ENCLOSURE 1

ADVANCED NUCLEAR FUELS CORPORATION

2101 HORN RAPIDS ROAD, P.O. BOX 130, RICHLAND, WA 99352-0130
(509) 375-8100, TELEX 15[illegible]178

REGULATORY COMPLIANCE

January 12, 1990
SRL:90:003

Washington State Department of Ecology
Attn: Mr. Chuck Cline
Mail Stop PV-11
Olympia, WA 98504

Dear Mr. Cline:

TEST WELL DATA

Please find enclosed the Advanced Nuclear Fuels Corporation (ANF) test well data that you requested. This data was also requested and sent on January 9, 1990 to Maryanne Olascaga of Westinghouse Hanford.

Very truly yours,

Stephen R. Lockhaven, Specialist
Industrial Regulations

jrs

Enclosure
As Stated

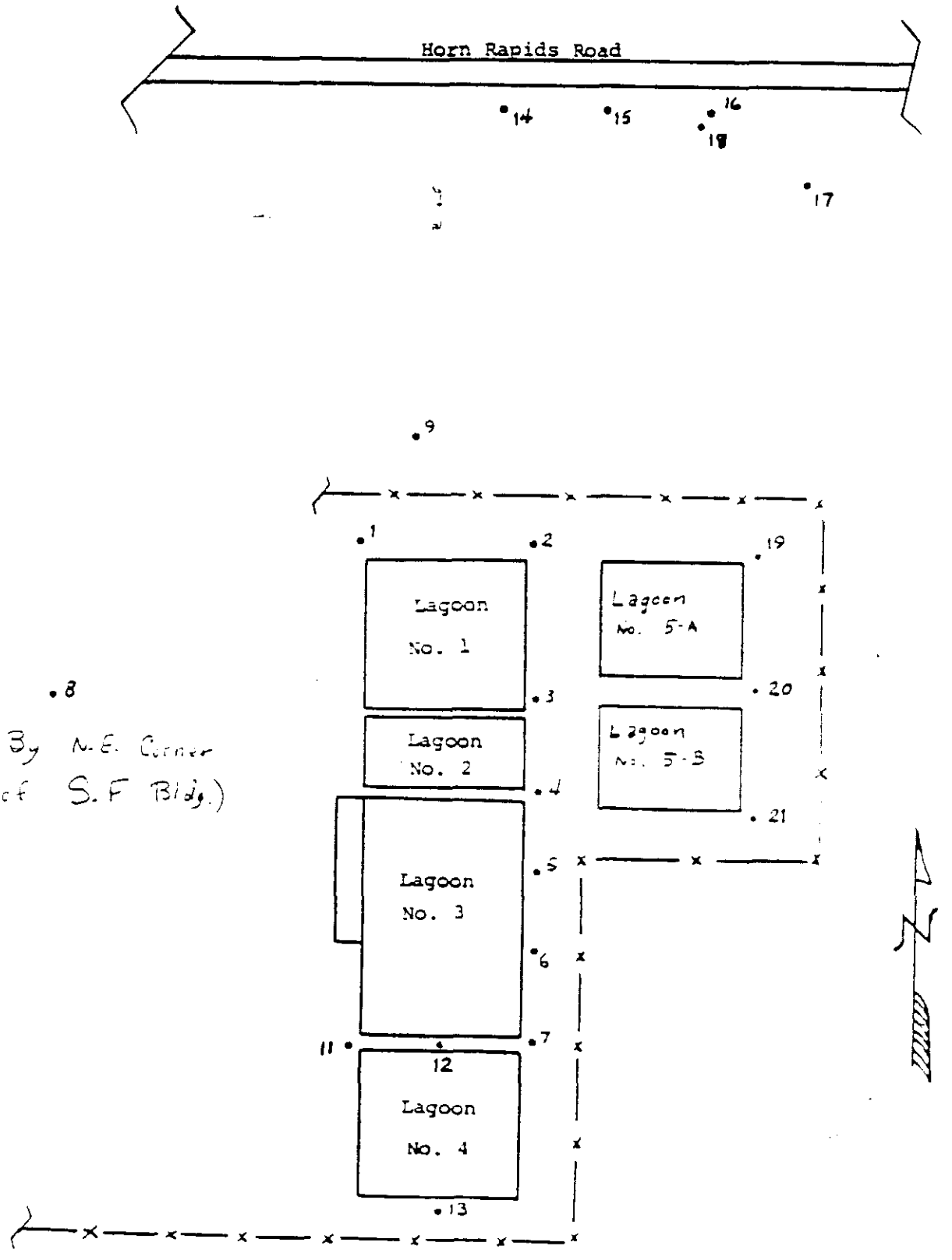


Figure 1-6 Lagoon Test Well Locations

WELL #1

Yr/Qtr	U ppm	Alpha pCi/L	Beta pCi/L	F ppm	NO_3 ppm	NH_3 ppm
81/1	<0.1			5.20	68	72
81/2	<0.1			5.10	79	81
81/3	<0.1			7.60	38	26
81/4	<0.1			11.20	27	30
82/1	<0.1			21.30	72	73
82/2	<0.1			9.70	63	94
82/3	<0.1			6.00	49	107
82/4	<0.1			11.70	81	108
83/1	<0.1			4.00	99	72
83/2	<0.1			6.00	81	69
83/3	<0.1			4.80	60	35
83/4	<0.1			2.90	52	46
84/1	<0.1			3.80	52	49
84/2		24.4	24.4	4.00		
84/3		8.7	46.4	5.00	53	29
84/4		9.9	91.7	4.00		
85/1		11.1	55.6	4.00	71	90
85/2		12.1	29.2	2.00		
85/3		8.0	18.0	2.90	64	-
85/4		42.4	30.4	6.20		
86/1		22.1	17.4	3	46	20
86/2		19.1	24.8	2.6		
