

UNITED OIL CO. PART OF CALIFORNIA HOLLAND TEXAS
 ORENS LEASE WELL NO. 1
 FIELD CAT
 LEA COUNTY NEAR TEXICO
 SLEWOLE GYROSCOPIC AND MAGNETIC MULTISHOTS

DATE OF SURVEY APRIL 30, 1969
 VERTICAL SECTION COMPUTED ALONG CLOSURE

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 SU-3-6654, MS-6655

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
2100	2099.86	0	45	N 39 E	.25	13.38	12.04		17.66
2200	2199.34	1	15	N 40 E	.21	14.44	13.55		19.22
2300	2299.61	1	30	N 23 E	.00	14.72	15.96		20.25
2400	2399.80	0	45	N 66 E	1.11	15.74	16.45		21.46
2500	2499.76	1	0	N 35 E	.55	16.28	17.88		22.46
2600	2599.77	1	0	N 48 E	.23	17.18	19.05		23.76
2700	2699.73	1	30	S 84 E	1.11	19.75	18.77		26.36
2800	2799.70	1	30	N 64 E	.63	21.67	19.92		28.71
2900	2899.66	1	30	S 66 E	1.27	24.26	18.86		31.11
3000	2999.62	1	45	N 58 E	.77	27.15	18.96		34.16
3100	3099.58	1	30	N 79 E	.36	29.46	19.46		36.73
3200	3199.57	1	0	S 90 E	.55	31.13	19.46		38.47
3300	3299.55	1	0	N 64 E	.45	32.41	20.23		40.04
3400	3399.54	0	45	N 49 E	.34	33.11	21.09		41.03
3500	3499.52	1	15	N 62 E	.55	34.65	22.11		42.96
3600	3599.50	1	15	S 63 E	1.06	36.82	21.29		44.98
3700	3699.49	0	30	N 45 E	1.14	37.25	21.90		45.61
3800	3799.49	0	30	N 37 E	.00	37.55	22.60		46.13
3900	3899.49	0	15	N 57 E	.26	37.83	22.83		48.50
4000	3999.49	0	15	N 67 E	.13	38.24	22.86		48.93
4100	4099.49	0	15	S 85 E	.03	38.86	22.82		47.37