

Results of Directional Survey

API number:	30-025-40313		
OGRID:		Operator:	COG OPERATING LLC
		Property:	PEASHOOTER 4 FEDERAL <i>Com</i> # 1H

surface	ULSTR:	D	04	T 19S	R 32E
				380 FNL	760 FWL

BH Loc	ULSTR:	M	04	T 19S	R 32E
13840	MD	9460.6	TVD	345 FSL	441 FWL
				4935 FNL	

Top Perf/OH	ULSTR:	D	04	T 19S	R 32E
9567	MD	9357.8	TVD	700 FNL	674 FWL

Bot Perf/OH	ULSTR:	M	04	T 19S	R 32E
13812	MD	9458.7	TVD	373 FSL	442 FWL
				4907 FNL	

	MD	N/S	E/W	VD
	9535	-290.00	-76.60	9348.6
TOP PERFS/OH	9567	-320.00	-86.30	9357.80
	9567	-320.00	-86.30	9357.80
	13791	-4505.70	-317.80	9457.30
BOT PERFS/OH	13812	-4526.66	-318.49	9458.71
	13840	-4554.60	-319.40	9460.60

NEXT TO LAST	13791	-4505.70	-317.80	9457.30
LAST READING	13840	-4554.60	-319.40	9460.60
TD	13840	-4554.60	-319.40	9460.60

Surface Location	380	FN	760	FW
Projected BHL	4935	FN	441	FW
Location of				
Top Perfs/OH	700	FN	674	FW
Bottom Perfs/OH	4907	FN	442	FW

SUMMARY of Subsurface Locations

Surface Location	D-04-19S-32E	380	FN	760	FW	Vert. Depth
Top Perfs/OH	D-04-19S-32E	700	FN	674	FW	9357.80
Bottom Perfs/OH	M-04-19S-32E	4907	FN	442	FW	9458.71
Projected TD	M-04-19S-32E	4935	FN	441	FW	9460.60