

Results of Directional Survey

API number:	30-025-41812		
OGRID:		Operator:	APACHE CORP
		Property:	MCDONALD STATE AC 2 # 38D

surface	ULSTR:	H	13	T	22S	R	36E
				2525	FNL	1070	FEL

BH Loc	ULSTR:	H	13	T	22S	R	36E
7518	MD	7513.8	TVD	2307	FNL	991	FEL
				2307	FNL	991	FEL

Top Perf/OH	ULSTR:	H	13	T	22S	R	36E
6258	MD	6254.6	TVD	2348	FNL	1003	FEL

Bot Perf/OH	ULSTR:	H	13	T	22S	R	36E
7033	MD	7029.1	TVD	2323	FNL	994	FEL
				2323	FNL	994	FEL

	MD	N/S	E/W	VD
	6205	174.49	66.56	6201.61
TOP PERFS/OH	6258	176.53	67.30	6254.57
	6300	178.15	67.88	6296.53
	6964	200.02	75.29	6960.12
BOT PERFS/OH	7033	202.26	75.73	7029.08
	7059	203.11	75.89	7055.07

NEXT TO LAST	7468	216.29	78.28	7463.85
LAST READING	7518	217.73	78.62	7513.83
TD	7518	217.73	78.62	7513.83

Surface Location	2525	FN	1070	FE
Projected BHL	2307	FN	991	FE
Location of				
Top Perfs/OH	2348	FN	1003	FE
Bottom Perfs/OH	2323	FN	994	FE

SUMMARY of Subsurface Locations

Surface Location	H-13-22S-36E	2525	FN	1070	FE	Vert. Depth
Top Perfs/OH	H-13-22S-36E	2348	FN	1003	FE	6254.57
Bottom Perfs/OH	H-13-22S-36E	2323	FN	994	FE	7029.08
Projected TD	H-13-22S-36E	2307	FN	991	FE	7513.83

SEP 30 2014



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HOBBS OCD

SEP 26 2014

RECEIVED

Apache Corporation⁽⁸⁷³⁾

Lea County, NM (NAD27 NME) H-13-T22S-R36E 2S2S' FNL + 1070' FEL

McDonald State A/C 2 30-02S-41812
#38

Wellbore #1 / #1410989

Survey: Phoenix MWD Survey

Standard Survey Report

08 July, 2014

Apache
EXPLORING WHAT'S POSSIBLE



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Apache Corporation⁽⁸⁷³⁾

Lea County, NM (NAD27 NME) H-13-T22S-R36E 2525'FUL + 1070'FEL

McDonald State 29 A/C 2 30-025-41812
#38

Wellbore #1 / #1410989

Design: Surveys (Capstar 119)

Standard Survey Report

18 June, 2014

