

PENNZOIL UNITED INC. MIDLAND, TEXAS
 BORDAGE WELL NO. 1
 WILDCAT FIELD
 LFA COUNTY, NEW MEXICO
 MAGNETIC MULTISHOT DIRECTIONAL SURVEY

DATE OF SURVEY JANUARY 3, 1972
 VERTICAL SECTION COMPUTED ALONG
 10 DEG. EAST MAGNETIC CORRECTION
 APPLIED
 MS-6131

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SPEERY-SUN WELL SURVEYING COMPANY
 RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	INCLINATION		DIRECTION	DOG-LFC SEVERITY		VERTICAL SECTION		RECTANGULAR COORDINATES	
		DEG	MIN		DEG	DEG/100	NORTH	SOUTH	EAST	WEST
9812.	9786.69	10	45	N 64 E		.53	277.47	119.18	250.57	
9906.	9880.19	10	15	N 65 E		.57	294.19	126.25	265.73	
10000.	9961.69	10	15	N 63 E		.38	310.91	133.84	280.63	

THE CALCULATION PROCEDURES ARE BASED ON THE USE OF THE TANGENTIAL OR CHORD METHOD

HORIZONTAL DISPLACEMENT = 310.91 FEET AT NORTH 64 DEG. 0 MIN. EAST (TRUE)