

FUEL GAS PIPELINE
MONUMENTATION
SURVEY

BEARING AND DISTANCE SCHEDULE
REFERENCE POINT SCHEDULE

PREPARED FOR

ALYESKA PIPELINE
SERVICE COMPANY

PREPARED BY

BOMHOFF & ASSOCIATES, INC.
ANCHORAGE, ALASKA

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MONUMENTATION SURVEY

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Prepared for

ALYESKA PIPELINE SERVICE COMPANY

1979

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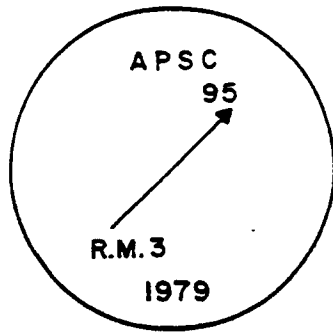
BOMHOFF & ASSOCIATES, INC.
Anchorage, Alaska

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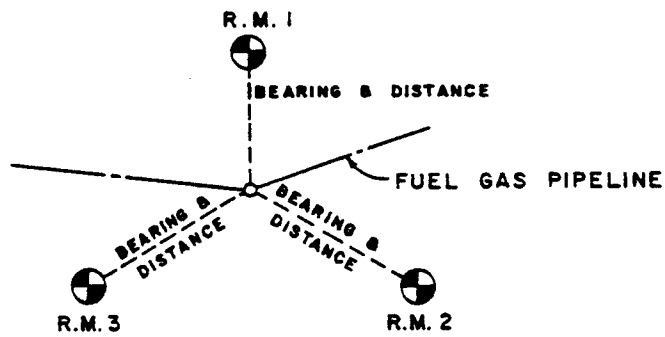
Section A	Bearing and Distance Schedule
Section B	Reference Point Schedule

SECTION B

Reference Point
Schedule



TYPICAL MONUMENT MARKING



TYPICAL FUEL GAS PIPELINE
MONUMENTATION DETAIL

Alyeska Fuel Gas Pipeline

Reference Monuments

Point ID	R.M. No.	True Bearing	Dist.
1	1	N 64-09-16 W	12.43
	2	N 69-57-34 E	83.77
	3	S 17-33-06 E	53.66
2	1	S 55-14-37 W	46.97
	2	N 62-24-58 W	87.11
	3	N 02-41-02 E	68.97
3	1	S 72-15-50 E	27.89
	2	S 54-53-10 W	54.58
	3	N 01-07-50 W	56.05
4	1	S 42-40-03 W	75.14
	2	N 79-44-19 W	87.37
	3	N 18-38-39 W	66.51
5	1	S 24-30-29 W	50.44
	2	S 71-48-03 W	53.05
	3	N 55-16-26 W	47.46
6	1	S 68-05-18 E	23.43
	2	S 56-56-54 W	50.25
	3	N 04-12-27 W	51.74
7	1	S 67-58-04 E	10.88
	2	S 63-32-23 W	57.55
	3	N 25-01-34 W	54.92
8	1	N 28-45-37 E	82.31
	2	S 89-13-35 E	81.55
	3	S 18-53-17 E	81.83
9	1	N 72-42-37 E	9.77
	2	S 29-34-52 W	55.70
	3	N 59-49-59 W	54.68
10	1	N 77-13-20 E	9.35
	2	S 34-26-48 W	55.70
	3	S 85-03-32 W	57.74

