

Results of Directional Survey

UPPER PENN PERFS

API number:	30-025-34097			
OGRID:		Operator:	TEXACO EXPLORATION & PRODUCTION INC	
		Property:	STATE AN	# 11

surface	ULSTR:	B	07	T 18S	R 35E
			900	FNL	1440 FEL

BH Loc	ULSTR:	A	07	T 18S	R 35E
			408	FNL	537 FEL

Top Perf/OH	ULSTR:	A	07	T 18S	R 35E
		10236	566	FNL	945 FEL

Bot Perf/OH	ULSTR:	A	07	T 18S	R 35E
		10400	545	FNL	893 FEL

	MD	N/S	E/W	VD
	10175	326.00	476.00	10089.7
TOP PERFS/OH	10236	333.94	495.06	10147.08
	10271	338.50	506.00	10180.00
	10397	354.40	545.60	10298.80
BOT PERFS/OH	10400	354.78	546.53	10301.63
	10492	366.50	575.00	10388.30

NEXT TO LAST	11221	437.50	772.50	11086.20
LAST READING	11253	441.30	781.60	11116.60
TD	11681	492.13	903.31	11523.20

Surface Location	900	FN	1440	FE
Projected BHL	408	FN	537	FE
Location of				
Top Perfs/OH	566	FN	945	FE
Bottom Perfs/OH	545	FN	893	FE

SUMMARY of Subsurface Locations

Surface Location	B-07-18S-35E	900	FN	1440	FE	Vert. Depth
Top Perfs/OH	A-07-18S-35E	566	FN	945	FE	10147.08
Bottom Perfs/OH	A-07-18S-35E	545	FN	893	FE	10301.63
Projected TD	A-07-18S-35E	408	FN	537	FE	11523.20