

TABULATION OF DEVIATION TESTS

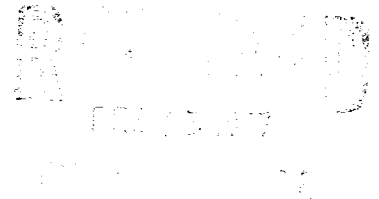
TENNECO OIL COMPANY E&P

DEPTH INCLINATION

DEPTH INCLINATION

Please see attached survey.

10-29N-13W



AFFIDAVIT

This is to certify that to the best of my knowledge, the above tabulation details the the deviation test taken on Tenneco Oil Company's well: City of Farmington Com 1.

Signed: Donald S. Barnes

Agent for Tenneco Oil Company

THE STATE OF COLORADO)
CITY AND COUNTY OF ~~DENVER~~ ARAPAHOE

Before me, the undersigned authority, on this day, personally appeared, DONALD S. BARNES, known to me to be an Agent for Tenneco Oil Company, and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that HE has knowledge of the facts stated herein, and that said statement is true and correct. Subscribed and sworn to before me, a Notary Public in and for said County and state, this 11th day of FEBRUARY, 19 87.

My Commission Expires:

JULY 24, 1988

Helen K. King
Notary Public

0024u

Sii DATADRIL
Division of Smith International, Inc.

TENNECO OIL COMPANY
CITY OF FARMINGTON #1
SEC 10-T29N-13W
SAN JUAN COUNTY, NEW MEXICO

File Name: TENCOF1MMS

***** RECORD OF SURVEY *****

Calculated by Sii DATADRIL's C.A.D.S. System

Radius of Curvature Method

All Angles are Decimal

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOUBLE SEVERITY (DEG/100')
0.00	0.00	N 0.00 E	0.00	0.00	0.00 N	0.00 E	0.00 N	0.00 E	0.00
540.00	0.00	N- 0.00 E	540.00	540.00	0.00 N	0.00 E	0.00 N	0.00 E	0.00
598.00	1.50	N 53.00 W	58.00	597.99	.46 N	.61 W	.76 N	53.00 W	2.59
659.00	1.25	N 55.00 W	61.00	658.98	1.32 N	1.79 W	2.22 N	53.66 W	.42
720.00	1.50	N 60.00 W	61.00	719.96	2.10 N	3.02 W	3.68 N	55.18 W	.45
780.00	1.50	N 48.00 W	60.00	779.94	3.02 N	4.29 W	5.25 N	54.83 W	.52
843.00	1.50	N 57.00 W	63.00	842.92	4.03 N	5.60 W	6.90 N	54.27 W	.37
906.00	1.00	N 47.00 W	63.00	905.90	4.87 N	6.68 W	8.27 N	53.90 W	.86
968.00	1.00	N 50.00 W	62.00	967.89	5.59 N	7.49 W	9.35 N	53.27 W	.08
1030.00	1.00	N 60.00 W	62.00	1029.88	6.21 N	8.38 W	10.43 N	53.45 W	.28
1092.00	1.25	N 62.00 W	62.00	1091.87	6.80 N	9.44 W	11.64 N	54.24 W	.41
1154.00	1.00	N 61.00 W	62.00	1153.86	7.38 N	10.51 W	12.84 N	54.93 W	.40
1216.00	1.00	N 87.00 W	62.00	1215.85	7.68 N	11.54 W	13.86 N	56.37 W	.73
1278.00	1.25	S 57.00 W	62.00	1277.84	7.37 N	12.70 W	14.68 N	59.88 W	1.19
1339.00	1.00	S 57.00 W	61.00	1338.82	6.71 N	13.70 W	15.26 N	63.90 W	.41
1402.00	1.00	S 50.00 W	63.00	1401.82	6.06 N	14.59 W	15.80 N	67.44 W	.19
1464.00	1.50	S 57.00 W	62.00	1463.80	5.26 N	15.67 W	16.53 N	71.46 W	.84
1526.00	1.50	S 61.00 W	62.00	1525.78	4.42 N	17.06 W	17.63 N	75.48 W	.17
1589.00	1.75	S 70.00 W	63.00	1588.75	3.68 N	18.69 W	19.05 N	78.86 W	.57
1653.00	1.25	S 70.00 W	64.00	1652.73	3.11 N	20.26 W	20.50 N	81.28 W	.78
1716.00	1.00	S 76.00 W	63.00	1715.72	2.75 N	21.45 W	21.62 N	82.70 W	.44

