

**SUB-SURFACE
DIRECTIONAL
SURVEY
REPORT**

AMERIND OIL COMPANY

COMPANY

MEYERS WELL NO. 3 N 33-16-37

WELL NAME

LEA COUNTY, NEW MEXICO

STATE AND COUNTY

Unit N, Section 33, T16S, R37E

FIELD REPORT

HOBBS OFFICE
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AMERIND OIL COMPANY

WELL #
MEYERS WELL NO. 9

LOCATION
LEA COUNTY, NEW MEXICO

DATE
12/7/87

JOB TYPE
GYRO MULTISHOT, MAGNETIC MULTISHOT

JOB #
GS-1000, MS-1005

SURVEYOR
RICK EATON

DEPTHS
0' - 4150' - 4150' - 11203'

DECL.
0 DEGREES EAST

ELEV.
0'

FILE #
VT-HHS

FINAL STATION DATA

MD. 11203.00

TWD. 11257.24

N/S 191.73

EW -27.31

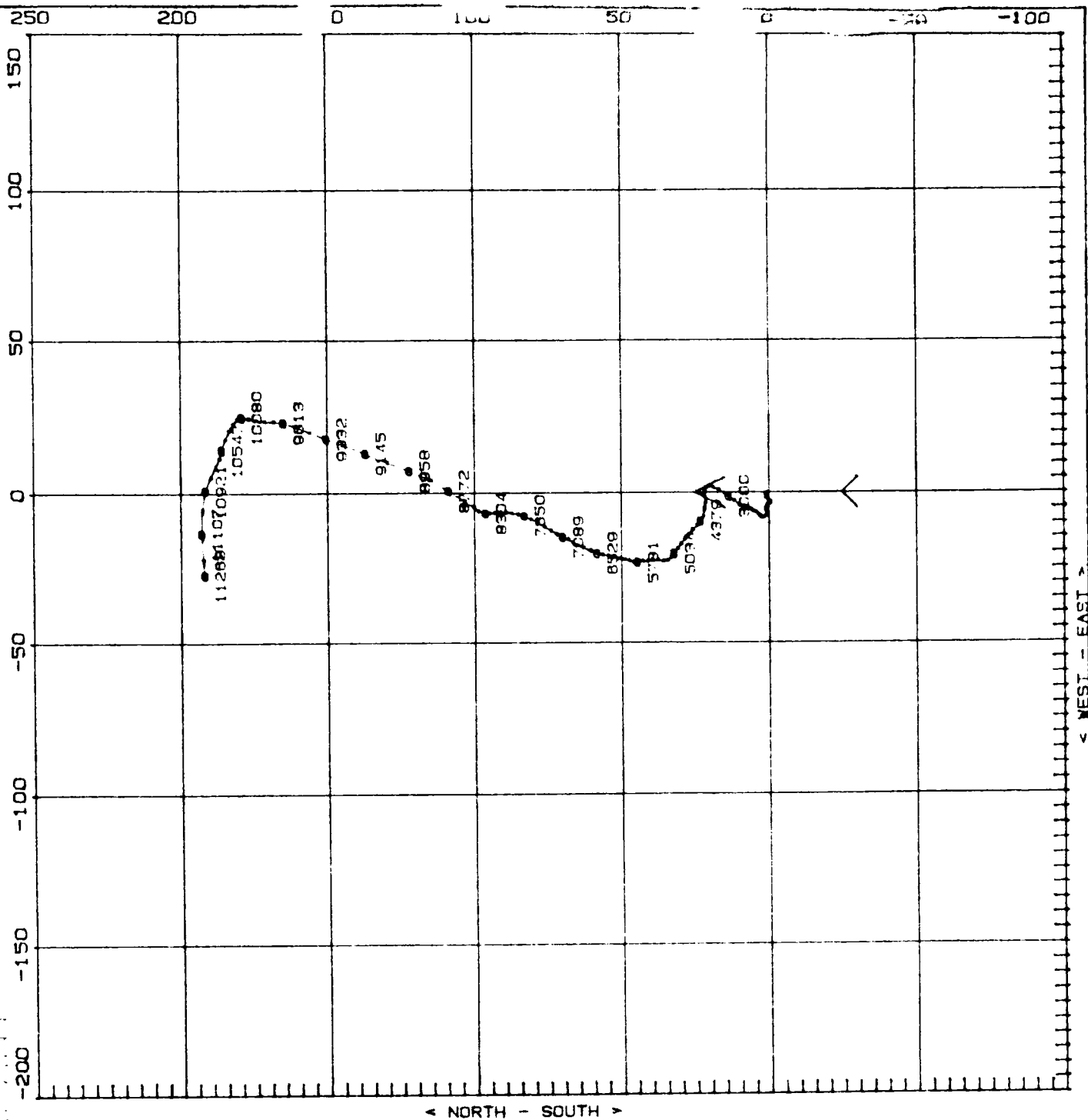
CLOSURE DISTANCE

193.87 FEET

CLOSURE DIRECTION

N 8.11 W

1 IN. = 50 FT.



CUSTOMER :AMERIND OIL COMPANY

WELL # :MEYERS WELL NO.3

LOCATION :LEA COUNTY, NEW MEXICO

DATE :12/7/87

LOG TYPE :GYRO MULTISHOT, MAGNETIC MULTISHOT

LOG # :GS-1966, MS-1965

SURVEYOR :RICK EATON

WT HS :0' - 4150' , 4150' - 11263'

DICL. :9 DEGREES EAST

ELEV. :0'

FILE # :WT-HH5

METHOD :RADIUS OF CURVATURE

SECTION :0

FINAL STATION DATA!

MEASURED INCL. : HOLE : CORREL : VERTICAL : RECTANGULAR : U.T.O.S.U.R.E. : DUG-LESS
DEPTH : ANGLE : DIRECTION : LENGTH : DEPTH : COORDINATES : DISTANCE : DIRECTION : SEVERITY
FEET : DEGS. : DEGS. : FEET : FEET : N/E : FEET : FEET : DUG : DUG/1000

