

Results of Directional Survey

API number:	30-025-40827		
OGRID:		Operator:	MANZANO LLC
		Property:	GAY NINETIES FEDERAL COM # 1H

surface	ULSTR:	J	36	T	19S	R	32E
				1547	FSL	2280	FEL

5272

BH Loc	ULSTR:	O	01	T	20S	R	32E
16245	MD	10009.4	TVD	271	FSL	2258	FEL
				5001	FNL		

Top Perf/OH	ULSTR:	J	36	T	19S	R	32E
9600	MD	9595.0	TVD	1488	FSL	2255	FEL

Bot Perf/OH	ULSTR:	O	01	T	20S	R	32E
16132	MD	10011.1	TVD	384	FSL	2262	FEL
				4888	FNL		

	MD	N/S	E/W	VD
	9582	-52.93	24.03	9578.15
TOP PERFS/OH	9600	-59.30	24.63	9594.97
	9614	-64.26	25.09	9608.05
	16090	-6393.41	16.58	10011.49
BOT PERFS/OH	16132	-6435.39	17.86	10011.13
	16186	-6489.36	19.51	10010.67

NEXT TO LAST	16186	-6489.36	19.51	10010.67
LAST READING	16245	-6548.31	21.63	10009.44
TD	16245	-6548.31	21.63	10009.44

Surface Location	1547	FS	2280	FE
Projected BHL	5001	FN	2258	FE
Location of				
Top Perfs/OH	1488	FS	2255	FE
Bottom Perfs/OH	4888	FN	2262	FE

SUMMARY of Subsurface Locations

Surface Location	J-36-19S-32E	1547	FS	2280	FE	Vert. Depth
Top Perfs/OH	J-36-19S-32E	1488	FS	2255	FE	9594.97
Bottom Perfs/OH	O-01-20S-32E	4888	FN	2262	FE	10011.13
Projected TD	O-01-20S-32E	5001	FN	2258	FE	10009.44

OCT 30 2014