Sii DATADRIL
Division of Smith International, Inc.

TENNECO OIL COMPANY
CITY OF FARMINGTON #1

SEC 10-T29N-13W
SAN JUAN COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		C L O S U R E DISTANCE (FT)	DIRECTION (DEG)	DOGLEG SEVERITY (DEG/100')
1779.00	1.25	S 70.00 W	63.00	1778.71	2.38 N	22.63 W	22.75	N 83.98 W	.44
1842.00	1.00	S 73.00 W	63.00	1841.69	1.99 N	23.80 W	23.88	N 85.21 W	.41
1905.00	1.00	S 62.00 W	63.00	1904.69	1.57 N	24.81 W	24.86	N 86.37 W	.30
1968.00	1.50	S 80.00 W	63.00	1967.67	1.13 N	26.11 W	26.13	N 87.53 W	1.00
2028.00	1.50	S 85.00 W	60.00	2027.65	.92 N	27.67 W	27.68	N 88.09 W	.22
2091.00	1.25	S 80.00 W	63.00	2090.63	.72 N	29.16 W	29.17	N 88.58 W	.44
2153.00	1.50	S 75.00 W	62.00	2152.61	.40 N	30.62 W	30.62	N 89.25 W	.45
2213.00	1.25	S 70.00 W	60.00	2212.60	.03 S	31.99 W	31.99	S 89.95 W	.46
2276.00	1.50	S 80.00 W	63.00	2275.58	.42 S	33.45 W	33.45	S 89.28 W	.55
2339.00	1.00	S 81.00 W	63.00	2338.56	.65 S	34.80 W	34.81	S 88.93 W	.79
2403.00	1.00	S 85.00 W	64.00	2402.55	.78 S	35.91 W	35.92	S 88.75 W	.11
2464.00	1.00	S 78.00 W	61.00	2463.54	.94 S	36.96 W	36.97	S 88.54 W	.20
2535.00	1.00	S 55.00 W	71.00	2534.53	1.43 S	38.09 W	38.12	S 87.85 W	.56
2588.00	1.00	S 75.00 W	53.00	2587.52	1.82 S	38.93 W	38.97	S 87.32 W	.66
2651.00	1.00	S 65.00 W	63.00	2650.52	2.20 S	39.96 W	40.02	S 86.85 W	.28
2713.00	1.00	S 65.00 W	62.00	2712.51	2.65 S	40.94 W	41.02	S 86.29 W	0.00
2774.00	1.00	S 55.00 W	61.00	2773.50	3.19 S	41.86 W	41.98	S 85.65 W	.29
2835.00	1.00	S 60.00 W	61.00	2834.49	3.76 S	42.76 W	42.92	S 84.98 W	.14
2898.00	1.25	S 55.00 W	63.00	2897.47	4.42 S	43.80 W	44.02	S 84.24 W	.43
2960.00	1.00	S 60.00 W	62.00	2959.46	5.08 S	44.83 W	45.11	S 83.54 W	.43
3023.00	1.00	S 52.00 W	63.00	3022.45	5.69 S	45.74 W	46.09	S 82.91 W	.22
3086.00	1.00	S 5.00 W	63.00	3085.44	6.63 S	46.25 W	46.72	S 81.84 W	1.27
3149.00	1.00	S 25.00 W	63.00	3148.43	7.69 S	46.53 W	47.16	S 80.62 W	.55
3212.00	1.00	S 13.00 W	63.00	3211.42	8.72 S	46.89 W	47.69	S 79.46 W	.33
3275.00	1.50	S 0.00 E	63.00	3274.41	10.09 S	47.04 W	48.11	S 77.90 W	.91
3337.00	1.00	S 0.00 E	62.00	3336.39	11.44 S	47.04 W	48.41	S 76.33 W	.61
3400.00	.75	S 45.00 W	63.00	3399.39	12.30 S	47.40 W	48.97	S 75.45 W	1.12
3463.00	1.00	S 64.00 W	63.00	3462.38	12.86 S	48.18 W	49.87	S 75.05 W	.60
3526.00	1.25	S 43.00 W	63.00	3525.37	13.59 S	49.17 W	51.01	S 74.55 W	.76
3588.00	1.00	S 60.00 W	62.00	3587.36	14.35 S	50.12 W	52.13	S 74.02 W	.67
3650.00	1.25	S 41.00 W	62.00	3649.34	15.12 S	51.05 W	53.25	S 73.50 W	.72
3713.00	1.50	S 43.00 W	63.00	3712.33	16.24 S	52.07 W	54.54	S 72.67 W	.40
3776.00	1.00	S 55.00 W	63.00	3775.31	17.14 S	53.10 W	55.80	S 72.11 W	.89

