

TEXACO, INC.
CENTRAL VACUUM UNIT NO. 139
VACUUM FIELD
LEAS COUNTY, NEW MEXICO
GYROSCOPIC SURVEL, MAGNETIC MULTISHOT

PAGE 1
DATE OF SURVEY JANUARY 27, 1979
VERTICAL SECTION DIRECTION CLOSURE

SUR-6245, NSB-6258

SPERRY-SUN, INC.
RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG	DOG-LEG SEV DEG/100	TOTAL RECTANGULAR NORTH/SOUTH	COORDINATES EAST/WEST	VERTICAL SECTION
0	0.	0.	ORIGIN AT THE SURFACE					
100	100.00	100.00	0 10	46	0.17	0.10	0.10	0.10
200	200.00	200.00	0 15	49	0.08	0.35	0.37	0.37
300	300.00	300.00	0 20	47	0.08	0.69	0.75	0.74
400	400.00	400.00	0 15	43	0.09	1.04	1.11	1.09
500	500.00	500.00	0 20	34	0.09	1.45	1.42	1.39
600	599.99	599.99	0 25	50	0.13	1.92	1.87	1.75
700	699.99	699.99	0 30	44	0.10	2.47	2.45	2.40
800	799.99	799.99	0 15	44	0.25	2.94	2.90	2.84
900	899.99	899.99	0 15	40	0.	3.25	3.21	3.16
1000	999.99	999.99	0 10	30	0.10	3.52	3.44	3.37
1100	1099.99	1099.99	0 20	29	0.17	3.91	3.65	3.57
1200	1199.99	1199.99	0 15	25	0.09	4.36	3.89	3.80
1300	1299.99	1299.99	0 20	15	0.10	4.84	4.05	3.95
1400	1399.99	1399.99	0 25	1	0.13	5.48	4.12	4.01
1500	1499.99	1499.99	0 30	0	0.12	6.27	4.19	4.06
1600	1599.97	1599.97	0 20	2	0.18	7.00	4.24	4.10
1700	1699.97	1699.97	0 25	1	0.08	7.65	4.23	4.07
1800	1799.97	1799.97	0 25	12	0.08	8.37	4.14	3.97
1900	1899.97	1899.97	0 25	24	0.09	9.06	3.92	3.72
2000	1999.96	1999.96	0 20	43	0.15	9.60	3.59	3.38
2100	2099.96	2099.96	0 25	71	0.20	9.93	3.03	2.93
2200	2199.96	2199.96	0 30	83	0.22	10.70	2.26	2.06
2300	2299.95	2299.95	1 5	54	0.69	9.39	1.06	0.66
2400	2399.93	2399.93	1 0	50	0.11	8.27	0.96	-0.06
2500	2499.92	2499.92	1 0	49	0.01	7.14	1.70	-1.35
2600	2599.90	2599.90	1 25	53	0.42	5.82	3.36	-3.47
2700	2699.86	2699.86	1 35	53	0.17	4.25	5.44	-5.53
2739	2738.55	2738.55	1 30	47	0.46	3.58	6.24	-4.31
2786	2785.82	2785.82	2 0	50	1.06	2.63	7.02	-7.37

TEACCO, INC.
CENTRAL VACUUM UNIT NO. 130
JACUUM FIELD
JEAS COUNTY, NEW MEXICO
HYDROSCOPIC SURVEL, MAGNETIC MULTISHOT

PAGE 2
DATE OF SURVEY JANUARY 27, 1979
VERTICAL SECTION DIRECTION CLOSURE

S03-6245, MSB-6258

SPEERY-SUN, INC.
RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG	DOC-LEG SEV DEG/100	TOTAL RECTANGULAR NORTH/SOUTH	COORDINATES EAST/WEST	VERTICAL SECTION
2981	2880.79	2880.79	1 15	44 E	0.81	0.82 S	9.31 E	-9.32
74	2973.75	2973.75	1 45	25 E	0.75	1.20 N	10.61 E	-10.59
3067	3066.68	3066.68	3 45	70 W	4.60	3.53 N	8.36 E	-3.26
3150	3159.34	3159.34	6 0	81 W	2.61	5.33 N	0.70 E	-0.50
3253	3251.70	3251.70	7 30	82 W	2.67	5.24 N	10.12 W	10.22
3346	3343.74	3343.74	9 0	71 W	2.33	2.03 N	23.01 W	23.04
3430	3435.06	3435.06	12 45	50 W	4.41	2.12 S	40.00 W	39.95
3532	3525.81	3525.81	12 30	80 W	0.27	5.65 S	60.02 W	59.99
3624	3615.63	3615.63	12 30	82 W	0.47	8.77 S	79.65 W	79.48
3717	3706.38	3706.38	12 45	83 W	0.36	11.42 S	99.83 W	99.56
3810	3797.13	3797.13	12 30	85 W	0.54	13.55 S	120.05 W	119.74
3903	3897.93	3897.93	12 30	87 W	0.47	14.05 S	140.12 W	139.78
3996	3978.64	3978.64	13 0	89 W	0.72	15.56 S	160.63 W	160.27
4089	4068.97	4068.97	14 30	85 W	2.22	14.85 S	182.69 W	182.35
4182	4158.91	4158.91	15 0	87 W	0.77	13.18 S	206.31 W	205.99
4275	4248.53	4248.53	16 0	84 W	1.35	11.21 S	231.07 W	230.79
4368	4337.69	4337.69	17 0	84 W	1.08	8.45 S	257.34 W	257.11
4460	4426.13	4426.13	18 0	81 W	2.35	5.18 S	282.48 W	282.31
4553	4516.21	4516.21	13 45	81 W	1.34	1.57 S	309.28 W	309.19
4646	4606.87	4606.87	12 0	85 W	2.11	1.00 N	325.83 W	325.79
4739	4698.01	4698.01	11 0	77 W	2.02	3.84 N	344.11 W	344.12
4832	4789.38	4789.38	10 30	81 W	0.97	7.16 N	361.13 W	361.20
4924	4801.18	4801.18	10 30	81 W	0.	7.50 N	363.29 W	363.36

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

HORIZONTAL DISPLACEMENT = 363.36 FEET AT NORTH 88 DEG. 49 MIN. WEST (TRUE)