

TNO PRODUCTION CORP.

WELL #
HOOPER WELL NO.1

LOCATION
LEA COUNTY, NEW MEXICO

DATE
10/8/88, 10/7/88, 11/7/88

JOB TYPE
GYRO, MULTISHOT, MULTISHOT

JOB #
GS-2193, MS-2192, MS-2144

SURVEYOR
MASSEY, MASSEY, EATON

DEPTHS
0 - 11894'

DECL.
6 DEGREES EAST

ELEV.
0'

FILE #
WT-LL-155

FINAL STATION DATA:

NO. 11749.00

TD. 11508.90

NS -898.13

E/W -393.16

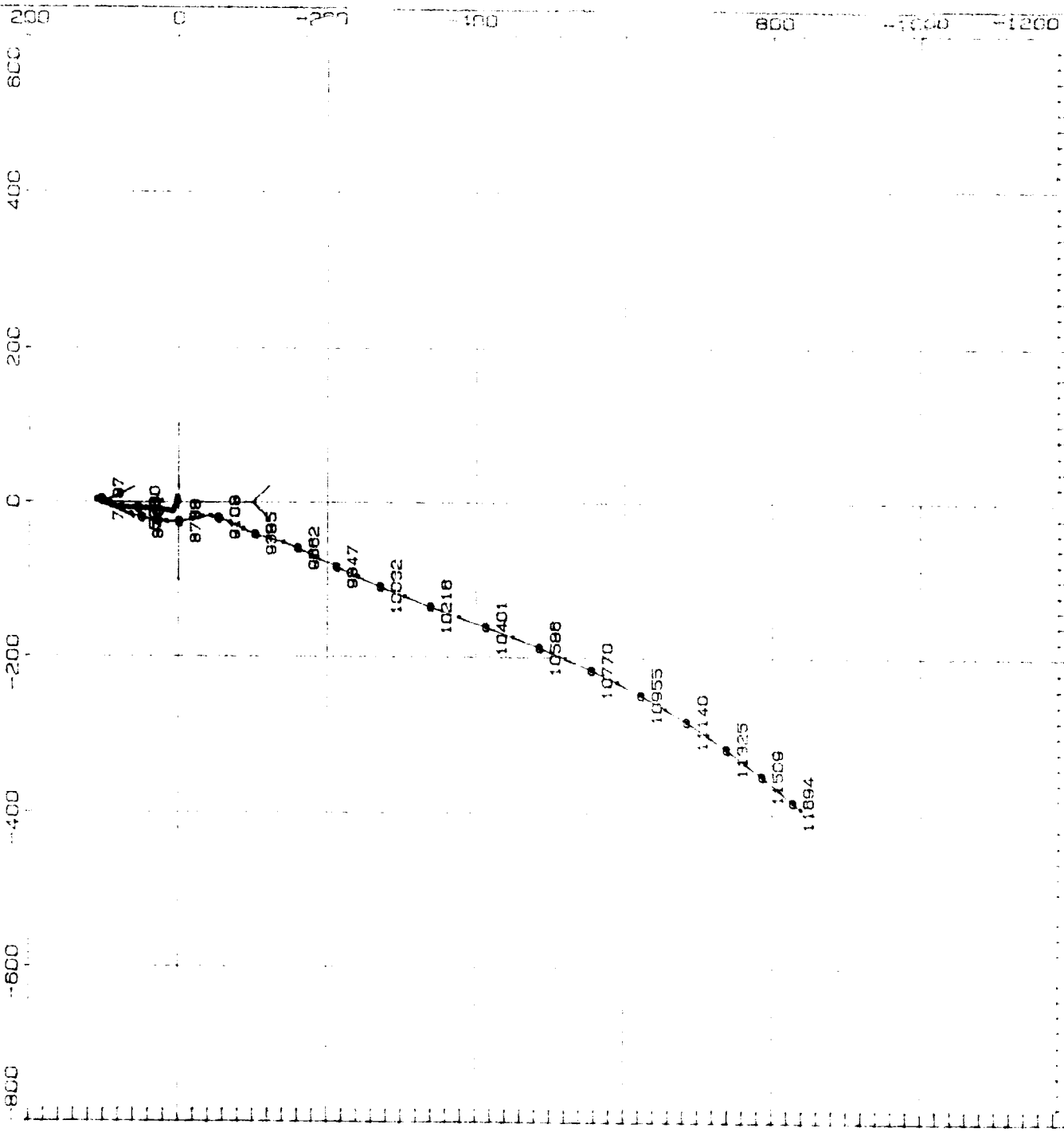
CLOSURE DISTANCE

925.78 FEET

CLOSURE DIRECTION

S 25.13 W

1 IN. = 200 FT.



WEST - EAST

CUSTOMER : TXO PRODUCTION CORP.

