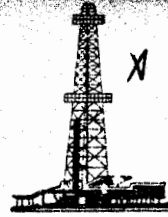


# DRILLING COMPANY, INC.



114 WEST LOCUST — P.O. BOX 645 — EL DORADO, KANSAS 67042

October 22, 1984

To: Shawnee Petroleum, Inc.  
1320 First National Bank  
Topeka, Kansas 66603

Lease: Hess #2

Location: Sec. 22, Twp. 13, Rge. 10E  
Wabaunsee County

Drilling  
Dates: October 9 thru October 19, 1984

## Drilling Log

Surface T.D. 316'  
Surface Set 312.49' of 8 5/8" Surface Casing  
Cemented by Consolidated

0 - 270'	Open hole
270 - 305'	Cement
305 - 894'	Shale
894 - 1272'	Shale w/Lime Streaks
1272 - 1290'	Lime
1290 - 1550'	Shale w/Sand
1550 - 1678'	Shale w/Streaks of Lime
1678 - 1767'	Lime & Shale Mixed
1767 - 1893'	K.C.
1893 - 1937'	Shale w/Sand & Lime
1937 - 2030'	Shale & Lime Mixed
2030 - 2111'	Lime w/Shale Streaks
2111 - 2475'	Shale & Lime Mixed
2475 - 2807'	Mississippi
2807 - 2992'	Kinderhook
2992 - 3143'	Hunton
3143 - 3216'	Maq.
3216 - 3337'	Viola
3337 - 3387'	Simpson Sand
3387 - 3440'	Arbuckle
3440'	T.D.

NOV 6 1984

**CONFIDENTIAL**

FEB 07 1985 State Geological Survey  
WICHITA BRANCH

State Geological Survey  
WICHITA BRANCH

Hess #2

22-13-10E

- Heebner Shale x
- Lansing LS tan/tr lt gry. Mot/sing. Xf/f-xln. Xln por. fossil in part. Tr wht chert: fresh/ang/no trip. Opaque. Tr firm. No/tr vis por.
- DST#1 LS Tan. Sing. Micro/xf-xln. Xln/part por. Xf sucrosic in part. Some clr fossil replacement. Friable. Tr vis por. Fr/gd odor. Sptd/uniform med yel fluor. After crushing, no free but after 30 sec rare free med brn dead oil. One gas bubble clinging to rock chip. Sptd/uniform med brn stain. Pos cut/res. Pos acid/res.
- Base KC SH Very dark gray. Sing. Soft  
LS Med tan. Sing. Dense. Micro-xln. Xln por. No por.  
CH Lt & med gry/grn-gry. Mot/sing. Some carb. Silty. Carb flecks in part.
- Mississippi CH Sandy near top. Wht/clr. Mot/sing. Xf clr sr/sa SD grn in chert matrix.  
Chert - wht. Fresh. Ang. Some inclusions. Opaque.
- Kinderhook SH Med/dk gry & grn-gry. Blk in pt. Massive. Tr silty and calc.
- Hunton Dolo (calc) Med gry/med tan/gry. Xf/vf sucrosic. Subhedral xtls. Tr firm. Some lt wht/gry chert. Fresh. Angular. No trip. H inclusions. Tr/fr vis por. NO/NS/NF.
- Maquoketa SH Lt & med gry. Hi dolomitic in pt. Some pyritic. F size, angular brn dolomite breccia at depth.
- Viola Dolo Ltd & med gry/med brn. Mostly mot/some sing. Sub/euhedral xtals. Friable. Gd vis por. Strong odor. Uniform v dull yel fluor. After crushing, rare free blk dead oil. No gas. Sptd med brn stain. Pos cut/res. Pos acid/res. Oil on wash water and cup.
- Simpson SS Clr/blk. Mot. Clr/wht with depth. F/m grn size. Sa/sr. Mod sort. Hi sph. Vit luster. Pt grn contact. Aspathic infill. Tr pyritic. Friable. Gd vis por. Dolomitic/disseminated grn with depth.
- Arbuckle Dolo (calc) Lt & med gry/lt tan. Mostly sing/tr mottled. F/m re-xln. Some fresh ool chert & sub/euhedral xtls. Tr vuggy por. No/tr vis por.

Oper: Shawnee Petro Inc.

Hess #2

22-13-10E

NE NE SW

FEB 07 1995

CONFIDENTIAL  
State Geological Survey  
WICHITA BRANCH  
State Geological Survey  
WICHITA BRANCH