Sii DATADRIL
Division of Smith International, Inc.

TENNECO OIL COMPANY
CITY OF FARMINGTON #1

SEC 10-T29N-13W
SAN JUAN COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DEG/100')
SMITH DRILLING SYSTEMS MULTI-SHOT 3803' TO 6035'									
3803.00	1.00	S 30.00 W	27.00	3802.31	17.49 S	53.42 W	56.21 S	71.87 W	1.60
3865.00	1.50	S 3.00 W	62.00	3864.29	18.77 S	53.80 W	56.98 S	70.76 W	1.23
3927.00	3.00	S 3.00 W	62.00	3926.24	21.20 S	53.92 W	57.94 S	68.54 W	2.42
3989.00	4.50	S 13.00 W	62.00	3988.11	25.21 S	54.49 W	60.04 S	65.17 W	2.63
4051.00	6.75	S 22.00 W	62.00	4049.80	31.00 S	56.31 W	64.28 S	61.17 W	3.89
4113.00	7.00	S 25.00 W	62.00	4111.36	37.81 S	59.27 W	70.30 S	57.47 W	.71
4175.00	8.00	S 24.00 W	62.00	4172.83	45.17 S	62.63 W	77.22 S	54.20 W	1.63
4237.00	9.00	S 19.00 W	62.00	4234.15	53.69 S	65.99 W	85.07 S	50.86 W	2.00
4299.00	9.00	S 18.00 W	62.00	4295.38	62.89 S	69.06 W	93.41 S	47.68 W	.25
4361.00	9.75	S 18.00 W	62.00	4356.55	72.50 S	72.18 W	102.31 S	44.88 W	1.21
4423.00	10.00	S 27.00 W	62.00	4417.64	82.31 S	76.25 W	112.20 S	42.81 W	2.52
4485.00	11.00	S 32.00 W	62.00	4478.60	92.14 S	81.81 W	123.22 S	41.60 W	2.18
4547.00	11.75	S 27.00 W	62.00	4539.38	102.78 S	87.83 W	135.20 S	40.52 W	2.00
4609.00	12.00	S 28.00 W	62.00	4600.05	114.10 S	93.72 W	147.65 S	39.40 W	.52
4671.00	12.00	S 29.00 W	62.00	4660.70	125.43 S	99.87 W	160.33 S	38.53 W	.34
4733.00	11.00	S 28.00 W	62.00	4721.45	136.29 S	105.77 W	172.52 S	37.81 W	1.64
4795.00	11.50	S 19.00 W	62.00	4782.26	147.37 S	110.59 W	184.25 S	36.89 W	2.94
4857.00	11.50	S 23.00 W	62.00	4843.01	158.91 S	115.02 W	196.16 S	35.90 W	1.29
4914.00	11.50	S 15.00 W	57.00	4898.87	169.64 S	118.71 W	207.05 S	34.98 W	2.80
4981.00	12.00	S 11.00 W	67.00	4964.47	182.93 S	121.78 W	219.76 S	33.65 W	1.43
5043.00	13.00	S 11.00 W	62.00	5025.00	196.11 S	124.34 W	232.20 S	32.38 W	1.61
5105.00	13.50	S 11.00 W	62.00	5085.34	210.06 S	127.05 W	245.49 S	31.17 W	.81
5167.00	14.00	S 11.00 W	62.00	5145.57	224.52 S	129.87 W	259.37 S	30.05 W	.81
5229.00	15.00	S 9.00 W	62.00	5205.59	239.81 S	132.56 W	274.01 S	28.93 W	1.80
5291.00	13.50	S 13.00 W	62.00	5265.68	254.79 S	135.47 W	288.56 S	28.00 W	2.89
5353.00	15.00	S 13.00 W	62.00	5325.77	269.66 S	138.91 W	303.33 S	27.25 W	2.42
5415.00	17.50	S 15.00 W	62.00	5385.29	286.49 S	143.10 W	320.24 S	26.54 W	4.13
5477.00	18.75	S 15.00 W	62.00	5444.21	305.12 S	148.09 W	339.16 S	25.89 W	2.02
5539.00	20.00	S 13.00 W	62.00	5502.70	325.07 S	153.07 W	359.31 S	25.21 W	2.28
5601.00	18.50	S 9.00 W	62.00	5561.23	345.13 S	156.97 W	379.15 S	24.46 W	3.22

