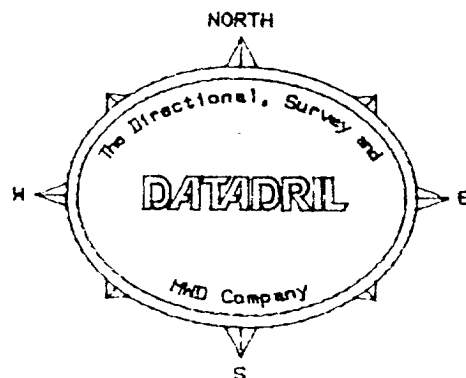


DATADRIL

REPORT of WELL COMPLETION SURVEY

TERRA RESOURCES INC.
TERRA FEDERAL 22 COM. 1
CHAVES COUNTY, N.M.
TOT#2



DATADRIL

TERRA RESOURCES INC.
TERRA FEDERAL 22 COM. 1
CHAVES COUNTY, N.M.
TOT#2
06-07-88

MAGNETIC MULTISHOT
DECLINATION= 10 DEGREES EASTERLY
HOLE DIRECTION= S07.13W
K.B.= 18 FT.
GARRY HENDRIX- SII SURVEYOR

File Name: 68806003

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

Calculated by DATADRIL's CADD System

Radius of Curvature Method
All Angles are Decimal
Vertical Section Plane: S 7.13 W

TYPE OF SURVEY	MEASURED DEPTH (FT)	INCL ANGLE (DEG)	C R I F T DIRECTION (DEG)	COURSE LENGTH (FT)	TOTAL VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)	VERTICAL SECTION (FT)	DOUBLE SEVERITY (DEG/100')
MSE	0.00	0.00	N 0.00 E	0.00	0.00	0.00 N 0.00 E	0.00	0.00
MSE	87.00	.25	N 69.00 W	83.00	83.00	.06 N .17 W	-0.04	.30
MSE	170.00	.25	N 66.00 W	87.00	170.00	.21 N .52 W	-0.14	.02
MSE	198.00	.25	N 6.00 W	25.00	193.00	.30 N .59 W	-0.20	.89
MSE	212.00	.25	N 59.00 W	14.00	212.00	.35 N .62 W	-0.27	1.59

STATION 007 IS A PROJECTED SURVEY

PROJ	227.00	.25	N 59.00 W	13.00	227.00	.39 N .68 W	-0.30	0.00
MSE	249.00	.50	N 34.00 W	23.00	249.00	.49 N .78 W	-0.35	1.00
MSE	243.00	.50	N 37.00 W	24.00	243.99	1.15 N 1.26 W	-0.99	.03
MSE	438.00	.25	N 25.00 W	23.00	438.99	1.67 N 1.57 W	-1.47	.28
MSE	500.00	.25	N 59.00 W	24.00	509.99	1.98 N 1.84 W	-1.70	.16
MSE	624.00	.25	S 75.00 W	24.00	620.99	2.03 N 2.00 W	-1.74	.01
MSE	719.00	.50	S 35.00 E	23.00	718.99	1.83 N 12.42 W	-1.00	.01
MSE	800.00	.25	S 1.00 W	24.00	800.99	.95 N 2.24 W	-0.97	.03
MSE	807.00	.25	S 63.00 E	24.00	806.99	.62 N 2.04 W	-0.76	.03
MSE	1000.00	0.00	N 0.00 E	24.00	1000.99	.63 N 1.86 W	-0.69	.07
MSE	1094.00	.25	S 74.00 W	20.00	1093.98	.46 N 2.08 W	-0.90	.07
MSE	1088.00	.25	N 8.00 W	25.00	1088.98	.65 N 2.06 W	-0.75	.01
MSE	1080.00	.25	N 37.00 W	24.00	1080.98	1.03 N 2.80 W	-0.70	.07
MSE	1077.00	.25	N 17.00 E	24.00	1076.98	1.41 N 2.88 W	-0.78	.04

