

Results of Directional Survey

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API number:	30-025-41281		
OGRID:		Operator:	APACHE CORP
		Property:	BERTHA J BARBER # 15

surface	ULSTR:	A	07	T	20S	R	37E
				590	FNL	145	FEL

BH Loc	ULSTR:	A	07	T	20S	R	37E
3960	MD	3949.7	TVD	468	FNL	7	FEL

Top Perf/OH	ULSTR:	A	07	T	20S	R	37E
3426	MD	3419.6	TVD	511	FNL	54	FEL

Bot Perf/OH	ULSTR:	A	07	T	20S	R	37E
3858	MD	3848.2	TVD	470	FNL	15	FEL

	MD	N/S	E/W	VD
	3343	72.49	82.78	3337.22
TOP PERFS/OH	3426	79.23	90.51	3419.58
	3429	79.47	90.79	3422.56
	3856	119.40	129.84	3846.19
BOT PERFS/OH	3858	119.51	130.01	3848.18
	3910	122.31	134.35	3899.89

NEXT TO LAST	3910	119.40	134.35	3899.89
LAST READING	3960	122.31	138.26	3949.65
TD	3960	122.31	138.26	3949.65

Surface Location	590	FN	145	FE
Projected BHL	468	FN	7	FE
Location of				
Top Perfs/OH	511	FN	54	FE
Bottom Perfs/OH	470	FN	15	FE

SUMMARY of Subsurface Locations

Surface Location	A-07-20S-37E	590	FN	145	FE	Vert. Depth
Top Perfs/OH	A-07-20S-37E	511	FN	54	FE	3419.58
Bottom Perfs/OH	A-07-20S-37E	470	FN	15	FE	3848.18
Projected TD	A-07-20S-37E	468	FN	7	FE	3949.65

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