

Results of Directional Survey

API number:	30-025-41759		
OGRID:		Operator:	COG OPERATING LLC
		Property:	FLAT HEAD FEDERAL COM # 6H

surface	ULSTR:	B	14	T	17S	R	32E
				1115	FNL	1650	FEL

BH Loc	ULSTR:	B	11	T	17S	R	32E
11612	MD	5805.4	TVD	367	FNL	1688	FEL
4913 FSL							

Top Perf/OH	ULSTR:	B	14	T	17S	R	32E
6125	MD	5877.8	TVD	543	FNL	1694	FEL

Bot Perf/OH	ULSTR:	B	11	T	17S	R	32E
11525	MD	5806.3	TVD	454	FNL	1687	FEL
4826 FSL							

	MD	N/S	E/W	VD
	6122	540.92	-44.01	5877.15
TOP PERFS/OH	6125	571.98	-44.07	5877.75
	6154	872.27	-44.61	5883.53
	11454	5869.82	-34.80	5807.06
BOT PERFS/OH	11525	5940.80	-36.53	5806.32
	11549	5964.79	-37.12	5806.07

NEXT TO LAST	11549	5964.79	-37.12	5806.07
LAST READING	11612	6027.78	-37.89	5805.41
TD	11612	6027.78	-37.89	5805.41

Surface Location	1115	FN	1650	FE
Projected BHL	4913	FS	1688	FE
Location of				
Top Perfs/OH	543	FN	1694	FE
Bottom Perfs/OH	4826	FS	1687	FE

SUMMARY of Subsurface Locations

Surface Location	B-14-17S-32E	1115	FN	1650	FE	Vert. Depth
Top Perfs/OH	B-14-17S-32E	543	FN	1694	FE	5877.75
Bottom Perfs/OH	B-11-17S-32E	4826	FS	1687	FE	5806.32
Projected TD	B-11-17S-32E	4913	FS	1688	FE	5805.41

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