

AMF / SCIENTIFIC DRILLING
MIDLAND, TEXAS

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JOB NUMBER: 132G1G5001

DATE: 01/03/85

INRUN SURVEY

BY

THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE	DIFFERENCE LATITUDE	D-LEG PIR 100
3100.00	3099.64	-6.28	1.50	0-45 N	49-28 E	19.10 N	4.30 E	.28
3200.00	3199.63	-7.25	1.31	0-45 N	34-35 E	20.07 N	5.17 E	.19
3300.00	3299.62	-7.92	1.16	0-35 N	23-47 E	21.09 N	5.74 E	.21
3400.00	3399.62	-8.15	1.00	0-33 N	8-43 W	22.07 N	5.87 E	.32
3500.00	3499.61	-7.98	.90	0-29 N	25-32 W	22.93 N	5.61 E	.16
3600.00	3599.61	-7.55	.95	0-36 N	41-22 W	23.72 N	5.09 E	.19
3700.00	3699.60	-6.99	1.12	0-41 N	30-13 W	24.63 N	4.43 E	.15
3800.00	3799.59	-6.46	1.21	0-43 N	34-4 W	25.65 N	3.79 E	.06
3900.00	3899.59	-5.89	1.08	0-31 N	41-55 W	26.50 N	3.13 E	.22
4000.00	3999.58	-5.41	.78	0-23 N	45-45 W	27.06 N	2.58 E	.14
4100.00	4099.58	-4.89	.86	0-36 N	40-29 W	27.69 N	2.00 E	.22
4200.00	4199.57	-4.37	1.19	0-46 N	24-7 W	28.62 N	1.36 E	.26
4300.00	4299.57	-4.03	1.35	0-47 N	16-52 W	29.96 N	.89 E	.10
4400.00	4399.56	-3.67	1.19	0-35 N	30-39 W	31.05 N	.41 E	.26
4500.00	4499.55	-3.12	1.02	0-34 N	46-24 W	31.85 N	.23 W	.16

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MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE DEPARTURE	D-LEG PLR 100
4600.00	4599.54	-2.20	1.25	0-52 N 60-19 W	32.59 N	1.23 W	.34
4700.00	4699.53	-.87	1.50	0-50 N 72-35 W	33.11 N	2.63 W	.27
4800.00	4799.52	.62	1.53	0-55 N 82-33 W	33.34 N	4.14 W	.09
4900.00	4899.51	2.03	1.44	0-44 N 87-21 W	33.47 N	5.56 W	.20
5000.00	4999.51	3.07	1.09	0-31 N 73-7 W	33.61 N	6.66 W	.24
5100.00	5099.50	3.99	.94	0-34 N 79-50 W	33.79 N	7.58 W	.05
5200.00	5199.50	4.87	.90	0-28 N 83-33 W	33.92 N	8.47 W	.11
5300.00	5299.49	5.61	.76	0-25 S 87-41 W	33.75 N	9.20 W	.30
5400.00	5399.49	6.23	.74	0-26 S 85-57 W	33.30 N	9.78 W	.07
5500.00	5499.49	6.99	.89	0-35 S 89-7 W	32.76 N	10.49 W	.19
5600.00	5599.48	7.99	1.13	0-43 S 93-13 W	32.13 N	11.43 W	.15
5700.00	5699.47	9.11	1.35	0-50 S 96-16 W	31.25 N	12.46 W	.15
5800.00	5799.46	10.38	1.53	0-55 S 93-22 W	30.27 N	13.63 W	.14
5900.00	5899.45	11.67	1.53	0-50 S 99-27 W	29.31 N	14.83 W	.10
6000.00	5999.44	12.76	1.50	0-53 S 97-36 W	28.42 N	16.03 W	.13

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MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	HEADING D M	COORDINATES LATITUDE	DIPARTURE	D-LEG PER 100
6100.00	6099.42	14.53	1.70	1- 4 S	63-54 W	27.59 N	17.52 W	.21
6200.00	6199.40	16.37	1.96	1-11 S	63-59 W	26.73 N	19.28 W	.12
6300.00	6299.38	18.29	2.12	1-15 S	54- 3 W	25.63 N	21.10 W	.22
6400.00	6399.36	20.18	2.17	1-14 S	55- 7 W	24.36 N	22.87 W	.03
6500.00	6499.33	22.05	2.07	1- 9 S	61-11 W	23.28 N	24.63 W	.15
6600.00	6599.31	24.11	2.21	1-23 S	65-15 W	22.29 N	26.60 W	.25
6700.00	6699.28	26.49	2.48	1-28 S	68-18 W	21.31 N	28.88 W	.11
6800.00	6799.25	29.00	2.61	1-31 S	67-57 W	20.34 N	31.30 W	.05
6900.00	6899.21	31.61	2.70	1-35 S	70-32 W	19.38 N	33.83 W	.10
7000.00	6999.16	34.61	3.02	1-53 S	85- 3 W	18.74 N	36.78 W	.53
7100.00	7099.09	38.39	3.81	2-29 N	83-23 W	18.79 N	40.58 W	.74
7200.00	7198.99	42.76	4.54	2-43 N	78- 5 W	17.52 N	43.06 W	.33
7300.00	7298.87	47.41	4.86	2-51 N	79-54 W	20.45 N	49.83 W	.16
7400.00	7398.75	52.03	4.83	2-41 N	78-31 W	21.36 N	54.87 W	.18
7500.00	7498.64	56.57	4.78	2-48 N	77- 1 W	22.37 N	59.24 W	.14