Fair odor, fair stain, fair fluorescence, scum of free oil with black light
3325	3338	Lime, light tan, fine to medium (Miss. Lime--crystalline, no porosity	No odor, stain or fluorescence.
3338	3375 TD	Lime, light tan to tan, very fine crystalline, dense, some chalky with some chert, tan, fresh, hard	No odor, stain of fluorescence.

1173
2128
3301

REMARKS

There was a good development of Mississippi Chat in this well with good shows of oil, especially at the top, but the shows carried throughout the Chat. The potential productivity of this well will depend on how much the Chat has been drained by the well one-half location north that is no longer producing.

Casing was run to bottom in order to complete the well through perforations.

Yours truly,

George R. McNeish

George R. McNeish
Geological Engineer

