

ATLANTIC RICHFIELD COMPANY
 LANGLEY GREER NO. 1
 LANGLEY ELLENSBERGER FIELD
 LEA COUNTY, NEW MEXICO
 GYROSCOPIC AND MAGNETIC MULTISHOTS

DATE OF SURVEY FEBRUARY 19, 1979
 VERTICAL SECTION DIRECTION
 SU3-6274, NS-6209, NS-6275

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SPIERRY-SUN, INC.
 RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE		COURSE DIRECTION	DEC-LEG SEV DEG/100	TOTAL		RECTANGULAR COORDINATES EAST/WEST	VERTICAL SECTION
			INCLINATION DEG MIN	DEG			NORTH/SOUTH			
15100	15085.71	15085.71	5 0	S	40 W	2.04	246.95 S	256.79 W	356.10	
15200	15185.23	15125.33	5 0	S	30 W	0.87	254.07 S	301.77 W	394.47	
15300	15284.76	15224.76	7 15	S	41 W	2.53	262.61 S	308.09 W	404.76	
15400	15384.01	15384.01	6 45	S	45 W	0.70	271.53 S	316.39 W	416.26	
15500	15483.13	15483.13	8 0	S	51 W	1.47	280.06 S	325.95 W	429.66	
15600	15582.21	15582.21	8 0	S	55 W	0.59	289.44 S	337.06 W	442.57	
15700	15681.30	15681.30	7 30	S	57 W	0.57	295.96 S	348.20 W	455.96	
15800	15780.50	15780.50	7 0	S	60 W	0.63	302.58 S	355.93 W	469.47	
15900	15879.95	15879.95	5 0	S	58 W	2.01	307.94 S	367.96 W	479.81	
16000	15979.57	15979.57	5 0	S	56 W	0.17	312.68 S	375.27 W	486.46	
16100	16079.19	16079.19	5 0	S	56 W	0.	317.56 S	382.49 W	497.13	
16200	16178.88	16178.88	4 0	S	50 W	1.10	322.24 S	388.78 W	504.96	
16300	16278.65	16278.65	3 45	S	53 W	0.32	326.45 S	394.06 W	511.71	
16310	16288.63	16288.63	3 45	S	50 W	1.06	326.85 S	394.57 W	512.37	

** THE CALCULATIONS ARE BASED ON THE MINIMUM RADIUS OF CURVATURE METHOD **

HORIZONTAL DISPLACEMENT = 512.37 FEET AT SOUTH 50 DEG. 22 MIN. WEST (1979)