11263.00

4.60

S 84.00 W

107.24

101.23 N

27.31 W

193.67

N 0.11 W

1.11

THIS SURVEY IS CORRECT TO THE
BEST OF MY KNOWLEDGE AND IS
SUPPORTED BY ACTUAL FIELD DATA.
DIG REPRESENTATIVE

AMELIND OIL COMPANY
MEYERS WELL NO.3
WT-HHS

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MEASURED	INCL.	HOLE	COURSE	VERTICAL	REL TANGULAR	C L O S U R E	DUG-LOG
DEPTH	ANGLE	DIRECTION	LENGTH	DEPTH	CURVATURE	DISTANCE	REVERT
FEET	DEGS.	DIGS.	FEET	FEET	N/S	FEET	DIGS.
0.00	0.00	S * * * * *	0.00	0.00	0.00 N	0.00	N 00.00 E
100.00	.30	N 12.00 W	100.00	100.00	.20 N	.25	N 17.00 W
200.00	.30	N 45.00 W	100.00	200.00	.60 N	.70	N 26.30 W
300.00	.30	N 75.00 W	100.00	300.00	.90 N	1.24	N 30.90 W
400.00	.60	S 53.00 W	100.00	399.97	.80 N	1.75	N 52.13 W
500.00	.50	S 42.00 W	100.00	499.99	.20 N	2.31	N 84.50 W
600.00	.40	S 58.00 W	100.00	599.99	.30 S	2.90	S 84.05 W
700.00	.20	S 33.00 W	100.00	699.93	.60 S	3.30	S 77.92 W
800.00	.20	N 40.00 W	100.00	799.94	.70 S	3.61	S 78.31 W
900.00	.20	N 53.00 E	100.00	899.93	.40 S	3.55	S 93.15 W
1000.00	.20	N 20.00 W	100.00	999.98	.11 S	3.47	S 88.24 W
1100.00	.50	N 70.00 W	100.00	1099.98	.25 N	3.95	N 86.37 W
1200.00	.40	N 50.00 W	100.00	1199.90	.54 N	4.70	N 83.30 W
1300.00	.40	N 70.00 W	100.00	1299.98	.80 N	5.30	N 89.89 W
1400.00	.20	S 50.00 W	100.00	1399.97	.70 N	5.80	N 87.35 W
1500.00	.30	S 45.00 W	100.00	1499.97	.10 N	5.14	N 87.30 W
1600.00	.40	N 70.00 W	100.00	1599.92	.32 N	5.50	N 83.23 W
1700.00	.20	N 30.00 W	100.00	1699.90	.70 N	6.00	N 80.60 W
1800.00	.40	N 10.00 W	100.00	1799.95	1.15 N	6.37	N 75.00 W
1900.00	.30	N 20.00 W	100.00	1899.95	2.14 N	6.67	N 70.73 W
2000.00	.20	N 60.00 E	100.00	1999.96	2.50 N	8.67	N 73.15 W
2100.00	.80	N 20.00 E	100.00	2099.95	3.06 N	8.19	N 60.00 W
2200.00	.30	N 50.00 E	100.00	2199.90	3.60 N	7.80	N 61.87 W
2300.00	.50	N 20.00 E	100.00	2299.94	4.17 N	7.60	N 56.90 W
2400.00	.60	N 20.00 E	100.00	2399.94	5.06 N	7.87	N 50.13 W

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2500.00	\$	N	45.00	E	\$	100.00	\$	2699.94	\$	5.86	N					5.54	W	\$	8.07'	N	43.41	W	\$	.20
2600.00	\$	N	16.03	E	\$	100.00	\$	2599.93	\$	5.98	N					4.94	W	\$	6.40'	N	35.54	W	\$	.82
