

Results of Directional Survey

API number:	30-005-29062		
OGRID:		Operator:	CIMAREX ENERGY CO OF COLORADO
		Property:	TICONDEROGA 16 STATE COM # 4

surface	ULSTR:	P	16	T 15S	R 31E
				375 FSL	375 FEL

BH Loc	ULSTR:	M	16	T 15S	R 31E
13299	MD	8752.8	TVD	366 FSL	4901 FEL

Top Perf/OH	ULSTR:	P	16	T 15S	R 31E
8399	MD	8397.4	TVD	439 FSL	312 FEL

Bot Perf/OH	ULSTR:	M	16	T 15S	R 31E
13100	MD	8755.7	TVD	373 FSL	4702 FEL

	MD	N/S	E/W	VD
	8118	59.95	53.16	8116.69
TOP PERFS/OH	8399	63.81	62.73	8397.44
	8452	64.54	64.54	8450.39
	13073	-1.35	-4299.96	8756.26
BOT PERFS/OH	13100	-2.32	-4326.94	8755.67
	13168	-4.75	-4394.88	8754.19

NEXT TO LAST	13168	-4.75	-4394.88	8754.19
LAST READING	13245	-7.44	-4471.83	8753.38
TD	13299	-9.33	-4525.79	8752.81

Surface Location	375 FS	375 FE
Projected BHL	366 FS	4901 FE
Location of		
Top Perfs/OH	439 FS	312 FE
Bottom Perfs/OH	373 FS	4702 FE

SUMMARY of Subsurface Locations

Surface Location	P-16-15S-31E	375 FS	375 FE	Vert. Depth
Top Perfs/OH	P-16-15S-31E	439 FS	312 FE	8397.44
Bottom Perfs/OH	M-16-15S-31E	373 FS	4702 FE	8755.67
Projected TD	M-16-15S-31E	366 FS	4901 FE	8752.81