

Results of Directional Survey

30-025-24631

**SAGE ENERGY CO
NORTH VACUUM ABO NORTH UNIT # 1**

	MD	N/S	E/W	VD
	8690	-32.23	-32.36	8689.41
TOP PERFS/OH	8696	-32.41	-32.39	8695.41
	8698	-32.47	-32.40	8697.41
	10119	-909.08	947.27	8845.33
BOT PERFS/OH	10159	-932.46	979.57	8848.53
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NEXT TO LAST	10119	-909.08	947.27	8845.33
LAST READING	10159	-932.46	979.57	8848.53
TD	10159	-932.46	979.57	8848.53

Surface Location	800	FN	2120	FE
Projected BHL	1732	FN	1140	FE
Location of				
Top Perfs/OH	832	FN	2152	FE
Bottom Perfs/OH	1732	FN	1140	FE

SUMMARY of Subsurface Locations

Surface Location	B-01-17S-34E	800	FN	2120	FE	Vert. Depth
Top Perfs/OH	B-01-17S-34E	832	FN	2152	FE	8695.41
Bottom Perfs/OH	H-01-17S-34E	1732	FN	1140	FE	8848.53
Projected TD	H-01-17S-34E	1732	FN	1140	FE	8848.53