86/3		12.8	15.8	3	42	19
86/4		52.6	23.2	5		
87/1		19.6	33.3	2	51.25	52.41
87/2		15.7	14.1	3	25.6	35.5
87/3		75.4	42.4	[illegible]	34.6	
87/4						
88/1		41.4	34	5	[illegible]	[illegible]
88/2		15.4	30	3		
88/3		1.8	14.5	1.8	[illegible]	[illegible]
88/4		10.5	17.6	4.7		
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

WELL #2

Yr/Qtr	U ppm	= Alpha pCi/L	Beta pCi/L	F ppm	NO_3 ppm	NH_3 ppm
81/1	<0.1			14.00	34	145
81/2	<0.1			9.70	65	147
81/3	<0.1			7.00	42	85
81/4	<0.1			6.50	18	85
82/1	<0.1			18.90	34	99
82/2	<0.1			11.60	37	114
82/3	<0.1			7.10	33	102
82/4	<0.1			8.00	39	29
83/1	<0.1			8.50	65	163
83/2	<0.1			3.30	57	108
83/3	<0.1			4.50	18	55
83/4	<0.1			4.10	6	46
84/1	<0.1			7.60	44	60
84/2		148	77.6	7.20		
84/3		131	61.1	7.00	43	36
84/4		111	68.1	7.00		
85/1		91.1	70.1	7.50	57	823
85/2		281.0	87.3	4.00		
85/3		98.3	50.3	8.40	69	-
85/4		86.2	30.4	5.20		
86/1		22.1	17.4			
86/2		39.5	27.3	3	32	38
86/3		58.6	33.7	5.8		
86/4		34.8	30.1	8 4	~~43~~	~~34~~
87/1						
87/2		—	—	—	—	—
87/3		44.6	45.8	4.4	44.7	35.7
87/4		35.3 24.4	34.7 32.6	6 5	37.7 ~~[illegible]~~	43.5 12.4
88/1						
88/2		31.3	45	7	25.8	~~34~~
88/3		19.6	47.2	5		
88/4		27.1 45.8	52.5 43.4	4.4 4.7	59.5	~~53.5~~
89/1						
89/2		22	17.4	12.7	62.6	~~42~~
89/3		11.5	10.1	6.6		
89/4		12.7 ~~24~~	10.8 ~~11.5~~	4.0 ~~5.3~~	60.8	~~3.9~~