Sii DATADRIL
Division of Smith International, Inc.

TENNECO OIL COMPANY
CITY OF FARMINGTON #1

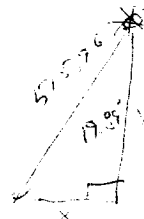
SEC 10-T29N-13W
SAN JUAN COUNTY, NEW MEXICO

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		C L O S U R E DISTANCE DIRECTION (FT) (DEG)		DOGLEG SEVERITY (DEG/100')
5663.00	19.50	S 7.00 W	62.00	5619.86	365.12 S	159.78 W	398.55 S	23.63 W	1.92
5725.00	20.00	S 6.00 W	62.00	5678.21	385.94 S	162.15 W	418.62 S	22.79 W	.97
5787.00	19.00	S 7.00 W	62.00	5736.65	406.50 S	164.49 W	438.52 S	22.03 W	1.70
5849.00	19.00	S 8.00 W	62.00	5795.27	426.51 S	167.13 W	458.09 S	21.40 W	.53
5911.00	19.00	S 7.00 W	62.00	5853.90	446.53 S	169.76 W	477.71 S	20.82 W	.53
5973.00	18.25	S 9.00 W	62.00	5912.65	466.13 S	172.52 W	497.03 S	20.31 W	1.59
6035.00	18.00	S 9.00 W	62.00	5971.57	485.18 S	175.54 W	515.96 S	19.89 W	.40