DATADRIIL

TERRA RESOURCES INC.
TERRA FEDERAL 22 COM. 1

CHAVES COUNTY, N.M.
TOT#2

TYPE OF SURVEY	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)		VERTICAL SECTION (FT)	DOUBLE SEVERITY (DEG/100')
MMS	1471.00	.25	N 5.00 E	94.00	1470.98	1.82 N	2.50 W	-1.49	.06
MMS	1565.00	.50	N 11.00 E	94.00	1564.98	2.43 N	2.42 W	-2.11	.27
MMS	1659.00	.50	N 15.00 E	94.00	1658.98	3.22 N	2.23 W	-2.92	.04
MMS	1682.00	.50	N 31.00 E	23.00	1681.97	3.41 N	2.15 W	-3.11	.61
MMS	1768.00	.50	N 10.00 E	86.00	1767.97	4.11 N	1.89 W	-3.84	.21
MMS	1861.00	.75	N 4.00 E	93.00	1860.97	5.11 N	1.77 W	-4.85	.28
MMS	1954.00	.50	N 17.00 E	93.00	1953.96	6.11 N	1.59 W	-5.87	.31
MMS	2048.00	.75	N 56.00 E	94.00	2047.95	6.92 N	.99 W	-6.74	.51
MMS	2141.00	.75	N 54.00 E	93.00	2140.95	7.62 N	.91 E	-7.56	.03
MMS	2234.00	1.00	N 47.00 E	93.00	2233.94	8.52 N	1.11 E	-8.59	.29
MMS	2327.00	1.00	N 20.00 E	93.00	2326.92	9.56 N	1.99 E	-10.03	.50
MMS	2421.00	1.00	N 45.00 E	94.00	2420.91	11.23 N	2.87 E	-11.50	.46
MMS	2514.00	.50	N 33.00 E	93.00	2513.90	12.19 N	3.63 E	-12.53	.56
MMS	2607.00	.50	N 29.00 E	93.00	2606.90	12.87 N	4.05 E	-13.28	.64
MMS	2700.00	.50	N 39.00 E	93.00	2699.89	13.54 N	4.50 E	-14.00	.09
MMS	2794.00	.50	N 39.00 E	94.00	2793.89	14.18 N	5.02 E	-14.69	0.00
MMS	2887.00	.50	N 25.00 E	93.00	2886.88	14.87 N	5.45 E	-15.43	.13
MMS	2980.00	.50	N 8.00 E	93.00	2979.88	15.64 N	5.68 E	-16.23	.16
MMS	3073.00	.50	N 4.00 W	93.00	3072.88	16.45 N	5.71 E	-17.03	.11
MMS	3167.00	.25	N 27.00 W	94.00	3166.88	17.04 N	5.54 E	-17.60	.01
MMS	3260.00	.50	N 39.00 W	93.00	3259.87	17.85 N	5.21 E	-18.06	.26
MMS	3353.00	.50	N 52.00 W	93.00	3352.87	18.10 N	4.63 E	-18.55	.12
MMS	3446.00	.75	N 62.00 W	93.00	3445.86	18.57 N	3.78 E	-19.00	.29
MMS	3540.00	.50	N 75.00 W	94.00	3539.86	19.04 N	2.87 E	-19.24	.31
MMS	3633.00	.75	N 84.00 W	93.00	3632.85	19.21 N	1.83 E	-19.29	.25
MMS	3726.00	1.00	S 75.00 W	93.00	3725.84	19.14 N	.42 E	-19.04	.40
MMS	3819.00	1.00	S 70.00 W	93.00	3818.83	19.39 N	1.14 W	-18.41	.15
MMS	3912.00	1.00	S 85.00 W	94.00	3910.81	19.74 N	2.74 W	-17.86	.19
MMS	4006.00	1.00	N 69.00 W	93.00	4005.80	19.86 N	4.37 W	-17.86	.45
MMS	4099.00	.75	N 72.00 W	93.00	4098.79	19.04 N	5.67 W	-18.19	.07
MMS	4192.00	1.00	N 85.00 W	93.00	4191.78	19.20 N	7.06 W	-18.29	.34
MMS	4286.00	.50	S 77.00 W	94.00	4285.77	19.03 N	8.26 W	-18.06	.58

