

SCIENTIFIC DRILLING INT'L.
MIDLAND, TEXAS

PAGE 1

JOB NUMBER: 13260389010

DATE: 03/16/89

INRUN SURVEY

BY

THE RADIUS OF CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE DEPARTURE	D-LEG PER 100
100.00	100.00	.26	.29	0-20 S	88-30 E	.01 S .29 E	.33
200.00	200.00	.76	.53	0-17 S	82-42 E	.05 S .82 E	.06
300.00	300.00	1.19	.45	0-14 S	74-36 E	.14 S 1.26 E	.06
400.00	400.00	1.53	.36	0-10 S	86-25 E	.20 S 1.62 E	.08
500.00	500.00	1.57	.20	0-4 N	13-49 W	.07 S 1.73 E	.20
600.00	599.99	1.28	.60	0-37 N	7-9 E	.53 N 1.69 E	.55
700.00	699.98	1.39	1.40	0-59 N	55-0 E	1.69 N 2.39 E	.73
800.00	799.97	2.14	1.51	0-45 N	57-36 E	2.52 N 3.65 E	.24
900.00	899.96	3.21	1.85	1-22 N	65-56 E	3.40 N 5.27 E	.63
1000.00	999.93	5.09	2.29	1-16 S	80-8 E	3.68 N 7.52 E	.77
1100.00	1099.89	7.94	2.91	2-4 S	70-24 E	2.94 N 10.33 E	.85
1200.00	1199.83	11.36	3.43	1-52 S	60-18 E	1.51 N 13.44 E	.40
1300.00	1299.74	15.36	4.06	2-47 S	49-34 E	.82 S 16.75 E	1.01
1400.00	1399.64	19.64	4.54	2-25 S	39-18 E	4.05 S 19.92 E	.59
1500.00	1499.55	23.64	4.20	2-23 S	52-53 E	6.96 S 22.94 E	.57

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MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	COURSE DEV.	INC D M	BEARING D M	COORDINATES LATITUDE	DEPARTURE	D-LEG PER 100
1600.00	1599.48	27.26	3.82	2- 0 S	37-24 E	9.65 S	25.65 E	.70
1700.00	1699.44	29.84	2.82	1-14 S	41-41 E	11.82 S	27.44 E	.78
1800.00	1799.41	32.04	2.29	1-23 S	56- 4 E	13.32 S	29.16 E	.36
1900.00	1899.39	34.08	2.11	1- 2 S	42-45 E	14.69 S	30.76 E	.45
2000.00	1999.38	35.52	1.50	0-41 S	51-27 E	15.71 S	31.85 E	.37
2100.00	2099.37	36.92	1.42	0-57 S	85-34 E	16.22 S	33.16 E	.54
2200.00	2199.35	38.57	1.73	1- 2 S	75-42 E	16.50 S	34.86 E	.19
2300.00	2299.34	40.15	1.64	0-51 S	81- 4 E	16.83 S	36.47 E	.20
2400.00	2399.33	41.41	1.45	0-49 N	74-57 E	16.76 S	37.91 E	.35
2500.00	2499.32	42.67	1.69	1- 7 N	74-48 E	16.32 S	39.54 E	.30
2600.00	2599.30	44.31	1.99	1-10 N	89-22 E	16.04 S	41.51 E	.29
2700.00	2699.28	46.15	1.92	1- 2 S	68-21 E	16.39 S	43.39 E	.44
2800.00	2799.26	47.80	1.66	0-52 S	60-37 E	17.10 S	44.88 E	.21
2900.00	2899.26	48.98	1.18	0-29 S	54-56 E	17.73 S	45.88 E	.39
3000.00	2999.25	49.74	.77	0-24 S	68-49 E	18.09 S	46.56 E	.14

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3100.00	3099.25	50.28	.54	0-13 S 57-1 E	18.34 S 47.03 E	.19	
3200.00	3199.25	50.69	.42	0-16 S 41-22 E	18.61 S 47.35 E	.08	
3300.00	3299.25	51.11	.49	0-18 S 25-36 E	19.02 S 47.62 E	.08	
3400.00	3399.25	51.61	.63	0-25 S 25-33 E	19.59 S 47.89 E	.12	
3500.00	3499.24	52.17	.73	0-25 S 22-43 E	20.25 S 48.19 E	.02	
3600.00	3599.24	52.60	.64	0-19 S 8-58 E	20.87 S 48.37 E	.13	
3700.00	3699.24	53.03	.64	0-25 S 21-20 E	21.49 S 48.53 E	.13	
3800.00	3799.24	53.58	.70	0-23 S 31-39 E	22.11 S 48.84 E	.08	
3900.00	3899.24	54.13	.66	0-24 S 29-51 E	22.67 S 49.18 E	.02	
4000.00	3999.23	54.88	.86	0-35 S 36-55 E	23.39 S 49.65 E	.19	
4100.00	4099.23	55.84	1.11	0-41 S 31-43 E	24.30 S 50.28 E	.12	