WELL #3

Yr/Qtr	U ppm	Alpha pCi/L	Beta pCi/L	F ppm	NO_3	UHU
81/1	<0.1			0.92		
81/2	<0.1			0.80		
81/3	<0.1			0.54		
81/4	<0.1			0.46		
82/1	<0.1			0.52		
82/2	<0.1			0.81		
82/3	<0.1			0.56		
82/4	<0.1			0.40		
83/1	<0.1			1.30		
83/2	<0.1			0.65		
83/3	<0.1			0.41		
83/4	<0.1			0.45		
84/1	<0.1			0.46		
84/2		5.1	40.6	0.50		
84/3		5.6	19.9	1.00		
84/4		11.6	31.7	6.00		
85/1		19.8	48.5	0.80		
85/2		44.1	24.5	1.50		
85/3		9.2	22.4	0.50		
85/4		6.6	28.2	0.48		
86/1		3.8	17.2			
86/2		8.3	2 7.3	.4		
86/3		6.1	41.6	.5		
86/4		2.6	14.7	.5		
87/1		—	—	—	52.4	51.3
87/2		2.8	27.2	.5		
87/3		2.3	19.1	.4		
87/4		4.7	26.6	.8		2.8
88/1		1.0	23	2		
88/2		2.9	23.5	.7		
88/3		3 3	24.1	1.0		
88/4		1.7	20	1.6		
89/1		3.5	8.6	.4		
89/2		1.8	10.7	.4		
89/3		2.5	9.9	.4		
89/4		2 3	9.2	.5		

WELL #4

Yr/Qtr	U ppm	Alpha = pCi/L	Beta pCi/L	F ppm		
81/1	<0.1			0.83		
81/2	<0.1			0.63		
81/3	<0.1			0.68		
81/4	<0.1			0.65		
2/1	<0.1			0.45		
2/2	<0.1			0.67		
2/3	<0.1			0.39		
2/4	<0.1			0.43		
3/1	<0.1			0.91		
3/2	<0.1			0.37		
3/3	<0.1			0.36		
3/4	<0.1			0.42		
4/1	<0.1			0.35		
4/2		46.4	28.6	0.40		
4/3		5.0	26.2	0.70		
4/4		7.1	26.7	0.50		
5/1		6.9	29.1	0.70		
5/2		9.9	33.1	2.00		
5/3		7.6	19.5	0.50		
5/4		3.9	19.8	0.45	NO_3	NH_4
86/1		41.2	18.9	.4		
86/2		7.3	19.4	.4		
86/3		4.8	41.8	1.0		
86/4		2.3	13.8	.5		
87/1		—	—	—	—	—
87/2		1.9	19	.6	25.1	4.7
87/3		2.39	22	.3		
87/4		2.2	18.4	.5		
88/1					—	3.1
88/2		2.6	12.9	.4		
88/3		1.7	18.4	.3		
88/4		2.7	13.2	1.7		
		1.8	12.1	.5		
89/1						
89/2		2.8	6.0	.4		
89/3		1.2	6.8	.7		
89/4		2.3	10.3	.4		
		2.7	7.9	.4		

WELL #5

yr/qtr	U ppm	= Alpha pCi/L	Beta pCi/L	F ppm		
81/1	<0.1			0.51		
81/2	<0.1			0.28		
81/3				0.29		
81/4				0.31		
82/1				0.27		
82/2				0.60		
82/3				0.27		
82/4				0.41		
83/1				0.85		
83/2				0.40		
83/3				0.28		
83/4				0.28		
84/1				0.35		
84/2		3.2	32.9	0.45		
84/3		3.3	28.8	14.0		
84/4		1.8	5.54	0.30		
85/1		7.8	38.9	0.40		
85/2		1.4	10.7	0.50		
85/3		0.2	10.4	0.30		
85/4		0.03	8.8	0.21	NO_3	NH_4
86/1		1.6	7.4	.2		
86/2		.23	6.5	.2		
86/3		1.69	8.9	.7		
86/4		.05	7.3	.4		
87/1						
87/2		—	—	—		
87/3		.03	5.5	.7		
87/4		.38	6.4	.3		
88/1		.68	7.6	.3		3.1
88/2		1.1	23.6	.3		
88/3		1.8	5.3	.2		
88/4		.47	6.0	.3		
		1.4	6.6	.5		
89/1						
89/2		2.1	5.5	.4		
89/3		.9	3.2	.3		
89/4		.9	5.1	.3		
		.6	6.2	.3		