BOTTOM HOLE CLOSURE: 515.96 Feet at S 19.89 Degrees W

Bottom

116.7E
12.71S



2 DEC 1986 @ 13:46

TENNECO OIL COMPANY
CITY OF FARMINGTON #1
SEC 10-T29N-R13W
SAN JUAN COUNTY, NEW MEXICO

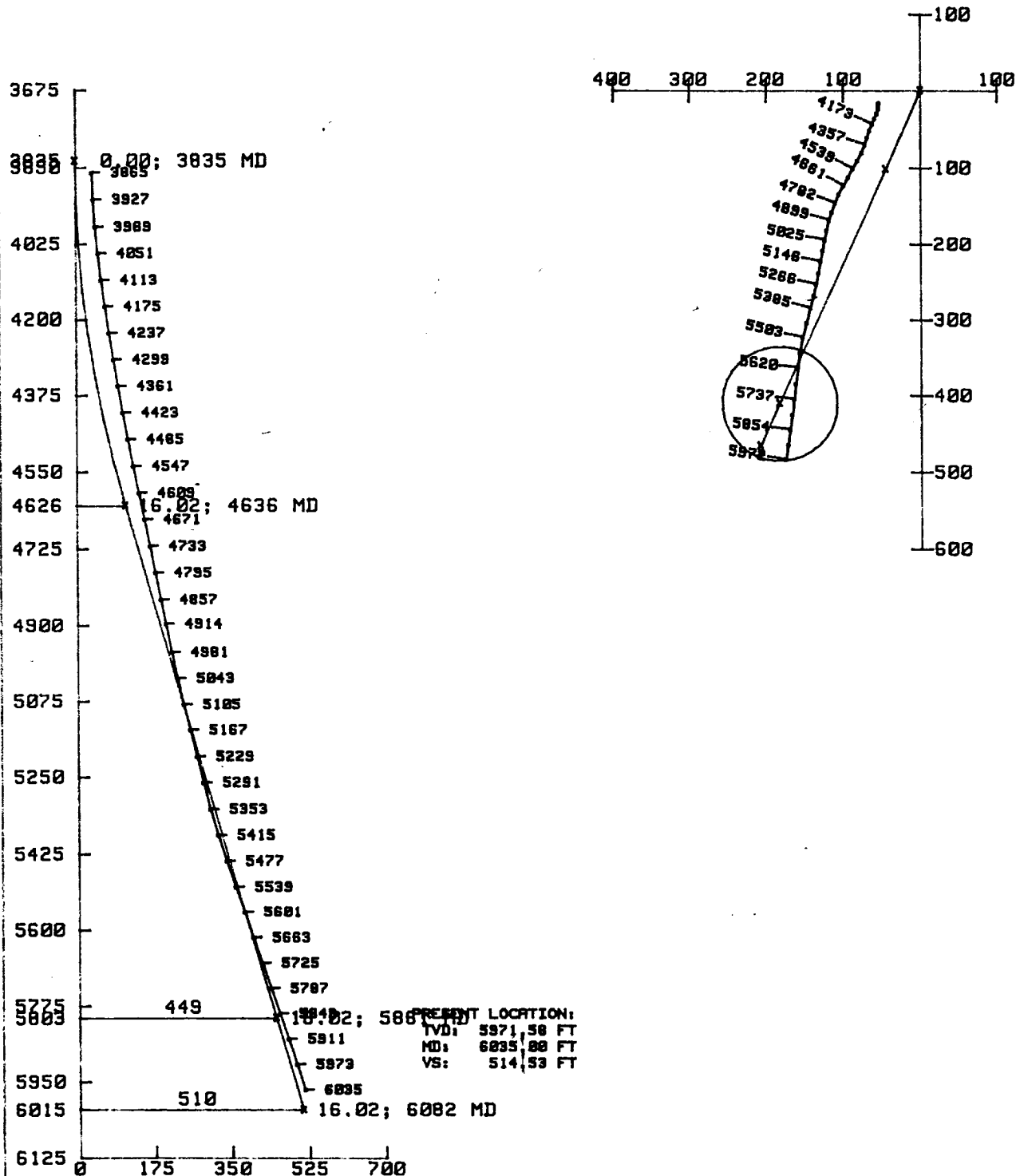


DATADRILL

Division of Smith International, Inc.

