

Results of Directional Survey

API number:	30-025-38746		
OGRID:		Operator:	COG OPERATING LLC
		Property:	BC FEDERAL # 28

surface	ULSTR:	A	20	T 17S	R 32E
			690 FNL	280 FEL	

BH Loc	ULSTR:	A	20	T 17S	R 32E
			998 FNL	345 FEL	

Top Perf/OH	ULSTR:	A	20	T 17S	R 32E
		5462	983 FNL	340 FEL	

Bot Perf/OH	ULSTR:	A	20	T 17S	R 32E
		6810	1010 FNL	345 FEL	

	MD	N/S	E/W	VD
	5291	-290.00	-59.08	5278.05
TOP PERFS/OH	5462	-293.42	-59.71	5449.03
	5386	-291.90	-59.43	5373.04
	5291	-290.00	-59.08	5278.05
BOT PERFS/OH	6810	-320.38	-64.68	6796.89
	5386	-291.90	-59.43	5373.04

NEXT TO LAST	5291	-290.00	-59.08	5278.05
LAST READING	5386	-291.00	-59.43	5373.04
TD	7033	-308.34	-65.50	7019.87

Surface Location	690	FN	280	FE
Projected BHL	998	FN	345	FE
Location of				
Top Perfs/OH	983	FN	340	FE
Bottom Perfs/OH	1010	FN	345	FE

SUMMARY of Subsurface Locations

Surface Location	A-20-17S-32E	690	FN	280	FE	Vert. Depth
Top Perfs/OH	A-20-17S-32E	983	FN	340	FE	5449.03
Bottom Perfs/OH	A-20-17S-32E	1010	FN	345	FE	6796.89
Projected TD	A-20-17S-32E	998	FN	345	FE	7019.87