

Results of Directional Survey

API number:	30-025-39463		
OGRID:		Operator:	COG OPERATING LLC
		Property:	GOOD HANDS 15 STATE # 1H

surface	ULSTR:	A	15	T 14S	R 32E
			1190	FNL	430
				FEL	

BH Loc	ULSTR:	C	15	T 14S	R 32E
			1210	FNL	3349
				FEL	

Top Perf/OH	ULSTR:	A	15	T 14S	R 32E
		9222	1213	FNL	953
				FEL	

Bot Perf/OH	ULSTR:	B	15	T 14S	R 32E
		9767	1216	FNL	1497
				FEL	

	MD	N/S	E/W	VD
	9219	-23.34	-519.55	8894.17
TOP PERFS/OH	9222	-23.25	-522.55	8894.04
	9252	-22.34	-552.50	8892.72
	9759	-25.79	-1059.13	8883.54
BOT PERFS/OH	9767	-25.99	-1067.13	8883.57
	9791	-26.57	-1091.12	8883.66

NEXT TO LAST	11498	-24.79	-2796.30	8854.59
LAST READING	11530	-23.55	-2828.26	8855.69
TD	11621	20.02	-2919.15	8858.82

Surface Location	1190	FN	430	FE
Projected BHL	1210	FN	3349	FE
Location of				
Top Perfs/OH	1213	FN	953	FE
Bottom Perfs/OH	1216	FN	1497	FE

SUMMARY of Subsurface Locations

Surface Location	A-15-14S-32E	1190	FN	430	FE	Vert. Depth
Top Perfs/OH	A-15-14S-32E	1213	FN	953	FE	8894.04
Bottom Perfs/OH	B-15-14S-32E	1216	FN	1497	FE	8883.57
Projected TD	C-15-14S-32E	1210	FN	3349	FE	8858.82