VERTICAL PLANE
SCALE: 175 FEET/DIVISION

HORIZONTAL PLANE
SCALE: 100 FEET/DIVISION



VERTICAL SECTION PLANE: S 24.17 W

TENNECO OIL COMPANY
CITY OF FARMINGTON #1
SEC 10-T29N-13W
SAN JUAN COUNTY, NEW MEXICO

1 DEC 1986 @ 8:28

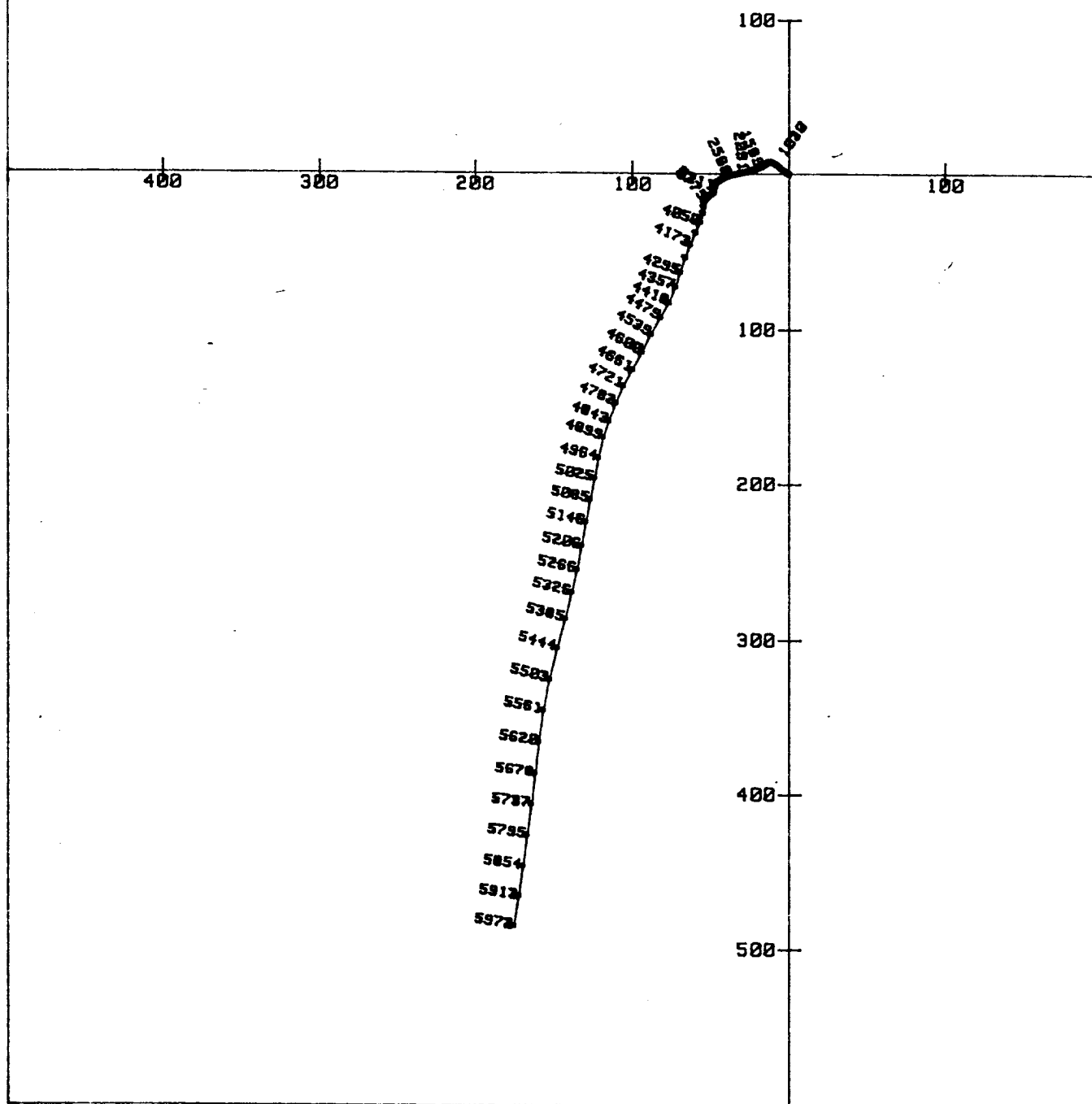


HORIZONTAL PLOT



SCALE: 100 FEET/INCH

BHL: 516 FEET
