

ATLANTIC RICHFIELD
 LANGLEY BOREN COY. WELL NO 1
 LANGLEY ELLENBURGER GAS
 LEA COUNTY, NEW MEXICO
 MAGNETIC MULTISHOT

PAGE 2
 DATE OF SURVEY APRIL 11, 1970
 VERTICAL SECTION DIRECTION
 CLSUSURE

SPEERBY-SUN, INC.
 RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUR SEA TVD	COURSE INCUMINATION DEG MIN	COURSE DIRECTION DEG	DOG-LEG SEW DEG/100	RECTANGULAR NORTH/SOUTH	TOTAL COORDINATES EAST/WEST	VERTICAL SECTION
4600	4308.50	4308.50	2 45	N 30 E	0.72	34.49 N	04.70 E	70.74
4600	4498.47	4498.47	2 45	N 41 E	0.10	38.16 N	67.78 E	75.60
4600	4598.36	4598.36	2 45	N 42 E	0.09	41.76 N	70.06 E	80.39
4700	4698.22	4698.22	3 15	N 34 E	0.65	45.30 N	74.15 E	85.83
4800	4798.06	4798.06	3 15	N 34 E	0.	49.59 N	77.32 E	91.56
4900	4897.90	4897.90	3 15	N 35 E	0.06	55.20 N	80.54 E	96.50
5000	4997.72	4997.72	3 30	N 37 E	0.28	60.02 N	94.00 E	102.37
5100	5097.55	5097.55	3 15	N 33 E	0.34	64.84 N	87.38 E	108.12
5200	5197.39	5197.39	3 15	N 33 E	0.	69.59 N	90.47 E	113.62
5300	5297.23	5297.23	3 15	N 34 E	0.06	74.32 N	93.60 E	119.14
5400	5397.07	5397.07	3 15	N 32 E	0.11	79.07 N	96.68 E	124.64
5500	5496.88	5496.88	3 45	N 36 E	0.56	84.12 N	100.11 E	130.58
5600	5596.69	5596.69	3 15	N 32 E	0.56	89.17 N	103.53 E	136.53
5700	5696.52	5696.52	3 30	N 36 E	0.34	94.04 N	106.83 E	142.27
5800	5796.36	5796.36	3 0	N 45 E	0.54	98.43 N	110.41 E	147.87
5900	5896.22	5896.22	3 0	N 37 E	0.31	102.43 N	113.77 E	153.06
6000	5996.09	5996.09	3 0	N 34 E	0.15	106.69 N	116.80 E	158.10
6100	6095.95	6095.95	3 0	N 34 E	0.	111.03 N	119.73 E	163.20
6200	6195.81	6195.81	3 0	N 50 E	0.83	114.88 N	123.20 E	168.45

** THE CALCULATIONS ARE BASED ON THE MINIMUM RADIUS OF CURVATURE METHOD **
 HORIZONTAL DISPLACEMENT = 168.45 FEET AT NORTH 47 DEC. 0 MIN. EAST (TRUE)

US-5294