

JUL 07 2011

Results of Directional Survey

RECEIVED

API number:	30-005-29100		
OGRID:		Operator:	CIMAREX ENERGY CO. OF COLORADO
		Property:	VALLEY FORGE 20 STATE COM # 2H

surface	ULSTR:	L	20	T	15S	R	31E
				1780	FSL	480	FWL

BH Loc	ULSTR:	I	20	T	15S	R	31E
13053	MD	8788.0	TVD	1994	FSL	4949	FWL

Top Perf/OH	ULSTR:	L	20	T	15S	R	31E
8285	MD	8283.4	TVD	1794	FSL	513	FWL

Bot Perf/OH	ULSTR:	I	20	T	15S	R	31E
13053	MD	8788.0	TVD	1994	FSL	4949	FWL

	MD	N/S	E/W	VD
	8199.9	14.25	32.12	8198.34
TOP PERFS/OH	8285	14.34	33.07	8283.44
	8295.1	14.35	33.18	8293.54
	12935	206.43	4351.00	8781.62
BOT PERFS/OH	13053	213.51	4468.61	8788.00
	13001	210.39	4416.78	8785.19

NEXT TO LAST	12935	206.43	4351.00	8781.62
LAST READING	13001	210.39	4416.78	8785.19
TD	13053	213.51	4468.61	8788.00

Surface Location	1780	FS	480	FW
Projected BHL	1994	FS	4949	FW
Location of				
Top Perfs/OH	1794	FS	513	FW
Bottom Perfs/OH	1994	FS	4949	FW

SUMMARY of Subsurface Locations

Surface Location	L-20-15S-31E	1780	FS	480	FW	Vert. Depth
Top Perfs/OH	L-20-15S-31E	1794	FS	513	FW	8283.44
Bottom Perfs/OH	I-20-15S-31E	1994	FS	4949	FW	8788.00
Projected TD	I-20-15S-31E	1994	FS	4949	FW	8788.00

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