2700.00	\$	N	15.00	E	\$	100.00	\$	2499.91	\$	8.34	N					4.53	W	\$	7.40'	N	29.55	W	\$	.10
2800.00	\$	N	31.00	E	\$	100.0	\$	2399.90	\$	9.95	N					3.89	W	\$	10.57'	N	21.53	W	\$	.40
2900.00	\$	N	35.00	E	\$	100.00	\$	2299.81	\$	11.63	N					2.70	W	\$	11.97'	N	13.01	W	\$	.31
3000.00	\$	N	43.00	E	\$	100.00	\$	2199.57	\$	13.37	N					1.30	W	\$	13.44'	N	05.67	W	\$	.35
3100.00	\$	N	30.03	E	\$	100.00	\$	2099.94	\$	14.99	N					.14	W	\$	14.97'	N	00.52	W	\$	.20
3200.00	\$	N	20.00	E	\$	100.00	\$	2199.81	\$	16.87	N					.92	E	\$	16.92'	N	03.12	E	\$	.11
3300.00	\$	N	20.00	E	\$	100.00	\$	2299.79	\$	18.64	N					1.70	E	\$	18.72'	N	05.21	E	\$	.43
3400.00	\$	N	04.00	E	\$	100.00	\$	2399.73	\$	20.25	N					2.05	E	\$	20.36'	N	00.76	E	\$	.25
3500.00	\$	N	40.00	W	\$	100.00	\$	2499.97	\$	21.28	N					1.60	E	\$	21.31'	N	04.39	E	\$	.95
3600.00	\$	S	87.00	W	\$	100.00	\$	2599.37	\$	21.56	N					.91	E	\$	21.58'	N	02.43	E	\$	.44
3700.00	\$	N	54.00	W	\$	100.00	\$	2699.77	\$	21.73	N					.27	E	\$	21.73'	N	00.68	E	\$	.46
3800.00	\$	S	63.00	W	\$	100.00	\$	2799.73	\$	21.81	N					.41	W	\$	21.81'	N	01.07	W	\$	.52
3900.00	\$	S	71.00	W	\$	100.00	\$	2899.75	\$	21.41	N					1.74	W	\$	21.40'	N	04.66	W	\$	.43
4000.00	\$	S	82.00	W	\$	100.00	\$	2999.74	\$	21.14	N					3.30	W	\$	21.41'	N	07.00	W	\$	.11
4100.00	\$	N	53.00	W	\$	113.00	\$	3099.71	\$	21.45	N					4.27	W	\$	21.93'	N	13.84	W	\$	.64
4200.00	\$	S	92.00	W	\$	50.00	\$	3199.32	\$	21.53	N					5.72	W	\$	22.39'	N	14.81	W	\$	1.12
4250.00	\$	N	75.00	W	\$	146.00	\$	3299.70	\$	21.80	N					3.93	W	\$	23.29'	N	19.93	W	\$	.31
4300.00	\$	N	43.00	W	\$	93.00	\$	3399.59	\$	22.77	N					9.50	W	\$	24.70'	N	22.82	W	\$	.59
4400.00	\$	N	51.00	W	\$	94.00	\$	3492.60	\$	24.10	N					11.14	W	\$	26.55'	N	24.81	W	\$	.13
4500.00	\$	N	43.00	W	\$	93.00	\$	3563.64	\$	25.54	N					12.60	W	\$	28.51'	N	26.41	W	\$	.20
4600.00	\$	N	40.00	W	\$	94.00	\$	3659.61	\$	27.07	N					17.20	W	\$	30.54'	N	27.72	W	\$	.12
4700.00	\$	N	52.00	W	\$	93.00	\$	3752.59	\$	28.34	N					19.76	W	\$	32.42'	N	29.09	W	\$	.14
4800.00	\$	N	53.00	W	\$	94.00	\$	3843.57	\$	29.53	N					17.32	W	\$	34.24'	N	30.39	W	\$	.02