WELL # : HOOPER WELL NO.1

LOCATION : LEA COUNTY, NEW MEXICO

DATE : 10/8/88, 10/7/88, 11/7/88

LOG TYPE : GYRO, MULTISHOT, MULTISHOT

LOG # : GS-2133, MS-2132, MS-2144

DRILLER : MASSEY, MASSEY, EATON

DEPTH : 0 - 11694'

DECL. : 9 DEGREES EAST

LEV. : 0'

WELL # : WT-LL155

METHOD : RADIUS OF CURVATURE

SECTION : S19.6W

WELL STATION DATA:

MEASURED	INCL.	HOLE	COURSE	VERTICAL	TRUE
DEPTH	ANGLE	DIRECTION	LENGTH	SECTION	VERTICAL
FEET	DEGS.	DEGS.	FEET	FEET	FEET

11743.00	15.50	S 41.09 W	49.00	1153.70	921.40	308.13 S	373.16 W	925.76	S 25.13 W	0.00
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THIS SURVEY IS CORRECT TO THE
BEST OF MY KNOWLEDGE AND IS
SUPPORTED BY ACTUAL FIELD DATA.

DIG REPRESENTATIVE

RECTANGULAR CLOSURE DUG-LEG
COORDINATES DISTANCE DIRECTION SEVERITY
N/S feet E/W feet DUG/100FT

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TXU PRODUCTION CORP.
HOOVER WELL NO. 4
WT-LL155

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MEASURED	INCL.	HOLE	COURSE	VERTICAL	TRUE	RECTANGULAR	C L O S U R E	DUG-LEG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	SECTION	COORDINATES	DISTANCE	SEVERITY
FEET	DEGS.	DEGS.	FEET	FEET	FEET	N/S	FEET	DEGS.

0.00	0.00	N 83.00 E	0.00	0.00	0.00	0.00 N	0.00	0.00
100.00	.90	N 83.00 E	100.00	100.00	-.35	.10 N	.79	N 83.00 E
200.00	.90	N 65.00 E	100.00	199.98	-1.26	.53 N	2.34	N 77.01 E
300.00	.80	N 70.00 E	100.00	299.97	-2.26	1.09 N	3.81	N 73.32 E
400.00	.40	S 81.00 E	100.00	399.97	-2.70	1.19 N	4.83	N 75.70 E
500.00	.20	N 65.00 E	100.00	499.97	-3.85	1.18 N	5.34	N 77.26 E
600.00	.20	N 90.00 E	100.00	599.97	-2.79	1.19 N	5.65	N 77.90 E
700.00	.10	N 55.00 E	100.00	699.96	-3.14	1.27 N	5.54	N 77.69 E
800.00	.10	N 18.00 E	100.00	799.96	-3.30	1.40 N	6.07	N 76.63 E
900.00	0.00	S 55.00 E	100.00	899.96	-3.39	1.46 N	6.12	N 75.94 E
1000.00	.10	S 73.00 E	100.00	999.96	-3.39	1.46 N	6.19	N 76.55 E
1100.00	.20	S 80.00 E	100.00	1099.96	-3.42	1.46 N	6.42	N 77.42 E
1200.00	.30	N 80.00 E	100.00	1199.96	-3.57	1.40 N	6.85	N 78.21 E
1300.00	.30	N 84.00 W	100.00	1299.96	-4.02	1.78 N	9.22	N 75.75 E
1400.00	.10	S 55.00 E	100.00	1399.96	-4.30	1.99 N	7.45	N 74.53 E
1500.00	.10	S 75.00 W	100.00	1499.96	-4.19	1.87 N	7.42	N 75.49 E
1600.00	.40	N 73.00 W	100.00	1599.96	-4.03	1.89 N	7.05	N 74.45 E
1700.00	.50	N 75.00 W	100.00	1699.96	-3.80	2.10 N	6.39	N 70.21 E
1800.00	.20	S 88.00 W	100.00	1799.95	-3.85	2.16 N	5.85	N 68.29 E
1900.00	.20	N 55.00 W	100.00	1899.95	-3.84	2.26 N	5.58	N 66.11 E
2000.00	.20	N 71.00 W	100.00	1999.95	-3.89	2.42 N	5.37	N 63.23 E
2100.00	.40	N 74.00 W	100.00	2099.95	-3.87	2.58 N	5.01	N 59.04 E
2200.00	.30	N 88.00 W	100.00	2199.95	-3.75	2.67 N	4.56	N 54.11 E
2300.00	.50	N 80.00 W	100.00	2299.95	-3.59	2.74 N	4.06	N 47.53 E
2400.00	.60	S 63.00 W	100.00	2399.94	-3.15	2.60 N	3.32	N 38.41 E

