

Results of Directional Survey

30-025-36354

CHESAPEAKE OPERATING INC
BOYCE 15 # 4

	MD	N/S	E/W	VD
	10987	15.36	28.02	10978.31
TOP PERFS/OH	11080	20.29	28.36	11071.16
	11112	21.99	28.48	11103.11
	10987	15.36	28.02	10978.31
BOT PERFS/OH	11106	21.67	28.46	11097.12
	11112	21.99	28.48	11103.11

NEXT TO LAST	11829	14.80	12.80	11819.39
LAST READING	11902	9.86	9.20	11892.14
TD	11902	9.86	9.20	11892.14

Surface Location	2310	FS	660	FE
Projected BHL	2320	FS	651	FE
Location of				
Top Perfs/OH	2330	FS	632	FE
Bottom Perfs/OH	2332	FS	632	FE

SUMMARY of Subsurface Locations

Surface Location	I-15-16S-35E	2310	FS	660	FE	Vert. Depth
Top Perfs/OH	I-15-16S-35E	2330	FS	632	FE	11071.16
Bottom Perfs/OH	I-15-16S-35E	2332	FS	632	FE	11097.12
Projected TD	I-15-16S-35E	2320	FS	651	FE	11892.14