

Results of Directional Survey

API number:	30-025-40602		
OGRID:		Operator:	CHESAPEAKE OPERATING, INC.
		Property:	KIEHNE RANCH 15 26 32 USA # 1H

surface	ULSTR:	M	15	T 26S	R 32E
				100 FSL	400 FWL

BH Loc	ULSTR:	D	15	T 26S	R 32E
14100	MD	9384.2	TVD	274 FNL	355 FWL
				5006 FSL	

Top Perf/OH	ULSTR:	M	15	T 26S	R 32E
9599	MD	9374.9	TVD	510 FSL	272 FWL

Bot Perf/OH	ULSTR:	D	15	T 26S	R 32E
13971	MD	9383.6	TVD	403 FNL	351 FWL
				4877 FSL	

	MD	N/S	E/W	VD
	9588	398.98	-126.65	9374.06
TOP PERFS/OH	9599	409.85	-128.01	9374.94
	9619	429.62	-130.49	9376.54
	13932	4737.65	-50.31	9383.39
BOT PERFS/OH	13971	4776.63	-48.88	9383.63
	14027	4832.59	-46.83	9383.97

NEXT TO LAST	14049	4854.57	-46.12	9384.06
LAST READING	14100	4905.55	-44.52	9384.24
TD	14100	4905.55	-44.52	9384.24

Surface Location	100	FS	400	FW
Projected BHL	5006	FS	355	FW
Location of				
Top Perfs/OH	510	FS	272	FW
Bottom Perfs/OH	4877	FS	351	FW

SUMMARY of Subsurface Locations

Surface Location	M-15-26S-32E	100	FS	400	FW	Vert. Depth
Top Perfs/OH	M-15-26S-32E	510	FS	272	FW	9374.94
Bottom Perfs/OH	D-15-26S-32E	4877	FS	351	FW	9383.63
Projected TD	D-15-26S-32E	5006	FS	355	FW	9384.24

dm