DATADRIL

TERRA RESOURCES INC.
TERRA FEDERAL 22 COM. 1

CHAVES COUNTY, N.M.
TOT#2

TYPE OF SURVEY	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)		VERTICAL SECTION (FT)	DOUBLE SEVERITY (DEG/100')
MMS	4379.00	.50	S 81.00 W	93.00	4378.77	19.08 N	9.08 W	-17.80	.04
MMS	4472.00	.50	S 52.00 W	93.00	4471.76	18.76 N	9.81 W	-17.40	.27
MMS	4565.00	.25	S 39.00 W	93.00	4564.76	18.33 N	10.25 W	-16.92	.28
MMS	4659.00	.25	S 4.00 W	94.00	4658.76	17.96 N	10.39 W	-16.53	.16
MMS	4752.00	.75	S 66.00 E	93.00	4751.76	17.30 N	10.00 W	-15.93	.76
MMS	4845.00	1.75	S 77.00 E	93.00	4844.73	16.66 N	8.08 W	-15.53	1.10
MMS	4938.00	2.50	S 77.00 E	93.00	4937.67	15.89 N	4.72 W	-15.18	.81
MMS	5032.00	2.75	S 69.00 E	94.00	5031.57	14.63 N	.61 W	-14.44	.47
MMS	5125.00	3.25	S 54.00 E	93.00	5124.44	12.31 N	3.66 E	-12.67	1.00
MMS	5218.00	2.50	S 48.00 E	93.00	5217.32	9.38 N	7.28 E	-10.21	.87
MMS	5314.00	2.50	S 38.00 E	76.00	5293.25	6.99 N	9.56 E	-8.11	.52
MMS	5314.00	3.75	E 30.00 E	20.00	5313.22	6.08 N	10.18 E	-7.29	6.70
MMS	5407.00	4.75	S 8.00 W	93.00	5405.96	.56 S	11.47 E	-5.86	3.14
MMS	5500.00	5.25	E 26.00 W	93.00	5498.61	2.28 S	9.11 E	7.09	1.76
MMS	5593.00	6.25	S 28.00 W	93.00	5591.14	18.59 S	4.88 E	15.88	1.10
MMS	5686.00	8.25	S 28.00 W	93.00	5683.39	26.95 S	.63 W	26.82	2.15
MMS	5779.00	9.50	S 26.00 W	93.00	5775.28	35.73 S	7.14 W	40.31	1.38
MMS	5872.00	10.00	S 24.00 W	93.00	5866.93	54.00 S	13.80 W	55.30	.65
MMS	5965.00	12.50	S 19.00 W	93.00	5958.14	70.88 S	20.45 W	72.87	2.88
MMS	6058.00	13.50	S 15.00 W	93.00	6048.78	90.66 S	27.26 W	93.34	1.05
MMS	6151.00	13.75	S 18.00 W	93.00	6139.14	111.43 S	34.21 W	114.80	.37
MMS	6244.00	13.75	S 15.00 W	93.00	6229.47	132.40 S	41.22 W	136.49	.21
MMS	6337.00	13.50	S 20.00 W	93.00	6319.85	153.05 S	48.54 W	157.89	.37
MMS	6430.00	13.25	E 20.00 W	93.00	6410.73	173.26 S	55.89 W	178.86	.27
MMS	6523.00	10.75	E 3.00 E	93.00	6501.29	193.26 S	58.73 W	198.06	5.75
MMS	6616.00	10.50	E 2.00 E	93.00	6592.70	209.39 S	57.98 W	214.96	.37
MMS	6709.00	10.00	E 2.00 W	93.00	6684.21	225.93 S	57.98 W	231.38	.94
MMS	6802.00	9.25	S 4.00 W	93.00	6775.90	241.46 S	58.80 W	246.89	.88
MMS	6895.00	8.25	S 5.00 W	93.00	6867.21	258.63 S	60.28 W	261.07	1.01
MMS	6988.00	8.25	S 9.00 W	93.00	6859.86	268.72 S	62.28 W	274.37	.15
MMS	7081.00	6.50	S 13.00 W	93.00	7052.09	280.44 S	64.53 W	286.28	1.91
MMS	7174.00	6.50	S 12.00 W	93.00	7144.49	293.72 S	66.80 W	296.78	.10
MMS	7267.00	7.00	S 15.00 W	93.00	7236.84	306.35 S	69.36 W	307.60	.81

