

Results of Directional Survey

API number:	30-025-41910		
OGRID:		Operator:	COG PRODUCTION, LLC
		Property:	CORVO FEDERAL # 2H

surface	ULSTR:	B	32	T 24S	R 32E
				190 FNL	2370 FEL

BH Loc	ULSTR:	B	29	T 24S	R 32E
13321	MD	8463.9	TVD	370 FNL	2193 FEL
4910 FSL					

Top Perf/OH	ULSTR:	B	32	T 24S	R 32E
8768	MD	8447.7	TVD	361 FSL	2237 FEL

Bot Perf/OH	ULSTR:	B	29	T 24S	R 32E
13250	MD	8461.4	TVD	441 FNL	2195 FEL
4839 FSL					

	MD	N/S	E/W	VD
	8737.00	520.40	131.80	8443.40
TOP PERFS/OH	8768.00	551.00	132.90	8447.70
	8768.00	551.00	132.90	8447.70
	13245.00	5024.20	174.60	8461.20
BOT PERFS/OH	13250.00	5029.20	174.75	8461.38
	13276.00	5055.20	175.50	8462.30

NEXT TO LAST	13276.00	5055.20	175.50	8462.30
LAST READING	13321.00	5100.20	176.80	8463.90
TD	13321.00	5100.20	176.80	8463.90

Surface Location	190	FN	2370	FE
Projected BHL	4910	FS	2193	FE
Location of				
Top Perfs/OH	361	FS	2237	FE
Bottom Perfs/OH	4839	FS	2195	FE

SUMMARY of Subsurface Locations

Surface Location	B-32-24S-32E	190	FN	2370	FE	Vert. Depth
Top Perfs/OH	B-32-24S-32E	361	FS	2237	FE	8447.70
Bottom Perfs/OH	B-29-24S-32E	4839	FS	2195	FE	8461.38
Projected TD	B-29-24S-32E	4910	FS	2193	FE	8463.90

JAN 29 2015