

Results of Directional Survey

API number:	30-005-29117		
OGRID:		Operator:	MACK ENERGY CORP
		Property:	PEERY FEDERAL # 9

surface	ULSTR:	P	29	T	15S	R	30E
			1225	FSL	330	FEL	

BH Loc	ULSTR:	O	29	T	15S	R	30E
			950	FSL	1652	FEL	

Top Perf/OH	ULSTR:	P	29	T	15S	R	30E
		8777	975	FSL	581	FEL	

Bot Perf/OH	ULSTR:	O	29	T	15S	R	30E
		9673	946	FSL	1469	FEL	

	MD	N/S	E/W	VD
	8763	-248.82	-237.55	8657.75
TOP PERFS/OH	8777	-249.52	-250.66	8662.57
	8827	-252.00	-297.49	8679.77
	9652	-278.86	-1118.47	8663.74
BOT PERFS/OH	9673	-278.77	-1139.43	8662.43
	9684	-278.72	-1150.41	8661.75

NEXT TO LAST	9780	-277.58	-1246.24	8656.41
LAST READING	9801	-276.83	-1267.22	8655.77
TD	9856	-274.87	-1322.17	8654.09

Surface Location	1225	FS	330	FE
Projected BHL	950	FS	1652	FE
Location of				
Top Perfs/OH	975	FS	581	FE
Bottom Perfs/OH	946	FS	1469	FE

SUMMARY of Subsurface Locations

Surface Location	P-29-15S-30E	1225	FS	330	FE	Vert. Depth
Top Perfs/OH	P-29-15S-30E	975	FS	581	FE	8662.57
Bottom Perfs/OH	O-29-15S-30E	946	FS	1469	FE	8662.43
Projected TD	O-29-15S-30E	950	FS	1652	FE	8654.09