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MEASURED DEPTH FEET	INCL. ANGLE DEGS.	RULE	COURSE	TRUE	REL. TANGULAR	U. L. O. S. U. R. E.	DUG-LED SEVERITY
		DIRECTION	LENGTH	DEPTH	REL. TANGULAR	DISTANCE	DUG-LED SEVERITY
		DUGS.	FEET	FEET	N/S	FEET	DUG-LED SEVERITY
4940.00	1.20	N 59.00 W	93.00	4939.56	31.51 N	36.00' N 31.73 W	.14
5034.00	1.10	N 47.00 W	94.00	5033.56	31.76 N	37.76' N 32.76 W	.28
5127.00	1.10	N 40.00 W	93.00	5127.51	31.96 N	39.49' N 33.42 W	.02
5229.00	1.30	N 34.00 W	93.00	5219.59	31.12 N	41.02' N 33.71 W	.41
5314.00	1.10	N 19.00 E	94.00	5313.19	31.51 N	42.41' N 32.88 W	.97
5407.00	1.20	N 10.00 E	93.00	5405.47	31.44 N	43.75' N 31.16 W	.12
5501.00	1.00	N 14.00 W	94.00	5500.45	31.23 N	45.32' N 30.00 W	.53
5594.00	1.10	N 04.00 E	93.00	5593.43	40.82 N	45.87' N 29.10 W	.37
5688.00	1.00	N 11.00 W	94.00	5687.42	42.53 N	48.42' N 20.30 W	.31
5781.00	1.00	N 13.00 W	93.00	5780.40	44.22 N	49.90' N 27.77 W	.04
5875.00	.80	N 19.00 E	94.00	5874.39	45.10 N	51.24' N 26.94 W	.57
5968.00	1.10	N 16.00 E	93.00	5967.38	47.15 N	52.35' N 25.76 W	.33
6051.00	1.00	N 07.00 E	93.00	6050.36	48.82 N	53.71' N 24.66 W	.21
6155.00	1.20	N 23.00 E	94.00	6154.35	50.15 N	55.12' N 23.48 W	.37
6248.00	1.10	N 01.00 E	93.00	6247.33	51.36 N	56.60' N 22.32 W	.54
6342.00	1.20	N 11.00 E	94.00	6341.31	50.22 N	58.22' N 21.35 W	.19
6435.00	1.20	N 11.00 E	93.00	6434.29	56.13 N	59.07' N 20.36 W	0.00
6529.00	1.20	N 19.00 E	94.00	6528.27	55.53 N	61.49' N 19.30 W	.18
6622.00	1.70	N 24.00 E	93.00	6621.24	60.22 N	63.29' N 17.90 W	.55
6716.00	1.50	N 10.00 E	94.00	6715.20	62.60 N	65.34' N 16.44 W	.26
6809.00	1.20	N 20.00 E	93.00	6808.18	64.57 N	67.05' N 15.24 W	.39
6903.00	1.10	N 36.00 E	94.00	6902.16	56.27 N	68.32' N 14.00 W	.20
6995.00	1.20	N 27.00 E	93.00	6994.14	61.80 N	69.64' N 12.97 W	.22
7089.00	1.20	N 23.00 E	93.00	7088.12	69.53 N	71.20' N 12.03 W	.11
7183.00	1.50	N 23.00 E	94.00	7182.09	71.55 N	72.99' N 11.00 W	.64

