

Results of Directional Survey

API number:	30-005-29152		
OGRID:		Operator:	CIMAREX ENERGY CO OF COLORADO
		Property:	INDEPENDENCE 8 FEDERAL COM # 2H

surface	ULSTR:	G	08	T 15S	R 31E
				1830 FNL	2310 FEL

BH Loc	ULSTR:	H	09	T 15S	R 31E
15777	MD	8800.4	TVD	1971 FNL	341 FEL
					4939 FWL

Top Perf/OH	ULSTR:	G	08	T 15S	R 31E
9275	MD	8730.2	TVD	1864 FNL	1559 FEL

Bot Perf/OH	ULSTR:	H	09	T 15S	R 31E
15728	MD	8800.0	TVD	1969 FNL	390 FEL
					4890 FWL

	MD	N/S	E/W	VD
	9222	-30.77	698.31	8729.72
TOP PERFS/OH	9275	-33.64	751.23	8730.22
	9285	-34.18	761.21	8730.32
	15728	-139.17	7200.36	8799.99
BOT PERFS/OH	15728	-139.17	7200.36	8799.99
	15777	-140.54	7249.34	8800.42

NEXT TO LAST	15728	-139.17	7200.36	8799.99
LAST READING	15777	-140.54	7249.34	8800.42
TD	15777	-140.54	7249.34	8800.42

Surface Location	1830	FN	2310	FE
Projected BHL	1971	FN	4939	FW
Location of				
Top Perfs/OH	1864	FN	1559	FE
Bottom Perfs/OH	1969	FN	4890	FW

SUMMARY of Subsurface Locations

Surface Location	G-08-15S-31E	1830	FN	2310	FE	Vert. Depth
Top Perfs/OH	G-08-15S-31E	1864	FN	1559	FE	8730.22
Bottom Perfs/OH	H-09-15S-31E	1969	FN	4890	FW	8799.99
Projected TD	H-09-15S-31E	1971	FN	4939	FW	8800.42