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TXO PRODUCTION CORP.

HOOPER WELL NO.1

WT-LL155

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MEASURED INCL. HOLE COURSE VERTICAL SECTION N/S FEET DEGS. DISTANCE DIRECTION SEVERITY

DEPTH ANGLE DEGS. FEET FEET FEET FEET FEET DEGS. FEET DEGS. DG/100FT

2500.00	.80	N 84.00 W	100.00	2499.94	-2.54	2.38 N	2.54'	N 24.25 E	.44
2600.00	.30	N 84.00 W	100.00	2599.93	-2.32	2.48 N	2.49'	N 01.73 W	.50
2700.00	.80	N 75.00 W	100.00	2699.93	-2.16	2.66 N	1.02 W	N 20.94 W	.51
2800.00	.90	N 78.00 W	100.00	2799.91	-2.01	3.61 N	2.46 W	N 37.30 W	.11
2900.00	.90	N 75.00 W	100.00	2899.90	-1.84	3.37 N	3.99 W	N 41.77 W	.05
3000.00	.40	N 26.00 W	100.00	2999.96	-2.21	4.07 N	4.84 W	N 49.90 W	.71
3100.00	.70	N 46.00 W	100.00	3099.89	-2.75	4.85 N	5.40 W	N 40.09 W	.35
3200.00	.80	N 55.00 W	100.00	3199.80	-3.19	5.67 N	6.41 W	N 40.53 W	.16
3300.00	1.00	N 67.00 W	100.00	3299.87	-3.40	5.39 N	7.80 W	N 50.58 W	.28
3400.00	.90	N 76.00 W	100.00	3399.80	-4.34	6.63 N	9.38 W	N 53.71 W	.15
3500.00	1.00	N 71.00 W	100.00	3499.84	-5.25	7.36 N	10.92 W	N 56.15 W	.13
3575.00	.40	N 51.00 W	75.00	3574.44	-3.40	7.69 N	11.72 W	N 56.46 W	.65
3646.00	.50	N 63.00 W	71.00	3645.94	-3.76	8.28 N	12.04 W	N 53.92 W	.43
3739.00	.20	N 20.00 E	93.00	3739.06	-4.31	6.84 N	11.98 W	N 53.59 W	.36
3832.00	.80	N 21.00 E	93.00	3832.06	-5.12	8.60 N	11.70 W	N 55.21 W	.53
3925.00	.90	N 17.00 E	93.00	3925.06	-6.00	10.90 N	11.25 W	N 43.95 W	.12
4018.00	1.30	N 03.00 W	93.00	4017.99	-6.23	12.66 N	11.93 W	N 41.35 W	.59
4112.00	1.30	N 10.00 E	94.00	4111.98	-10.27	14.72 N	10.90 W	N 38.10 W	.31
4205.00	1.40	N 20.00 E	93.00	4204.75	-12.45	16.90 N	10.33 W	N 31.44 W	.27
4298.00	1.00	N 04.00 E	93.00	4297.73	-14.38	18.80 N	9.93 W	N 27.94 W	.56
4391.00	2.00	N 12.00 E	93.00	4396.70	-16.76	21.21 N	9.59 W	N 24.34 W	1.10
4484.00	2.00	N 11.00 E	93.00	4483.64	-19.98	24.39 N	8.94 W	N 20.14 W	.04
4578.00	2.00	N 09.00 E	94.00	4577.58	-23.21	27.62 N	8.38 W	N 16.87 W	.07
4671.00	1.80	N 04.00 E	93.00	4670.53	-26.21	30.68 N	6.83 W	N 14.65 W	.28
4764.00	2.10	N 02.00 W	93.00	4763.43	-29.21	33.85 N	7.97 W	N 13.25 W	.39

