

Results of Directional Survey

API number:	30-005-28000			
OGRID:		Operator:	COG OPERATING LLC	
		Property:	TAURUS 10 FEDERAL COM	# 1H

surface	ULSTR:	M	10	T	15S	R	31E
				330	FSL	330	FWL

BH Loc	ULSTR:	P	10	T	15S	R	31E
13180	MD	8806.6	TVD	1005	FSL	4945	FWL
						335	FEL

Top Perf/OH	ULSTR:	M	10	T	15S	R	31E
9132	MD	8766.9	TVD	395	FSL	949	FWL

Bot Perf/OH	ULSTR:	P	10	T	15S	R	31E
12725	MD	8797.5	TVD	965	FSL	4492	FWL
						788	FEL

	MD	N/S	E/W	VD
	9110	61.29	597.83	8764.85
TOP PERFS/OH	9132	64.79	619.46	8766.89
	9142	66.38	629.29	8767.81
	12719	634.57	4155.74	8797.35
BOT PERFS/OH	12725	635.23	4161.70	8797.49
	12752	638.18	4188.54	8798.11

NEXT TO LAST	13070	665.66	4505.26	8805.13
LAST READING	13090	667.31	4525.19	8805.39
TD	13180	674.74	4614.88	8806.56

Surface Location	330	FS	330	FW
Projected BHL	1005	FS	4945	FW
Location of				
Top Perfs/OH	395	FS	949	FW
Bottom Perfs/OH	965	FS	4492	FW

SUMMARY of Subsurface Locations

Surface Location	M-10-15S-31E	330	FS	330	FW	Vert. Depth
Top Perfs/OH	M-10-15S-31E	395	FS	949	FW	8766.89
Bottom Perfs/OH	P-10-15S-31E	965	FS	4492	FW	8797.49
Projected TD	P-10-15S-31E	1005	FS	4945	FW	8806.56