

Results of Directional Survey

30-025-37056

**CHESAPEAKE OPERATING INC
YOUNG 11 FEDERAL # 1**

	MD	N/S	E/W	VD
	9065	-441.59	-394.36	9022.17
TOP PERFS/OH	9107	-444.60	-397.07	9063.97
	9128	-446.11	-398.43	9084.87
	9534	-467.52	-418.31	9489.76
BOT PERFS/OH	9602	-468.96	-420.26	9557.72
	9620	-469.34	-420.78	9575.71

NEXT TO LAST	9740	-471.32	-423.30	9695.66
LAST READING	9778	-471.93	-424.08	9733.65
TD	9844	-472.99	-425.43	9799.63

Surface Location	76	FS	2568	FW
Projected BHL	397	FN	2143	FW
Location of				
Top Perfs/OH	369	FN	2171	FW
Bottom Perfs/OH	393	FN	2148	FW

SUMMARY of Subsurface Locations

Surface Location	N-2-13S-38E	76	FS	2568	FW	Vert. Depth
Top Perfs/OH	C-11-13S-38E	369	FN	2171	FW	9063.97
Bottom Perfs/OH	C-11-13S-38E	393	FN	2148	FW	9557.72
Projected TD	C-11-13S-38E	397	FN	2143	FW	9799.63