

Results of Directional Survey

API number:	30-025-34713		
OGRID:		Operator:	COG OPERATING LLC
		Property:	BC FEDERAL # 2

surface	ULSTR:	B	20	T 17S	R 32E
			330 FNL	2310 FEL	

BH Loc	ULSTR:	B	20	T 17S	R 32E
			301 FNL	2355 FEL	

	MD	N/S	E/W	VD
	5600	0.00	0.00	5600
TOP PERFS/OH	5361	0.00	0.00	5361.00
	5700	0.00	0.00	5700.00
	6700	20.13	-36.08	6699.12
BOT PERFS/OH	6700	20.13	-36.08	6699.12
	6750	21.24	-37.79	6749.08

NEXT TO LAST	6950	26.18	-43.67	6948.93
LAST READING	6953	26.26	-43.72	6951.92
TD	7055	28.98	-45.42	7053.58

Surface Location	330	FN	2310	FE
Projected BHL	301	FN	2355	FE
Location of				
Top Perfs/OH	330	FN	2310	FE
Bottom Perfs/OH	310	FN	2346	FE

SUMMARY of Subsurface Locations

Surface Location	B-20-17S-32E	330	FN	2310	FE	Vert. Depth
Top Perfs/OH	B-20-17S-32E	330	FN	2310	FE	5361.00
Bottom Perfs/OH	B-20-17S-32E	310	FN	2346	FE	6699.12
Projected TD	B-20-17S-32E	301	FN	2355	FE	7053.58