

Results of Directional Survey

API number:	30-005-29141		
OGRID:		Operator:	MACK ENERGY CORP
		Property:	PEERY FEDERAL # 12H

surface	ULSTR:	O	29	T 15S	R 30E
				965 FSL	1980 FEL

BH Loc	ULSTR:	M	29	T 15S	R 30E
11359	MD	8559.7	TVD	947 FSL	4953 FEL

Top Perf/OH	ULSTR:	O	29	T 15S	R 30E
8875	MD	8617.6	TVD	948 FSL	2438 FEL

Bot Perf/OH	ULSTR:	M	29	T 15S	R 30E
10301	MD	8619.3	TVD	933 FSL	3897 FEL

	MD	N/S	E/W	VD
	8843	-15.95	-436.30	8609.8
TOP PERFS/OH	8875	-17.14	-457.53	8617.57
	8884	-17.47	-463.50	8619.75
	10278	-31.42	-1893.54	8620.13
BOT PERFS/OH	10301	-31.61	-1916.53	8619.30
	10310	-31.68	-1925.52	8618.97

NEXT TO LAST	11265	-20.70	-2878.65	8563.88
LAST READING	11300	-19.70	-2913.60	8562.33
TD	11359	-18.01	-2972.52	8559.72

Surface Location	965	FS	1980	FE
Projected BHL	947	FS	4953	FE
Location of				
Top Perfs/OH	948	FS	2438	FE
Bottom Perfs/OH	933	FS	3897	FE

SUMMARY of Subsurface Locations

Surface Location	O-29-15S-30E	965	FS	1980	FE	Vert. Depth
Top Perfs/OH	O-29-15S-30E	948	FS	2438	FE	8617.57
Bottom Perfs/OH	M-29-15S-30E	933	FS	3897	FE	8619.30
Projected TD	M-29-15S-30E	947	FS	4953	FE	8559.72