WELL #6

Yr/Qtr	U ppm	Alpha = pCi/L	Beta pCi/L	F ppm
81/1	<0.1			0.51
81/2	<0.1			0.54
81/3	<0.1			0.25
81/4	<0.1			0.33
82/1	<0.1			0.53
82/2	<0.1			0.49
82/3	<0.1			0.30
82/4	<0.1			0.34
83/1	<0.1			0.83
83/2	<0.1			4.80
83/3	<0.1			0.30
83/4	<0.1			0.40
84/1	<0.1			0.39
84/2		8.3	19.7	0.60
84/3		3.4	9.0	0.40
84/4		4.4	27.2	0.30
85/1		8.8	23.1	0.80
85/2		6.7	14.6	1.30
85/3		0.1	11.0	0.50
85/4		5.4	14.3	0.30
86/1		2.5	12	.2
86/2		2.5	8.1	.2
86/3		2.4	11.5	.3
86/4		2.2	11.3	.3
87/1				
87/2				
87/3		1.0	9.6	.4
87/4		.6	6.3	.3
88/1		1.98	20.3	.3
88/2		.9		
88/3		1.6	14.3	.3
88/4		2.2	10	.3
89/1		1.2	10.3	.3
89/2		1.4	9.6	.5
89/3		2.7	5.7	.3
89/4		1.4	3.7	.3
		1.2	5.7	.3
			5.7	.4

WELL #7

Yr/Qtr	U ppm	Alpha pCi/L	Beta pCi/L	F ppm
81/1	<0.1			0.39
81/2	<0.1			0.28
81/3	<0.1			0.35
81/4	<0.1			0.38
82/1	<0.1			0.42
82/2	<0.1			0.48
82/3	<0.1			0.31
82/4	<0.1			0.37
83/1	<0.1			1.53
83/2	<0.1			0.50
83/3	<0.1			0.33
83/4	<0.1			0.40
84/1	<0.1			0.39
84/2		2.2	5.1	0.47
84/3		2.6	4.5	0.70
84/4		3.1	5.7	0.40
85/1		3.2	5.0	0.70
85/2		3.9	5.9	0.70
85/3		2.0	7.0	0.30
85/4		2.0	5.3	0.30
86/1		.8	4.7	.3
86/2		.92	5	.2
86/3		.27	5.9	.2
86/4		.79	4.6	.4
87/1		—	—	—
87/2		1.0	2.7	.3
87/3		.7	5.3	.2
87/4		1.0	4.7	.4
88/1				
88/2		1.3	3.9	.2
88/3		1.0	5.7	.2
88/4		1.0	7.5	.2
		1.3	4.3	.4
89/1				
89/2		1.3	6.7	.2
89/3		0.7	1.3	1.1
89/4		1.4	5.7	.2
		0.45	4.97	.3

WELL #9

	U ppm	Alpha pCi/L	Beta pCi/L	F ppm	NO_3 ppm	NH_3 ppm
1					75	193
2					75	129
3					40	112
4					37	90
					47	107
					64	164
	<0.1				53	131
	<0.1				56	130
	<0.1				58	132
2	<0.1				67	120
3	<0.1				48	96
4	<0.1				11	95
	<0.1				21	105
	<0.1					
		109.0	47.0		86	178
		17.4	73.8		94	84
3		69.4	36.3		75	14
4						
5G/1		80.2	39.7		59	92
2/2						
8G/3		49.5	44.7	1.0	89	70
8G/4						
8/1						
8/2		—	—	—	—	—
8/3		—				
8/4		84.1	56.2	8	77.9	104.8
		—				
88/1						
88/2		192	128			
88/3		—			41.5	23.0
88/4		54.3	44.3			
		—			61.5	45.0
5/1		97.8	32.6	6.9	20.3	24.6
5/3		—				
8/4		45.4	15.1	7.5	83.1	38.8
		—				