Point ID	R.M. No.	True Bearing	Dist.
11	1	S 07-39-40 E	62.20
	2	S 35-51-16 W	63.92
	3	S 84-40-45 W	53.34
12	1	S 55-56-46 E	34.05
	2	S 22-33-23 W	69.15
	3	N 35-49-15 W	41.96
13	1	N 80-30-53 E	51.10
	2	S 43-06-24 W	38.31
	3	N 15-00-06 W	35.42
14	1	N 30-33-56 E	38.95
	2	S 03-42-19 W	34.83
	3	N 45-16-54 W	63.95
15	1	S 11-14-26 W	77.12
	2	S 61-55-20 W	102.54
	3	N 55-01-09 W	94.90
16	1	N 78-11-30 E	12.48
	2	S 26-38-58 W	54.04
	3	N 54-17-41 W	54.74
17	1	N 12-45-57 W	43.92
	2	S 82-11-42 W	49.75
	3	N 55-35-37 W	55.00
18	1	S 60-04-12 W	46.65
	2	N 77-21-48 W	45.60
	3	N 36-38-48 W	88.82
19	1	N 38-52-15 E	81.56
	2	S 81-56-38 E	87.11
	3	S 11-21-27 E	75.32
19-2	1	N 79-51-02 E	8.60
	2	S 45-29-20 W	51.83
	3	N 54-31-10 W	46.58
20	1	N 08-57-05 E	41.01
	2	S 82-36-02 W	50.97
	3	N 42-57-30 W	53.93
21	1	S 62-56-04 E	31.46
	2	S 20-12-42 W	65.11
	3	N 40-33-30 W	44.46
22	1	N 00-52-37 E	47.33
	2	S 81-04-20 W	55.32
	3	N 51-37-05 W	46.76

Point ID	R.M. No.	True Bearing	Dist.
23	1	N 78-15-30 E	53.29
	2	S 18-34-20 E	58.25
	3	N 60-54-59 W	49.95
24	1	N 58-36-14 E	12.75
	2	S 21-35-10 W	52.61
	3	N 64-41-49 W	56.23
25	1	N 77-29-43 E	13.00
	2	S 15-33-48 W	59.98
	3	N 63-26-30 W	56.97
26	1	S 11-05-03 E	34.91
	2	S 71-07-15 W	54.44
	3	N 23-36-42 W	20.48
27	1	N 07-29-39 E	29.68
	2	N 78-30-35 E	59.54
	3	S 26-42-37 E	39.62
28	1	N 71-35-48 E	7.55
	2	S 31-52-24 W	57.10
	3	N 68-40-44 W	50.17
29	1	N 13-19-58 W	42.76
	2	S 64-52-49 W	46.28
	3	N 66-51-10 W	46.48
30	1	N 81-15-59 E	9.08
	2	S 28-43-58 W	56.88
	3	N 59-18-08 W	53.68
31	1	N 78-30-52 E	9.15
	2	S 38-49-41 W	51.64
	3	N 62-20-52 W	52.46
32	1	N 82-35-17 E	9.38
	2	S 32-16-04 W	54.08
	3	N 66-29-15 W	52.89
32-1	1	S 33-27-51 W	48.97
	2	S 79-07-33 W	58.48
	3	N 30-20-56 W	42.76
33	1	S 19-17-57 W	89.16
	2	S 66-16-24 W	89.23
	3	N 56-18-35 W	32.76
34	1	S 46-06-30 E	52.40
	2	N 82-58-07 W	185.00
	3	N 50-41-04 W	206.41
	4	N 14-12-54 W	195.53

Point ID	R.M. No.	True Bearing	Dist.
35	1	S 65-34-48 E	65.58
	2	S 24-34-48 E	50.83
	3	N 68-14-12 E	44.02
36	1	N 44-19-16 E	43.14
	2	S 53-55-15 E	59.92
	3	S 16-30-41 W	44.49
37	1	S 11-57-56 E	11.86
	2	N 56-23-56 W	50.01
	3	N 23-04-04 E	52.85
38	1	N 22-11-14 W	44.35
	2	N 77-38-16 E	44.30
	3	S 27-23-55 W	41.38
39	1	N 84-09-46 E	177.17
	2	S 52-25-00 E	187.41
	3	S 11-02-13 E	173.38
40	1	S 67-20-57 W	53.06
	2	N 72-15-40 W	57.18
	3	N 29-00-28 W	52.44
41	1	S 23-02-56 W	52.44
	2	S 66-08-34 W	52.12
	3	N 67-25-23 W	43.18
42	1	N 51-32-36 E	56.70
	2	S 77-07-26 E	44.33
	3	S 31-02-48 E	57.14
43	1	N 50-00-46 E	75.42
	2	S 85-43-14 E	72.47
	3	S 46-38-14 E	75.51
44	1	N 43-28-24 E	54.09
	2	S 50-57-54 E	48.12
	3	S 88-26-00 W	13.56
45	1	S 17-08-28 E	79.81
	2	S 45-02-05 W	69.65
	3	N 77-51-12 W	73.42
46	1	N 16-08-52 E	39.06
	2	S 51-39-33 E	34.07
	3	S 77-18-49 W	31.79
47	1	N 34-14-23 E	67.73
	2	S 45-12-08 E	59.64
	3	S 86-58-02 W	12.10