DATADRI L

TERRA RESOURCES INC.
TERRA FEDERAL 22 COM. 1

CHAVES COUNTY, N.M.
TOT#2

TYPE OF SURVEY	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)		VERTICAL SECTION (FT)	DOBLES SEVERITY (DEG/100')
MMS	7360.00	8.00	S 15.00 W	93.00	7329.05	313.07 S	72.50 W	319.65	1.08
MMS	7453.00	8.00	S 15.00 W	93.00	7421.14	325.57 S	75.85 W	332.47	0.00
MMS	7546.00	8.25	S 17.00 W	93.00	7513.21	338.21 S	79.47 W	345.46	.41
MMS	7639.00	8.75	S 19.00 W	93.00	7605.19	351.28 S	83.72 W	358.95	.62
MMS	7732.00	9.00	S 19.00 W	93.00	7697.07	364.85 S	88.39 W	373.00	.27
MMS	7825.00	9.00	S 20.00 W	93.00	7788.93	378.56 S	93.25 W	387.21	.17
MMS	7918.00	9.50	S 19.00 W	93.00	7880.72	392.65 S	98.24 W	401.81	.56
MMS	7933.00	9.50	S 19.00 W	35.00	7915.24	398.11 S	100.12 W	407.46	0.00

7970 IS A PROJECTED SURVEY

MMS	7970.00	9.50	S 19.00 W	17.00	7932.00	400.77 S	101.03 W	410.21	0.00
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BOTTOM HOLE CLOSURE: 413.30 Feet at S 14.15 Degrees W

SMITH INTERNATIONAL

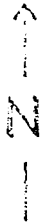
Division of Smith International, Inc.

