

Results of Directional Survey

API number:	30-025-39558		
OGRID:		Operator:	APACHE CORP
		Property:	MARK OWEN # 5

surface	ULSTR:	K	35	T	21S	R	37E
			1460	FSL	1510	FWL	

BH Loc	ULSTR:	K	35	T	21S	R	37E
			1376	FSL	1369	FWL	

Top Perf/OH	ULSTR:	K	35	T	21S	R	37E
		6647	1365	FSL	1378	FWL	

Bot Perf/OH	ULSTR:	K	35	T	21S	R	37E
		7027	1369	FSL	1379	FWL	

	MD	N/S	E/W	VD
	6588	-94.60	-132.70	6582.5
TOP PERFS/OH	6647	-95.18	-131.86	6641.44
	6679	-95.50	-131.40	6673.40
	7000	-92.10	-130.80	6994.40
BOT PERFS/OH	7027	-91.48	-131.07	7021.37
	7100	-89.80	-131.80	7094.30

NEXT TO LAST	7500	-84.40	-138.10	7494.20
LAST READING	7560	-83.90	-139.90	7554.20
TD	7603	-83.54	-141.19	7597.20

Surface Location	1460	FS	1510	FW
Projected BHL	1376	FS	1369	FW
Location of				
Top Perfs/OH	1365	FS	1378	FW
Bottom Perfs/OH	1369	FS	1379	FW

SUMMARY of Subsurface Locations

Surface Location	K-35-21S-37E	1460	FS	1510	FW	Vert. Depth
Top Perfs/OH	K-35-21S-37E	1365	FS	1378	FW	6641.44
Bottom Perfs/OH	K-35-21S-37E	1369	FS	1379	FW	7021.37
Projected TD	K-35-21S-37E	1376	FS	1369	FW	7597.20