Point ID	R.M. No.	True Bearing	Dist.
48	1	N 24-59-32 E	34.29
	2	S 78-23-28 E	39.40
	3	S 05-57-28 E	39.10
49	1	N 77-25-25 E	65.38
	2	S 04-11-26 E	79.94
	3	N 61-54-41 W	13.80
50	1	N 38-11-11 E	54.16
	2	S 63-51-28 E	68.17
	3	S 16-37-13 W	57.91
51	1	N 69-14-01 E	58.35
	2	S 18-08-12 E	62.81
	3	N 69-35-36 W	12.27
52	1	N 37-09-51 E	58.32
	2	S 40-27-29 E	63.44
	3	N 73-47-31 W	8.67
53	1	N 30-59-35 E	55.84
	2	S 19-41-25 E	61.92
	3	N 86-01-05 W	37.78
54	1	N 46-10-16 E	56.89
	2	S 34-24-52 E	59.88
	3	N 83-05-25 W	10.65
55	1	N 53-23-36 E	42.31
	2	S 37-44-24 E	44.47
	3	N 76-53-24 W	12.04
56	1	N 62-45-28 E	53.63
	2	S 34-47-21 E	53.53
	3	N 68-38-32 W	17.11
57	1	N 57-32-16 E	52.36
	2	S 65-20-51 E	50.79
	3	S 15-48-32 E	57.92
58	1	N 72-14-42 E	64.63
	2	S 66-37-40 E	59.05
	3	S 22-31-18 E	64.03
59	1	N 35-13-22 E	47.97
	2	N 84-34-38 E	84.10
	3	S 44-33-19 E	53.66
60	1	N 51-04-24 E	55.53
	2	S 38-41-23 E	55.42
	3	N 83-24-26 W	10.25

Point ID	R.M. No.	True Bearing	Dist.
61	1	N 72-56-03 E	75.11
	2	S 75-54-14 E	18.89
	3	S 48-12-23 E	73.05
62	1	N 34-10-24 E	74.73
	2	S 74-39-58 E	36.62
	3	N 09-36-26 W	35.13
63	1	N 48-01-04 E	53.80
	2	S 35-07-49 E	50.73
	3	N 80-45-06 W	10.58
64	1	N 16-04-24 E	52.29
	2	S 71-21-18 E	48.68
	3	S 72-01-11 W	11.22
65	1	N 60-00-15 E	51.97
	2	S 16-07-45 W	48.78
	3	N 48-04-28 W	50.86
66	1	N 53-25-18 E	97.04
	2	N 81-28-48 E	83.35
	3	S 72-24-41 E	93.78
67	1	N 73-15-48 E	50.54
	2	S 07-51-08 E	48.73
	3	N 56-00-30 W	38.89
68	1	N 46-47-59 E	49.74
	2	S 77-39-20 E	42.37
	3	S 15-40-11 E	30.16
69	1	N 66-00-03 E	47.39
	2	S 25-05-40 E	25.03
	3	N 70-36-07 W	16.38
70-1	1	N 05-57-46 E	67.68
	2	S 46-40-21 E	65.03
	3	S 63-58-29 W	98.08
71	1	N 32-06-14 E	42.54
	2	N 78-38-59 E	37.80
	3	S 60-45-54 E	48.25
72	1	N 17-06-35 E	39.56
	2	S 77-07-25 E	38.64
	3	S 59-13-35 W	44.32
73	1	N 23-44-32 E	39.00
	2	S 49-00-28 E	36.75
	3	S 81-03-32 W	75.78

