

Results of Directional Survey

API number:	30-025-39606		
OGRID:		Operator:	APACHE CORP
		Property:	STATE LAND 15 # 19

surface	ULSTR:	M	16	T	21S	R	37E
			895	FSL	540	FWL	

BH Loc	ULSTR:	M	16	T	21S	R	37E
			944	FSL	387	FWL	

Top Perf/OH	ULSTR:	M	16	T	21S	R	37E
		3762	940	FSL	384	FWL	

Bot Perf/OH	ULSTR:	M	16	T	21S	R	37E
		3984	941	FSL	384	FWL	

	MD	N/S	E/W	VD
	3725	44.60	-156.40	3715.2
TOP PERFS/OH	3762	44.79	-156.36	3752.20
	3820	45.10	-156.30	3810.20
	3915	45.70	-156.20	3905.20
BOT PERFS/OH	3984	45.99	-155.91	3974.20
	4010	46.10	-155.80	4000.20

NEXT TO LAST	4295	47.70	-153.60	4285.20
LAST READING	4362	48.50	-153.20	4352.20
TD	4414	49.12	-152.89	4404.20

Surface Location	895	FS	540	FW
Projected BHL	944	FS	387	FW
Location of				
Top Perfs/OH	940	FS	384	FW
Bottom Perfs/OH	941	FS	384	FW

SUMMARY of Subsurface Locations

Surface Location	M-16-21S-37E	895	FS	540	FW	Vert. Depth
Top Perfs/OH	M-16-21S-37E	940	FS	384	FW	3752.20
Bottom Perfs/OH	M-16-21S-37E	941	FS	384	FW	3974.20
Projected TD	M-16-21S-37E	944	FS	387	FW	4404.20