

SHENANDOAH OIL CORPORATION
 NEW MEXICO STATE L WELL NO 1
 HAYSTACK FIELD
 CHAVES COUNTY NEW MEXICO
 MAGNETIC MULTISHOT DIRECTIONAL SURVEY
 DATE OF SURVEY SEPTEMBER 21 1971
 VERTICAL SECTION COMPUTED ALONG 12 DEG EAST MAGNETIC CORRECTION APPLIED
 MS-60064 45-60/77

SPERRY-SUN WELL SURVEYING COMPANY
 RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	INCLINATION		DIRECTION	DOG-LEG SEVERITY DEG/100	VERTICAL SECTION	RECTANGULAR COORDINATES		
		DEG	MIN				NORTH	SOUTH	EAST WEST
5601.	5542.80	21	45	S 7 W	.79	397.19	378.99		119.73
5696.	5631.64	20	45	S 7 W	1.05	430.48	412.40		123.83
5790.	5720.78	18	30	S 8 W	2.42	460.06	441.94		127.98
5885.	5811.75	16	45	S 9 W	1.87	487.27	468.98		132.26
5979.	5902.44	15	15	S 11 W	1.70	511.92	493.25		136.98
6020.	5941.99	15	15	S 12 W	.64	522.68	503.80		139.22

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

HORIZONTAL DISPLACEMENT = 522.68 FEET AT SOUTH 15 DEG. 26 MIN. WEST ()