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MEASURED DEPTH FEET	INCL. ANGLE DEGS.	HOLE DIRECTION DEGS.	CORRE LENGTH FEET	VERTICAL DEPTH FEET	RECTANGULAR CURVED DISTANCE FEET	C L O S U R E DISTANCE FEET	SEVERITY DUG-LEG
7276.00	1.50	N 30.00 E	93.00	9275.06	73.75 N	24.85 N 09.79 W	.14
7370.00	1.60	N 30.00 E	94.00	9369.03	75.91 N	26.75 N 09.51 W	.11
7463.00	1.70	N 26.00 E	93.00	9461.97	78.24 N	30.80 N 07.31 W	.24
7557.00	1.50	N 30.00 E	91.00	9550.92	80.52 N	30.90 N 06.20 W	.30
7650.00	1.50	N 27.00 E	93.00	9640.92	82.69 N	33.00 N 05.20 W	.34
7744.00	1.40	N 30.00 E	91.00	9731.87	84.89 N	35.20 N 04.73 W	.28
7837.00	1.30	N 15.00 E	93.00	9828.86	87.13 N	37.30 N 04.31 W	.15
7930.00	1.10	N 07.00 E	93.00	9926.84	89.05 N	39.20 N 04.10 W	.07
8024.00	1.40	N 01.00 W	94.00	10023.82	91.11 N	41.30 N 04.00 W	.33
8117.00	1.10	N 09.00 W	93.90	10115.80	93.13 N	43.30 N 04.01 W	.36
8211.00	.80	N 00.00 E	94.00	10209.78	94.60 N	44.90 N 04.00 W	.35
8304.00	.70	N 15.00 W	93.00	10302.79	95.59 N	46.10 N 04.00 W	.29
8491.00	1.00	N 30.00 E	100.00	10399.76	98.19 N	48.50 N 03.43 W	.49
8585.00	1.40	N 30.00 E	93.00	10496.73	99.36 N	49.90 N 02.69 W	.57
8678.00	3.30	N 20.00 E	92.00	10593.69	100.13 N	49.10 N 01.41 W	2.05
8772.00	4.40	N 30.00 E	91.00	10690.49	100.50 N	49.50 N 00.50 E	1.30
8865.00	4.40	N 30.00 E	91.00	10786.16	111.53 N	49.10 N 00.10 E	.91
8958.00	5.20	N 27.00 E	93.00	10881.84	121.59 N	48.00 N 00.41 E	.93
9052.00	4.80	N 15.00 E	91.00	10979.40	129.44 N	46.00 N 04.54 E	.43
9145.00	4.80	N 20.00 E	93.00	11076.15	136.50 N	43.10 N 05.40 E	.09
9239.00	4.30	N 10.00 E	94.00	11173.80	143.50 N	40.20 N 06.20 E	.63
9332.00	4.00	N 20.00 E	92.00	11270.61	150.03 N	36.80 N 06.81 E	.40
9426.00	3.50	N 20.00 E	94.90	11367.41	155.77 N	33.10 N 07.30 E	.53
9519.00	2.90	N 20.00 E	96.00	11464.22	160.50 N	28.90 N 07.82 E	.66
9613.00	2.20	N 10.00 E	96.00	11561.02	161.50 N	24.50 N 09.04 E	.96