5 JUL 1988 @ 10:03

TERRA RESOURCES INC.
TERRA FEDERAL 22 COM. 1
CHAVES COUNTY, N.M.
TOT#2

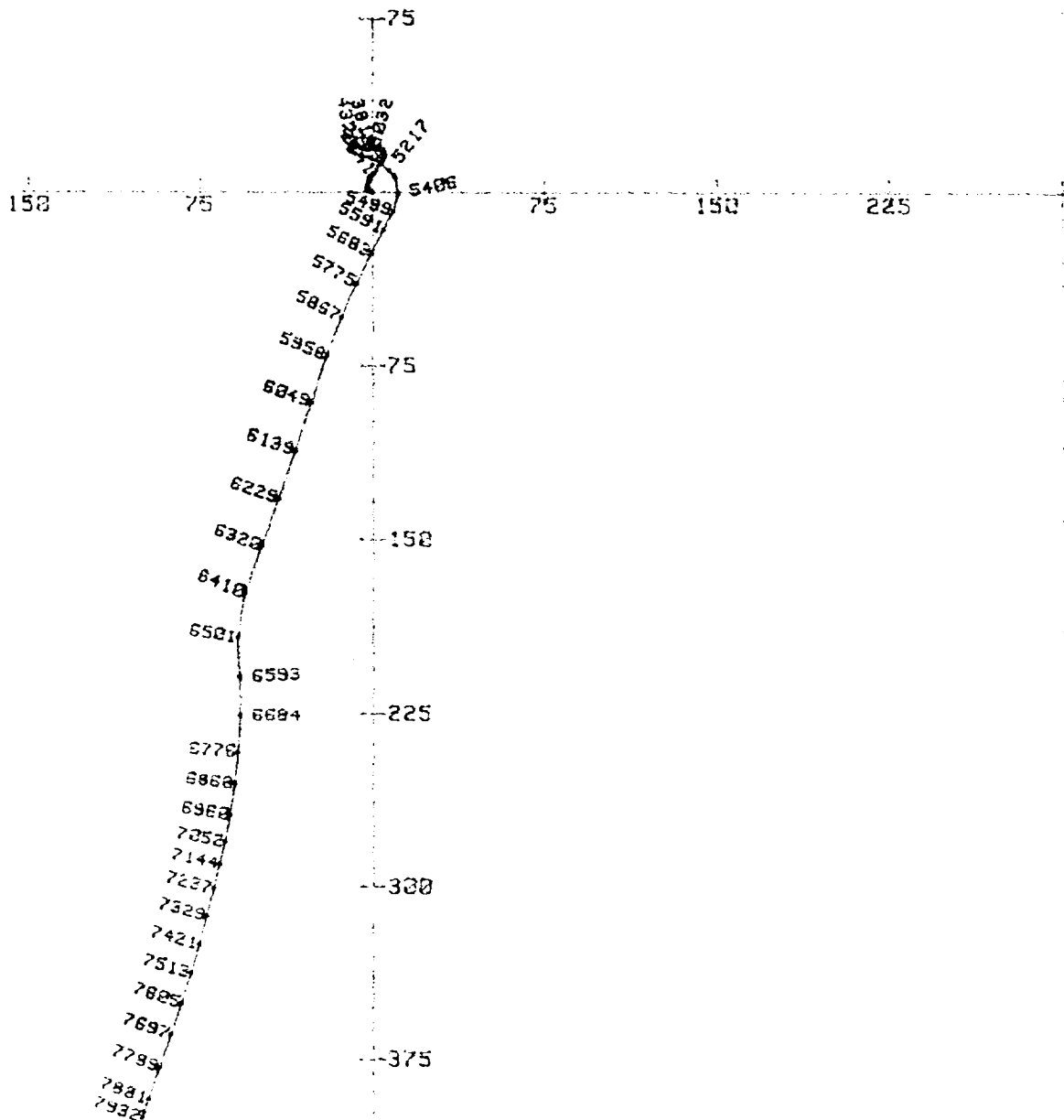
DATADRILL

HORIZONTAL PLOT



SCALE: 75 FEET/INCH

BHL: 413 FEET
@ S 14.15 W
TVD: 7932 FEET
MD: 7970 FEET

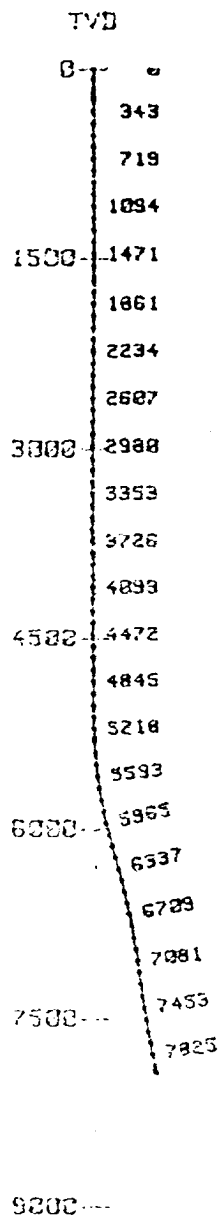


TERRA RESOURCES INC.
TERRA FEDERAL 22 COM. 1
CHAVES COUNTY, N.M.
TOT#2

DATA DRILL

VERTICAL PLOT

SCALE: 1500 FEET/INCH