WELL #11

Date	U ppm	Alpha pCi/L	Beta pCi/L	F ppm
				0.51
				0.46
				0.38
				0.38
				0.45
				0.62
				0.37
	<0.1			0.43
	<0.1			0.62
	<0.1			0.50
	<0.1			0.42
	<0.1			0.43
	<0.1			0.34
		1.3	7.5	0.38
		2.1	5.0	0.70
		4.3	5.0	0.40
		3.9	9.0	1.00
		4.6	9.1	0.60
		0.1	6.6	0.30
		2.7	3.9	0.30
8/1		.3	5.1	.3
8/2		.2	4.9	.2
8/3		2.5	6.9	.3
8/4		1.4	5.0	.3
8/1		—	—	—
8/2a		3.7	10.5	1.4
8/3		.8	10.1	.4
8/4		1.6	7.4	.5
88/1				
88/2		2.4	4.5	1.6
88/3		6.7	12.1	.3
88/4		1.6	5.5	.3
		1.1	11.3	.6
89/1				
89/2		5.1	10.1	.3
89/3		1.0	5.5	.4
89/4		3.1	5.0	.4
		1.7	5.5	.4

WELL #12

Yr/Qtr	U ppm	Alpha pCi/L	Beta pCi/L	F ppm
81/1				0.60
81/2				0.39
81/3				0.39
81/4				0.40
82/1				0.49
82/2				0.65
82/3				0.40
82/4	<0.1			0.33
83/1	<0.1			0.61
83/2	<0.1			0.55
83/3	<0.1			0.35
83/4	<0.1			0.57
84/1	<0.1			0.41
84/2		7.1	7.0	3.00
84/3		0.8	8.3	0.60
84/4		1.8	5.0	0.40
85/1		0.2	7.3	1.00
85/2		2.6	6.7	1.00
85/3		3.7	4.0	0.30
85/4		1.0	6.7	0.23
86/1		2.6	4.8	0.2
86/2		4.5	6.7	0.3
86/3		3.25	6.16	0.4
86/4		.15	6.7	0.3
87/1		—	—	—
87/2		2.2	8.7	0.2
87/3		1.3	5.8	0.6
87/4		1.2	6.3	0.4
88/1		.4	8.1	0.4
88/2		.3	6.4	0.3
88/3		1.0	1.9	0.3
88/4		1.3	4.9	0.7
89/1		2.1	7.6	0.5
89/2		0.2	3.7	0.3
89/3		2.5	3.4	0.3
89/4		2.5	7.8	0.3

WELL #13

POOR COPY RECEIVED

r/Qtr	U ppm	Alpha = pCi/L	Beta pCi/L	F ppm	NO_3 ppm	NH_3 ppm
81/1				0.35	2.6	0.19
81/2				0.27	3.2	0.02
81/3				0.55	2.1	0.19
81/4				0.38	1.4	0.53
2/1				0.29	2.5	0.33
2/2				0.46	3.1	0.12
2/3				0.38	1.4	0.16
2/4	<0.1			0.25	0.8	0.22
3/1	<0.1			0.41	3.5	0.10
3/2	<0.1			0.45	4.4	0.90
3/3	<0.1			0.39	1.6	0.35
3/4	<0.1			0.60	1.3	0.67
4/1	<0.1			0.34	2.8	0.11
4/2		2.1	C.5	0.47		
4/3		2.6	0.7	0.70	2.7	0.16
4/4		3.1	1.9			
5/1		4.3	6.9	~~8.00~~ 1.0	10.2	0.74
5/2		3.0	5.6	3		
5/3		1.6	3.5	~~8.00~~ 3 3	5.6	-
5/4		1.8	6.6			
86/1		1.1	4.0	0.3	5.6	1.4
86/2		2.4	4.2	0.3		
86/3		1.4	4.92	0.4	3.4	1.9
86/4						
87/1		—	—	—	—	—
87/2						
87/3		~~2~~ .6	3.8	0.5		
87/4		1.2	5.1	0.2		
88/1		1.7	6.4	0.5		
88/2		0.44	6.8	0.3		
88/3		.0	3.2	0.3		
88/4		1.5	4.9	0.2		
89/1		2.3	3.8	0.5		
89/2		1.6	6.6	0.4		
89/3		2.7	6.9	0.4		
89/4		1.5	3.9	0.3		
		2.8	5.4	0.3		