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TXO PRODUCTION CORP.
HOOPER WELL NO. 1
WI-LL155

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MEASURED	INCL.	HOLE	COURSE	VERTICAL	SECTION	RECTANGULAR	CLOSURE	DUG-LEG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	FEET	COORDINATES	DISTANCE	SEVERITY
FEET	DEGS.	DEGS.	FEET	FEET	FEET	N/S	E/W	DEGS.
4857.00	2.50	N 02.00 E	93.00	4856.40	-32.73	37.58 N	7.97 W	38.41' N 11.90 W
4950.00	2.20	N 02.00 E	93.00	4949.32	-36.36	41.39 N	7.84 W	42.12' N 10.72 W
5044.00	2.30	N 03.00 E	94.00	5043.25	-39.89	45.07 N	7.68 W	45.72' N 09.67 W
5137.00	2.50	N 01.00 E	93.00	5136.17	-43.80	48.97 N	7.54 W	49.54' N 08.75 W
5230.00	2.70	N 07.00 E	93.00	5229.07	-47.66	53.17 N	7.25 W	53.66' N 07.76 W
5323.00	2.20	N 03.00 E	93.00	5321.79	-51.51	57.13 N	6.90 W	57.55' N 06.89 W
5416.00	2.10	N 04.00 W	93.00	5414.92	-54.79	60.62 N	6.93 W	61.01' N 05.52 W
5510.00	2.10	N 01.00 W	94.00	5508.66	-57.97	64.66 N	7.08 W	64.45' N 05.31 W
5603.00	1.80	N 01.00 W	93.00	5601.81	-60.93	67.22 N	7.14 W	67.60' N 06.06 W
5696.00	1.80	N 07.00 E	93.00	5694.76	-63.71	70.49 N	6.98 W	70.49' N 05.69 W
5789.00	1.70	N 04.00 E	93.00	5787.72	-66.89	72.97 N	6.71 W	73.27' N 05.26 W
5882.00	1.50	N 01.00 W	93.00	5880.08	-69.95	75.85 N	6.64 W	75.85' N 05.02 W
5975.00	1.40	N 03.00 W	94.00	5974.67	-71.17	77.94 N	6.73 W	78.23' N 04.93 W
5969.00	1.40	N 08.00 W	93.00	5967.67	-73.22	80.20 N	6.94 W	80.66' N 04.95 W
5162.00	1.30	N 00.00 E	93.00	5160.60	-75.21	82.38 N	7.10 W	82.69' N 04.92 W
6200.00	1.20	N 03.00 E	93.00	6203.50	-77.19	84.40 N	6.96 W	84.69' N 04.71 W
5343.00	1.50	N 47.00 E	93.00	5346.55	-79.31	86.31 N	5.96 W	86.52' N 03.95 W
5442.00	1.60	N 44.00 E	94.00	5446.52	-81.69	88.09 N	4.15 W	88.19' N 02.70 W
5535.00	1.50	N 47.00 E	93.00	5533.48	-83.84	89.82 N	2.33 W	89.95' N 01.48 W
6625.00	1.70	N 41.00 E	93.00	6626.44	-86.18	91.66 N	.49 W	91.66' N 00.31 W
6721.00	1.10	N 19.00 E	93.00	6719.42	-88.40	93.61 N	.64 E	93.62' N 00.39 E
5814.00	1.20	N 08.00 E	93.00	5812.40	-90.25	95.43 N	1.07 E	95.43' N 00.64 E
6908.00	1.40	N 17.00 E	94.00	6906.37	-92.37	97.51 N	1.53 E	97.52' N 00.90 E
7061.00	1.30	N 19.00 E	93.00	7059.35	-94.56	99.59 N	2.21 E	99.61' N 01.27 E
7094.00	.90	N 41.00 E	93.00	7092.33	-96.31	101.13 N	3.10 E	101.17' N 01.76 E

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TXD PRODUCTION CORP.

