

Results of Directional Survey

API number:	30-025-37571		
OGRID:		Operator:	CHESAPEAKE OPERATING INC
		Property:	KLEIN 1 FEDERAL # 1

surface	ULSTR:	K/3	01	T	11S	R	33E
			109	FNL	1579	FWL	

BH Loc	ULSTR:	K/3	01	T	11S	R	33E
			755	FNL	2014	FWL	

	MD	N/S	E/W	VD
	9100	-575.40	446.77	9041.56
TOP PERFS/OH	9114	-576.84	447.41	9055.47
	9200	-585.65	451.33	9140.93
	9100	-575.40	446.77	9041.56
BOT PERFS/OH	9120	-577.45	447.68	9061.43
	9200	-585.65	451.33	9140.93

NEXT TO LAST	9900	-642.59	439.10	9838.18
LAST READING	9927	-644.18	437.33	9865.08
TD	9962	-646.24	435.04	9899.95

Surface Location	109	FN	1579	FW
Projected BHL	755	FN	2014	FW
Location of				
Top Perfs/OH	686	FN	2026	FW
Bottom Perfs/OH	686	FN	2027	FW

SUMMARY of Subsurface Locations

Surface Location	K-01-11S-33E	109	FN	1579	FW	Vert. Depth
Top Perfs/OH	K-01-11S-33E	686	FN	2026	FW	9055.47
Bottom Perfs/OH	K-01-11S-33E	686	FN	2027	FW	9061.43
Projected TD	K-01-11S-33E	755	FN	2014	FW	9899.95