Point ID	R.M. No.	True Bearing	Dist.
74	1	N 53-49-55 E	206.66
	2	N 84-12-55 E	182.01
	3	S 66-08-05 E	205.65
75	1	N 35-06-33 E	54.09
	2	S 48-17-27 E	45.50
	3	S 76-20-33 W	27.80
76	1	S 06-24-42 W	36.02
	2	S 64-01-42 W	50.91
	3	N 50-39-17 W	53.46
77	1	S 89-17-15 E	46.70
	2	S 13-31-15 E	49.63
	3	N 49-23-15 W	26.75
78	1	N 67-11-53 E	48.83
	2	S 32-42-07 E	50.83
	3	N 69-06-07 W	15.66
79	1	N 77-55-17 E	53.96
	2	S 18-44-43 E	51.62
	3	N 60-45-43 W	25.47
80	1	N 74-53-11 E	67.46
	2	S 68-43-48 E	51.97
	3	S 29-28-53 E	64.56
81	1	N 75-42-38 E	67.32
	2	S 53-16-15 E	66.73
	3	S 02-40-18 E	69.33
82	1	S 88-54-03 E	61.07
	2	S 14-19-26 E	51.24
	3	N 55-27-01 W	14.29
83	1	N 81-02-48 E	43.43
	2	S 13-21-23 E	47.09
	3	N 51-27-08 W	9.92
84	1	S 69-02-45 E	59.66
	2	S 27-39-45 E	42.69
	3	S 23-42-15 W	57.25
85	1	S 69-05-05 E	57.59
	2	S 25-07-24 E	45.45
	3	S 16-48-41 W	56.36
86	1	S 81-20-14 E	62.80
	2	S 35-45-52 E	59.49
	3	S 12-00-13 W	58.20

Point ID	R.M. No.	True Bearing	Dist.
87	1	N 84-00-38 E	62.71
	2	S 47-04-37 E	58.31
	3	S 05-53-14 W	72.13
88	1	N 83-47-13 E	48.36
	2	S 20-49-47 E	48.67
	3	N 59-19-47 W	13.98
89	1	S 04-12-57 W	28.96
	2	N 64-57-03 W	37.02
	3	N 37-35-57 E	40.48
90	1	S 10-09-15 E	30.20
	2	N 60-19-14 W	43.59
	3	N 34-56-47 E	47.84
91	1	N 85-24-16 W	45.81
	2	N 33-01-08 W	39.45
	3	N 20-58-05 E	30.08
92	1	S 24-06-36 E	15.81
	2	N 06-04-40 W	62.40
	3	N 16-38-04 E	58.45
93	1	N 84-50-51 W	40.47
	2	N 33-27-53 W	40.00
	3	N 19-48-51 W	41.22
94	1	S 10-35-17 E	10.54
	2	N 69-03-52 W	43.76
	3	N 06-17-52 E	42.62
95-1	1	S 70-14-08 E	53.94
	2	S 35-32-52 W	44.38
	3	N 05-24-09 W	37.12
96	1	N 15-47-09 W	63.75
	2	N 17-28-51 E	67.38
	3	N 51-03-51 E	76.27
97	1	N 55-49-43 W	52.07
	2	N 12-58-43 W	46.84
	3	N 37-43-17 E	54.39
98	1	S 09-21-22 E	9.35
	2	N 45-39-22 W	56.39
	3	N 29-43-38 E	58.74
100	1	N 86-38-27 E	139.55
	2	S 09-55-33 E	61.54
	3	N 28-46-33 W	77.64

Point ID	R.M. No.	True Bearing	Dist.
101	1	N 66-35-19 E	17.30
	2	S 30-25-19 W	57.15
	3	N 66-22-41 W	56.29
102	1	S 23-13-36 W	48.95
	2	S 70-29-08 W	40.88
	3	N 60-43-39 W	47.81
103	1	N 58-33-00 E	44.10
	2	S 02-04-23 W	58.23
	3	N 56-36-46 W	49.22
104	1	S 32-07-59 W	69.24
	2	S 81-57-34 W	64.02
	3	N 58-59-45 W	94.13
105	1	N 00-16-09 E	70.47
	2	N 62-56-50 E	33.38
	3	N 82-22-00 W	52.27
106	1	N 23-23-20 E	52.70
	2	S 62-35-34 E	60.23
	3	S 69-36-05 W	50.45
107	1	N 26-45-26 E	53.61
	2	S 43-10-23 E	56.88
	3	S 78-19-50 W	56.08
108	1	N 39-00-57 E	84.86
	2	N 79-56-45 E	79.90
	3	S 68-23-01 E	88.65
109	1	N 89-40-29 W	13.61
	2	S 44-48-07 W	44.80
	3	N 50-53-58 W	47.19
110	1	S 70-03-49 E	21.44
	2	S 66-04-48 W	51.11
	3	N 29-32-42 W	58.09