HOOPER WELL NO.1

WT-LL155

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06/00/06

MEASURED INCL. HOLE COURSE VERTICAL VERTICAL RECTANGULAR C L O U S U R E LOG-LOG
DEPTH ANGLE DIRECTION LENGTH DEPTH SECTION COORDINATES DISTANCE DIRECTION SEVERITY
FEET DEGS. DEGS. FEET FEET FEET N/S FEET E/W FEET DEGS. S 06/100FT

7187.00	70	N 42.00 E	93.00	7185.32	-97.51	102.10 N	3.96 E	102.18'	N 02.22 E	.22
7280.00	20	N 45.00 E	93.00	7278.32	-98.18	102.63 N	4.46 E	102.73'	N 02.49 E	.54
7374.00	20	N 21.00 E	94.00	7372.32	-98.50	102.90 N	4.64 E	103.01'	N 02.58 E	.09
7467.00	70	N 12.00 W	93.00	7465.31	-99.19	103.62 N	4.70 E	103.73'	N 02.59 E	.59
7560.00	90	N 04.00 W	93.00	7558.31	-100.34	104.91 N	4.52 E	105.00'	N 02.41 E	.25
7653.00	1.00	N 06.00 E	93.00	7651.29	-101.77	106.45 N	4.40 E	106.54'	N 02.49 E	.13
7746.00	1.00	N 09.00 E	93.00	7744.23	-103.34	108.06 N	4.59 E	108.16'	N 02.43 E	.17
7840.00	1.00	N 16.00 E	94.00	7838.20	-104.97	109.66 N	4.97 E	109.77'	N 02.60 E	.12
7907.00	1.25	N 27.00 W	67.00	7905.25	-105.74	110.67 N	4.39 E	110.76'	N 02.62 E	2.45
8000.00	2.50	S 31.00 W	93.00	7998.30	-105.81	101.89 N	1.77 E	109.58'	N 03.53 E	2.61
8092.00	8.00	S 17.00 W	92.00	8089.78	-95.44	101.89 N	1.64 W	101.91'	N 00.92 W	5.97
8184.00	8.00	S 12.00 W	92.00	8180.88	-82.65	87.83 N	5.38 W	89.81'	N 03.44 W	6.71
8277.00	8.50	S 21.00 W	93.00	8272.92	-69.31	77.03 N	9.73 W	77.63'	N 07.20 W	1.32
8369.00	9.25	S 18.00 W	92.00	8363.82	-55.11	53.66 N	14.46 W	55.29'	N 12.30 W	1.76
8461.00	10.25	S 15.00 W	92.00	8454.45	-39.50	38.72 N	18.89 W	52.35'	N 21.19 W	1.22
8554.00	10.00	S 11.00 W	93.00	8546.64	-23.30	32.79 N	22.57 W	34.91'	N 34.56 W	.89
8645.00	11.00	S 04.00 W	92.00	8635.50	-6.94	16.19 N	24.75 W	29.37'	N 59.63 W	1.05
8738.00	10.50	S 05.00 E	92.00	8725.80	9.15	.96 S	24.60 W	24.62'	S 87.76 W	1.90
8831.00	9.75	S 17.00 E	93.00	8819.45	23.21	16.98 S	21.49 W	27.39'	S 51.68 W	2.40
8923.00	7.75	S 14.00 E	92.00	8909.36	34.65	30.46 S	17.75 W	35.26'	S 36.23 W	2.23
9016.00	7.00	S 06.00 W	93.00	9001.59	45.54	42.31 S	16.92 W	45.57'	S 21.80 W	2.86
9108.00	8.00	S 20.00 W	92.00	9092.80	57.44	53.98 S	19.62 W	57.44'	S 19.97 W	2.26
9200.00	12.00	S 25.00 W	92.00	9183.30	73.38	58.74 S	25.73 W	73.39'	S 20.52 W	4.45
9293.00	12.00	S 25.00 W	93.00	9274.37	92.64	85.26 S	35.90 W	92.60'	S 21.45 W	0.00
9385.00	10.50	S 20.00 W	92.00	9364.50	110.55	102.84 S	40.76 W	110.62'	S 21.62 W	1.94

TXU PRODUCTION CORP.
HOOVER WELL NO.1
WT-LL155

MEASURED INCL. HOLE COURSE VERTICAL RECTANGULAR C L O S U R E DUG-LEG
DEPTH ANGLE DIRECTION LENGTH DEPTH SECTION COORDINATES DISTANCE DIRECTION SEVERITY
FEET DEGS. FEET FEET FEET N/S FEET DEGS. FEET DEGS. FEET DEGS.

