

Results of Directional Survey

API number:	30-025-38833		
OGRID:		Operator:	COG OPERATING LLC
		Property:	MC FEDERAL # 26

surface	ULSTR:	G	21	T	17S	R	32E
			2560	FNL	1880	FEL	

BH Loc	ULSTR:	G	21	T	17S	R	32E
			2303	FNL	1660	FEL	

Top Perf/OH	ULSTR:	G	21	T	17S	R	32E
		5444	2303	FNL	1662	FEL	

Bot Perf/OH	ULSTR:	G	21	T	17S	R	32E
		6830	2303	FNL	1660	FEL	

	MD	N/S	E/W	VD
	5390	255.81	216.58	5365.82
TOP PERFS/OH	5444	256.73	217.63	5419.79
	5454	256.90	217.83	5429.79
	6052	257.66	221.75	6027.74
BOT PERFS/OH	6220	257.37	220.46	6195.74
	6146	257.50	221.03	6121.74

NEXT TO LAST	6052	257.66	221.75	6027.74
LAST READING	6146	257.50	221.03	6121.74
TD	7035	255.99	214.22	7010.74

Surface Location	2560	FN	1880	FE
Projected BHL	2304	FN	1666	FE
Location of				
Top Perfs/OH	2303	FN	1662	FE
Bottom Perfs/OH	2303	FN	1660	FE

SUMMARY of Subsurface Locations

Surface Location	G-21-17S-32E	2560	FN	1880	FE	Vert. Depth
Top Perfs/OH	G-21-17S-32E	2303	FN	1662	FE	5419.79
Bottom Perfs/OH	G-21-17S-32E	2303	FN	1660	FE	6195.74
Projected TD	G-21-17S-32E	2304	FN	1666	FE	7010.74