

15-147-01009-10-00

GEOLOGICAL REPORT

**H & H INVESTMENTS
MONT SOL UNIT M-4
C-N/2-NW-NE
SEC. 12-4S-19W
PHILLIPS COUNTY, KANSAS**

Gentlemen:

The following is the geological report for the above captioned test.

CONTRACTOR: Shields Drilling
COMMENCED: 6/9/98
COMPLETED: 6/16/98
ELEVATIONS: 1969' GL, 1974' KB
DRILL STEM TESTS: Trilobite Testing
ELECTRIC LOG: Log Tech
CASING RECORD: Surface: 8 5/8" @ 208'
Production: 5 1/2" @ 3390'

RECEIVED
KANSAS CORP. CO.
JUN 23 1998

Geological Report
 Mont Hol Unit M-4

-2-

FORMATION TOPS
 (Kelly Bushing Measurements)

FORMATION	DEPTH (SAMPLE)	SUBSEA
Anhydrite	1533	+444
Base Anhydrite	1563	+416
Topeka	2953	-977
Oread	3111	-1134
Heebner	3151	-1174
Toronto	3174	-1198
Lansing-K.C.	3186	-1212
Base K.C.	3404	-1440
Marmaton	3450	-1474
T.D.	3500	

STRUCTURAL COMPARISON

Mont-Hol #3 100' (N/2-NE) Sec. 12-4-19	Krause #2 NW-SE-SE Sec. 1-4-19
Oread -1131	-1139
Toronto -1195	-1204
Lansing-K.C. -1208	-1218

ZONES OF INTEREST

FORMATION	DEPTH (SAMPLE)	DESCRIPTION
Topeka	2951 (-977)	No Porosity or shows seen.
Oread	3108 (-1134)	No Porosity or shows seen.

Geological Report
Mont-Sol Unit M-4

-3-

Toronto	3172 (-1198)	Limestone, cream, fine-Crystalline, oolitic, Fossiliferous, fair interoolitic And vuggular porosity, light Saturation, fair odor, fair show Free gassy oil. (Covered by DST #1) (Recommend testing prior To abandonment).
Lansing K.C.	3186 (-1212) 3189-90	Limestone, cream, fine Crystalline oolitic, fossiliferous, very spotted vuggular porosity, very spotted stain, trace free oil. (Covered by DST #1) (Recommend Testing prior to Abandonment).
DST #1.	3148-3205	Blow: 1 st : Weak ¼" blow died. In 28 min. Blow 2 nd : Very weak, died in 30 seconds. Recovery: 15' mud with oil Specks in tool. IF: 64-64 in 30 min. ISI: 1013 PSI in 30 min. FF: 1530 PSI in 5 min. FSI: Not Taken
	3225-29	Limestone, cream, fine-Crystalline, fossiliferous, Spotted fair vuggular porosity, Dark stain-saturation, fair odor Show free oil. (Recommend Testing Prior to Abandonment).

Geological Report
Mont-ool Unit M-4

-4-

	3246-48	Limestone, cream, fine-Crystalline, oolitic, spotted Fair interoolitic porosity, Spotted stain-trace saturation, Fair odor, slight show free oil. (Recommend Testing Prior to Abandonment).
	3272-74	Limestone, white-cream, fine-Crystalline, trace vuggular and trace porosity, spotted stain, weak odor, trace Free Oil (Recommend Testing Prior to Abandonment).
	3289-92	Limestone, cream, fine-Crystalline, fossiliferous, spotted fair-good vuggular porosity, light spotted stain-saturation, fair odor, show free oil (Recommend Testing prior to Abandonment).
	3344-46	Limestone, tan-cream, fine-Crystalline, fossiliferous, spotted vuggular porosity, spotted stain, weak odor slight show of free oil. (Recommend tesing prior to abandonment).
	3363-66	Limestone, white-cream, fine-Crystalline, fair oolitic porosity, No show, (Judged no Value).
Marmal on	3448 (-1474)	No porosity or shows seen.
TD	3498 (-1524)	

Geological Report
Mont-Sol Unit M-4

SUMMARY

This well was under geological supervision from 3150' to 3498' T.D. Wet and dry samples were examined from 2950 to T.D. One drill stem test was ran in the Toronto and top of the Lansing K.C. An open hole electric log was ran at T.D. Based on the above mentioned shows of oil and the favorable structural position relative to nearby well, 5 ½" production casing was set for further testing.

Original Signed by:

Kenneth Vehige
Geologist