@ S 19.89 W
TVD: 5972 FEET
MD: 6035 FEET



TENNECO OIL COMPANY
CITY OF FARMINGTON #1
SEC 10-T29N-13W
SAN JUAN COUNTY, NEW MEXICO

1 DEC 1986 @ 8:32

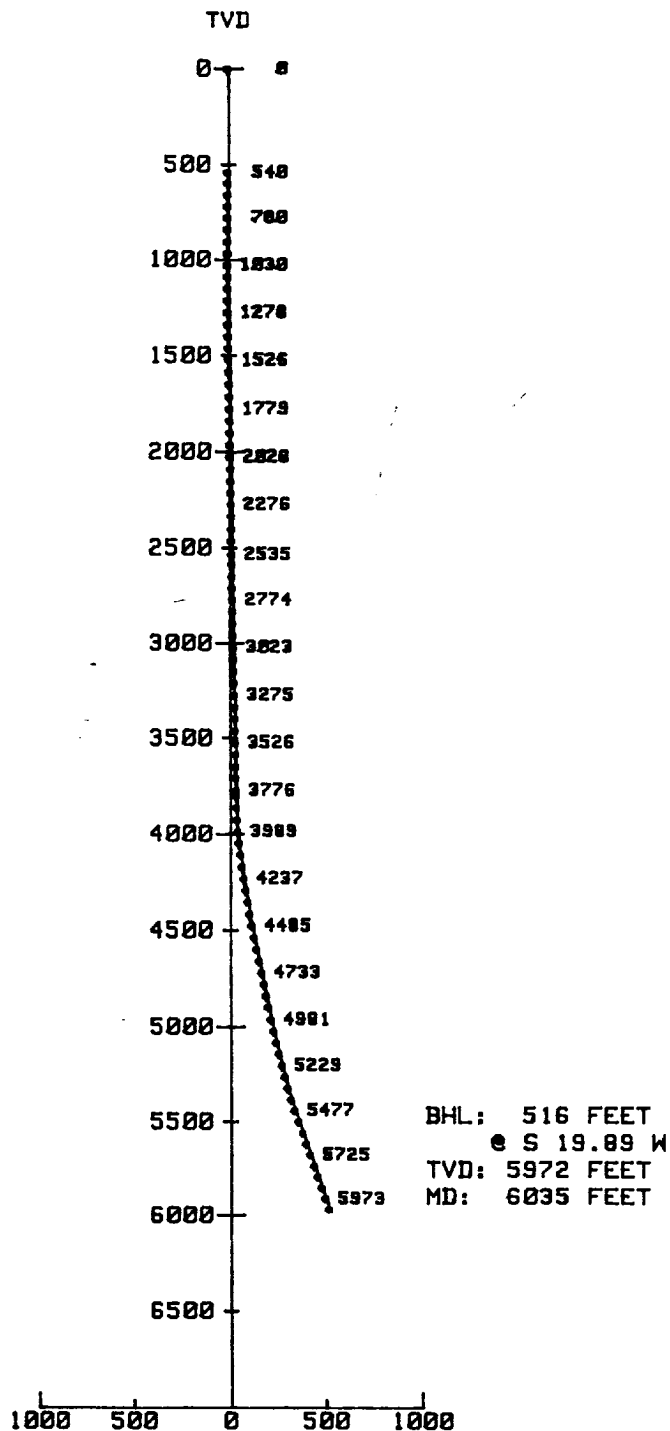


DATA DRILL

Division of Smith International, Inc.

VERTICAL PLOT

SCALE: 1000 FEET/INCH



VERTICAL SECTION

SECTION PLANE: S 19.89 W