9472.00	12.25	S	14.00	W	92.00	9454.77	120.67	120.10	S	46.07	W	120.71	S	20.97	W	2.29
9570.00	13.50	S	17.00	W	93.00	9545.43	149.34	140.15	S	51.60	W	149.35	S	20.21	W	1.52
9662.00	14.00	S	26.00	W	92.00	9634.79	171.17	160.47	S	59.61	W	171.18	S	20.38	W	2.39
9754.00	19.00	S	25.00	W	92.00	9722.98	197.15	184.05	S	70.85	W	197.22	S	21.06	W	5.44
9847.00	20.00	S	24.00	W	93.00	9810.64	228.08	212.30	S	83.73	W	228.21	S	21.52	W	1.13
9939.00	20.00	S	24.00	W	92.00	9857.09	259.46	241.04	S	96.53	W	259.65	S	21.82	W	0.00
10032.00	22.00	S	22.00	W	93.00	9983.91	272.72	371.72	S	109.55	W	292.97	S	21.93	W	2.28
10124.00	22.75	S	21.00	W	92.00	10005.97	322.92	304.30	S	122.38	W	327.99	S	21.91	W	.91
10216.00	25.00	S	20.00	W	92.00	10153.11	364.95	339.18	S	135.42	W	365.21	S	21.77	W	2.92
10309.00	25.75	S	19.00	W	93.00	10232.13	404.10	371.17	S	148.73	W	405.04	S	21.54	W	.93
10401.00	24.25	S	19.00	W	92.00	10320.51	443.63	413.51	S	161.38	W	443.88	S	21.32	W	1.63
10493.00	25.25	S	20.00	W	92.00	10404.06	482.20	448.00	S	174.24	W	482.38	S	21.17	W	1.18
10585.00	24.00	S	21.00	W	93.00	10488.60	520.94	486.11	S	187.81	W	521.13	S	21.12	W	1.42
10678.00	24.00	S	22.00	W	92.00	10573.65	559.64	520.92	S	201.53	W	558.59	S	21.15	W	.44
10770.00	25.33	S	23.00	W	93.00	10656.35	597.44	555.17	S	216.12	W	596.69	S	21.24	W	1.18
10862.00	23.00	S	25.00	W	93.00	10741.62	634.12	590.72	S	231.51	W	634.47	S	21.49	W	2.33
10953.00	24.00	S	26.00	W	92.00	10825.69	670.64	623.83	S	247.30	W	671.06	S	21.62	W	1.11
11047.00	22.33	S	29.00	W	92.00	10910.20	706.43	655.88	S	263.98	W	707.01	S	21.92	W	2.29
11140.00	21.00	S	31.00	W	93.00	10996.94	740.18	685.56	S	281.12	W	740.96	S	22.30	W	1.56
11232.00	19.75	S	33.00	W	92.00	11082.99	771.42	712.72	S	298.09	W	772.55	S	22.70	W	1.56
11325.00	20.00	S	34.00	W	93.00	11170.45	802.11	739.88	S	315.54	W	803.62	S	23.12	W	.45
11417.00	18.50	S	37.00	W	92.00	11257.30	831.27	753.77	S	333.15	W	833.27	S	23.57	W	1.95
11509.00	18.25	S	36.00	W	92.00	11344.61	859.02	787.09	S	350.40	W	861.56	S	24.00	W	.44
11602.00	16.75	S	41.00	W	93.00	11433.30	885.47	808.96	S	367.81	W	888.65	S	24.43	W	2.28
11694.00	15.50	S	41.00	W	92.00	11521.60	909.26	828.25	S	384.57	W	913.18	S	24.91	W	1.36

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WT-1155

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FINAL STATION IS PROJECTED

CLOSURE DISTANCE = 925.76 MET.
CLOSURE DIRECTION = 335.13 °

Paul Robert

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