

Results of Directional Survey

API number:	30-005-29065		
OGRID:		Operator:	CIMAREX ENERGY CO OF COLORADO
		Property:	MIDWAY 17 FEDERAL # 4

surface	ULSTR:	D	17	T	15S	R	31E
			375	FNL	375	FWL	

BH Loc	ULSTR:	A	17	T	15S	R	31E
			359	FNL	4825	FWL	

Top Perf/OH	ULSTR:	D	17	T	15S	R	31E
		9164	316	FNL	886	FWL	

Bot Perf/OH	ULSTR:	A	17	T	15S	R	31E
		13106	360	FNL	4825	FWL	

	MD	N/S	E/W	VD
	9164	58.52	511.06	8725.72
TOP PERFS/OH	9164	58.52	511.06	8725.72
	9195	57.03	541.96	8723.86
	12987	18.61	4331.14	8771.93
BOT PERFS/OH	13106	15.50	4450.10	8772.85
	13018	17.80	4362.13	8772.17

NEXT TO LAST	12987	18.61	4331.14	8771.93
LAST READING	13018	17.80	4362.13	8772.17
TD	13106	15.50	4450.10	8772.85

Surface Location	375	FN	375	FW
Projected BHL	359	FN	4825	FW
Location of				
Top Perfs/OH	316	FN	886	FW
Bottom Perfs/OH	360	FN	4825	FW

SUMMARY of Subsurface Locations

Surface Location	D-17-15S-31E	375	FN	375	FW	Vert. Depth
Top Perfs/OH	D-17-15S-31E	316	FN	886	FW	8725.72
Bottom Perfs/OH	A-17-15S-31E	360	FN	4825	FW	8772.85
Projected TD	A-17-15S-31E	359	FN	4825	FW	8772.85