

Results of Directional Survey

API number:	30-025-39688		
OGRID:		Operator:	APACHE CORP
		Property:	J G HARE # 18

surface	ULSTR:	K	33	T 21S	R 37E
		1380	FSL	1520	FWL

BH Loc	ULSTR:	N	33	T 21S	R 37E
		1266	FSL	1359	FWL

Top Perf/OH	ULSTR:	N	33	T 21S	R 37E
		5547	1270	FSL	1363
				FWL	

Bot Perf/OH	ULSTR:	N	33	T 21S	R 37E
		6218	1266	FSL	1360
				FWL	

	MD	N/S	E/W	VD
	5544	-110.30	-157.30	5520.6
TOP PERFS/OH	5547	-110.32	-157.32	5523.60
	5635	-111.00	-157.80	5611.60
	6181	-113.80	-159.70	6157.60
BOT PERFS/OH	6218	-113.80	-160.11	6194.60
	6262	-113.80	-160.60	6238.60

NEXT TO LAST	6181	-113.80	-159.70	6157.60
LAST READING	6262	-113.80	-160.60	6238.60
TD	6324	-113.80	-161.29	6300.60

Surface Location	1380	FS	1520	FW
Projected BHL	1266	FS	1359	FW
Location of				
Top Perfs/OH	1270	FS	1363	FW
Bottom Perfs/OH	1266	FS	1360	FW

SUMMARY of Subsurface Locations

Surface Location	K-33-21S-37E	1380	FS	1520	FW	Vert. Depth
Top Perfs/OH	N-33-21S-37E	1270	FS	1363	FW	5523.60
Bottom Perfs/OH	N-33-21S-37E	1266	FS	1360	FW	6194.60
Projected TD	N-33-21S-37E	1266	FS	1359	FW	6300.60