AMERIND OIL COMPANY
MAYERS WELL NO.3
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MEASURED INCL. HOLE COURSE VERTICAL R E L T A N G U L A R C L O S U R E DUG-LEG
DEPTH ANGLE DIRECTION LENGTH DEPTH C O U R S E D I S T A N C E D I R E C T I O N S E V E R I T Y
FEET DEGS. DUGS. FEET FEET N/S feet E/W FEET DEGS. DUG/100FT

9706.00	2.00	N 04.00 E	93.00	9702.11	167.97 N	23.64 E	169.63' N 00.01 E	.35
9799.00	1.80	N 01.00 W	93.00	9795.06	171.05 N	23.69 E	172.69' N 07.89 E	.26
9893.00	1.80	N 17.00 E	94.00	9889.01	173.97 N	24.19 E	175.63' N 07.89 E	.60
9986.00	1.60	N 07.00 E	93.00	9981.97	176.56 N	24.67 E	178.30' N 07.95 E	.39
10080.00	1.20	N 07.00 E	94.00	10075.94	178.94 N	24.95 E	180.67' N 07.94 E	.43
10173.00	1.10	N 59.00 W	93.00	10169.92	180.57 N	24.24 E	182.19' N 07.65 E	1.26
10267.00	1.30	N 45.00 W	94.00	10262.90	181.84 N	22.74 E	183.25' N 07.13 E	.29
10360.00	1.70	N 63.00 W	93.00	10355.87	183.25 N	20.76 E	184.42' N 06.40 E	.54
10454.00	2.30	N 69.00 W	94.00	10449.81	184.50 N	17.77 E	185.43' N 05.50 E	.68
10547.00	2.10	N 75.00 W	93.00	10542.75	185.50 N	14.37 E	186.24' N 04.43 E	.33
10641.00	1.60	N 60.00 W	94.00	10636.70	186.64 N	11.50 E	187.00' N 03.53 E	.59
10734.00	2.00	N 63.00 W	93.00	10729.65	187.86 N	9.84 E	188.06' N 02.69 E	.46
10827.00	2.60	N 63.00 W	93.00	10822.57	189.55 N	5.52 E	189.63' N 01.67 E	.65
10921.00	3.30	N 74.00 W	94.00	10916.45	191.32 N	1.82 E	191.32' N 00.31 E	.95
11014.00	4.70	N 85.00 W	93.00	11009.22	193.50 N	5.35 W	192.57' N 01.59 W	1.71
11107.00	5.30	S 87.00 W	93.00	11101.97	194.64 N	13.40 W	193.11' N 03.99 W	.99
11201.00	5.20	S 87.00 W	94.00	11193.47	194.19 N	22.06 W	193.45' N 06.58 W	.11
11293.00	4.60	S 83.00 W	62.00	11287.24	191.73 N	27.31 W	193.67' N 08.11 W	1.11

CLOSURE DISTANCE = 193.67 FEET.
CLOSURE DIRECTION = N 08.11 W

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