VERTICAL SECTION

SECTION PLANE: S 7.13 W

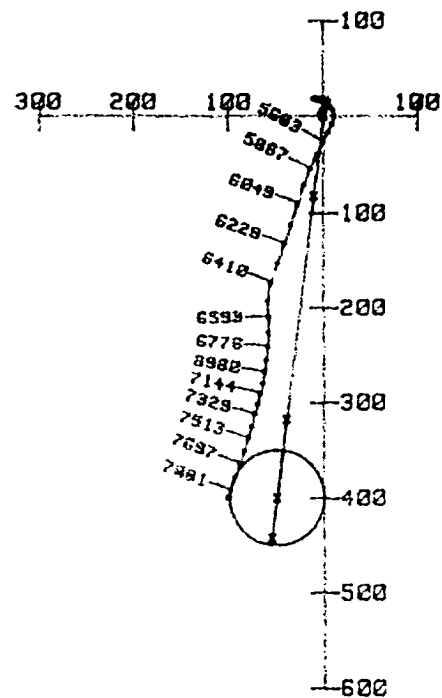
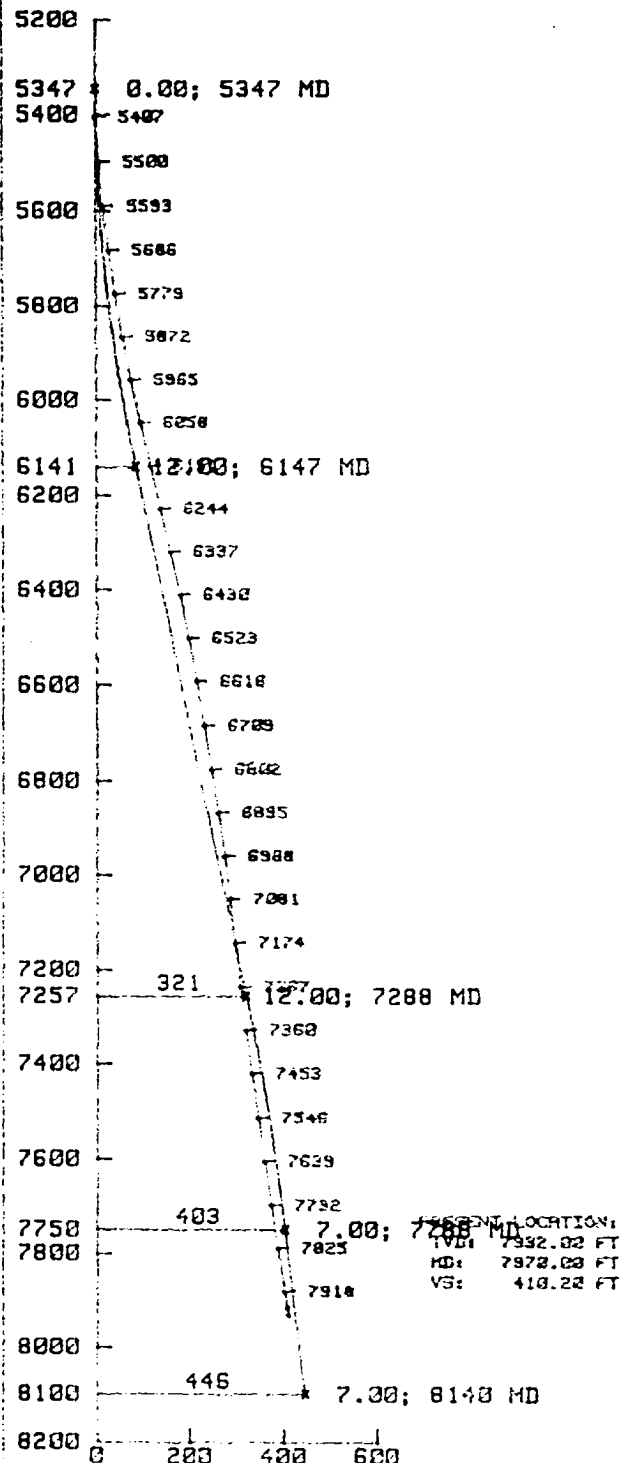
BHL: 413 FEET
@ S 14.15 W
TVD: 7932 FEET
ND: 7970 FEET

TERRA RESOURCES, INC.
TERRA FEDERAL COMM. 22 #1
CHAVES COUNTY, NEW MEXICO
SEC. 22, T 14 S, R 27 E, H#TC

DATA DRILL

VERTICAL PLANE
SCALE: 200 FEET/DIVISION

HORIZONTAL PLANE
SCALE: 100 FEET/DIVISION



VERTICAL SECTION PLANE: S 7.13 W