

Results of Directional Survey

API number:	30-025-41623		
OGRID:		Operator:	BTA OIL PRODUCERS, LLC
		Property:	VACA DRAW 9418 JV-P # 4H

surface	ULSTR:	C	10	T 25S	R 33E
				190 FNL	1650 FWL

BH Loc	ULSTR:	N	10	T 25S	R 33E
13918	MD	9442.1	TVD	359 FSL	1790 FWL
				4921 FNL	

Top Perf/OH	ULSTR:	C	10	T 25S	R 33E
9619	MD	9414.6	TVD	640 FNL	1683 FWL

Bot Perf/OH	ULSTR:	N	10	T 25S	R 33E
13825	MD	9446.3	TVD	449 FSL	1789 FWL
				4831 FNL	

	MD	N/S	E/W	VD
	9587	-420.20	25.10	9405.5
TOP PERFS/OH	9619	-449.90	33.00	9414.60
	9619	-449.90	33.00	9414.60
	13758	-4580.60	138.90	9449.10
BOT PERFS/OH	13825	-4641.39	139.39	9446.27
	13867	-4679.50	139.70	9444.50

NEXT TO LAST	13867	-4679.50	139.70	9444.50
LAST READING	13918	-4730.50	140.00	9442.10
TD	13918	-4730.50	140.00	9442.10

Surface Location	190	FN	1650	FW
Projected BHL	4921	FN	1790	FW
Location of				
Top Perfs/OH	640	FN	1683	FW
Bottom Perfs/OH	4831	FN	1789	FW

SUMMARY of Subsurface Locations

Surface Location	C-10-25S-33E	190	FN	1650	FW	Vert. Depth
Top Perfs/OH	C-10-25S-33E	640	FN	1683	FW	9414.60
Bottom Perfs/OH	N-10-25S-33E	4831	FN	1789	FW	9446.27
Projected TD	N-10-25S-33E	4921	FN	1790	FW	9442.10

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