

Results of Directional Survey

API number:	30-025-20381	Operator:	YATES PETROLEUM CORP
OGRID:		Property:	HERKIMER BQ F FEDERAL # 1 H

surface	ULSTR:	K	21	T	25S	R	36E
				1980	FSL	1980	FWL

BH Loc	ULSTR:	C	21	T	25S	R	36E
10121	MD	7515.3	TVD	4912	FSL	1980	FWL

Top Perf/OH	ULSTR:	K	21	T	25S	R	36E
7830	MD	7537.5	TVD	2631	FSL	2157	FWL

Bot Perf/OH	ULSTR:	C	21	T	25S	R	36E
10100	MD	7516.0	TVD	4891	FSL	1982	FWL

	MD	N/S	E/W	VD
	7819	640.70	177.32	7535.24
TOP PERFS/OH	7830	651.44	176.58	7537.51
	7850	670.96	175.23	7541.64
	10006	2817.41	8.60	7519.05
BOT PERFS/OH	10100	2911.09	1.65	7515.95
	10059	2870.23	4.68	7517.30

NEXT TO LAST	10006	2817.41	8.60	7519.05
LAST READING	10059	2870.23	4.68	7517.30
TD	10121	2932.02	0.09	7515.25

Surface Location	1980	FS	1980	FW
Projected BHL	4912	FS	1980	FW
Location of				
Top Perfs/OH	2631	FS	2157	FW
Bottom Perfs/OH	4891	FS	1982	FW

SUMMARY of Subsurface Locations

Surface Location	K-21-25S-36E	1980	FS	1980	FW	Vert. Depth
Top Perfs/OH	K-21-25S-36E	2631	FS	2157	FW	7537.51
Bottom Perfs/OH	C-21-25S-36E	4891	FS	1982	FW	7515.95
Projected TD	C-21-25S-36E	4912	FS	1980	FW	7515.25