

Results of Directional Survey

API number:	30-025-39556		
OGRID:		Operator:	APACHE CORP
		Property:	MARSHALL B # 12

surface	ULSTR:	L	27	T	21S	R	37E
			2205	FSL	725	FWL	

BH Loc	ULSTR:	L	27	T	21S	R	37E
			1688	FSL	390	FWL	

Top Perf/OH	ULSTR:	L	27	T	21S	R	37E
			3758	FSL	397	FWL	

Bot Perf/OH	ULSTR:	L	27	T	21S	R	37E
			3970	FSL	402	FWL	

	MD	N/S	E/W	VD
	3681	-499.47	-324.47	3612.71
TOP PERFS/OH	3758	-504.42	-327.81	3689.47
	3776	-505.58	-328.59	3707.42
	3967	-512.28	-322.80	3898.23
BOT PERFS/OH	3970	-512.32	-323.14	3901.23
	4062	-513.59	-333.48	3993.22

NEXT TO LAST	4347	-516.54	-334.34	4278.20
LAST READING	4414	-516.82	-334.69	4345.20
TD	4469	-517.05	-334.98	4400.20

Surface Location	2205	FS	725	FW
Projected BHL	1688	FS	390	FW
Location of				
Top Perfs/OH	1701	FS	397	FW
Bottom Perfs/OH	1693	FS	402	FW

SUMMARY of Subsurface Locations

Surface Location	L-27-21S-37E	2205	FS	725	FW	Vert. Depth
Top Perfs/OH	L-27-21S-37E	1701	FS	397	FW	3689.47
Bottom Perfs/OH	L-27-21S-37E	1693	FS	402	FW	3901.23
Projected TD	L-27-21S-37E	1688	FS	390	FW	4400.20