WELL #14

Yr/Qtr	U ppm	Alpha pCi/L	Beta pCi/L	F ppm	NO_3 ppm	NH_3 ppm
81/1					53	71
81/2					77	43
81/3					34	58
81/4					21	84
82/1					40	86
82/2					37	111
82/3					51	170
82/4	<0.1				65	72
83/1	<0.1				68	84
83/2	<0.1				68	85
83/3	<0.1				52	148
83/4	<0.1				41	71
84/1	<0.1				75	120
84/2						
84/3		25.0	18.0		64	77
84/4						
85/1		68.0	25.0		46	38
85/2						
85/3		55.0	23.0		49	-
85/4						
86/1		59	29.8		52	9
86/2						
86/3		65	27.9	6	49	8.5
86/4						
87/1		—	—	—	—	—
87/2		—				
87/3						
87/4		2.4	35.7		64.2	43.5
88/1		—				
88/2		72.8	53.2		42.0	35.6
88/3		—				
88/4		33.0 23.2	27.4 28.5	2.7 4.5	46.4	17.1
89/1						
89/2		19.8	19.6	3.1	56.5	1.7
89/3		—				
89/4		17.8	11.6	3.7	63.4	9.3
		—				

WELL #15

Yr/Qtr	U ppm	Alpha pCi/L	Beta pCi/L	F ppm	NO_3 ppm	NH_3 ppm
81/1					80	225
81/2					65	123
81/3					39	134
81/4					22	129
82/1					46	101
82/2					61	123
82/3					41	135
82/4	<0.1				31	160
83/1	<0.1				54	94
83/2	<0.1				51	90
83/3	<0.1				11	69
83/4	<0.1				39	87
84/1	<0.1				64	73
84/2						
84/3		88.0	52.0		53	122
84/4						
85/1		82.0	80.0		85	100
85/2						
85/3		29.0	34.0		49	-
85/4						
86/1		71.0	46.2		56.0	73.0
86/2						
86/3		46.3	49.1	13.0	33.9	101.0
86/4						
87/1		—	—	—	—	—
87/2		—			—	—
87/3		—				
87/4		—			59.4	97.1
88/1		94.7	123		58.7	93.2
88/2		—				
88/3		59.9	63.2	8.0	38.4	27.9
88/4		64.1	55.9	7.8		
89/1		64.7	36.1	7.6	64.2	65.2
89/2		—				
89/3		71.4	17.7	8.3	63.9	93.2
89/4		—				

WELL #16

Yr/Qtr	U ppm	Alpha pCi/L	Beta pCi/L	F ppm	NO_3 ppm	NH_3 ppm
81/1						
81/2						
81/3						
81/4						
82/1						
82/2						
82/3	<0.1				24	43
82/4	<0.1				13	72
83/1	<0.1				41	36
83/2	<0.1				0.90	32
83/3	<0.1				1.2	43
83/4	<0.1				1.5	38
84/1	<0.1				1.4	33
84/2						
84/3		2.3	10.0		1.4	54
84/4						
85/1		4.9	20.0		1.3	44
85/2						
85/3		0.9	11.5		1.1	-
85/4						
86/1						
86/2		.86	12.7		1.4	22
86/3						
86/4		.8	10.4	9.0	1.4	34
87/1		—				
87/2		—				
87/3		6.86	8.48		2.3	166.9
87/4		—				
88/1						
88/2		0.26	7.1		1.1	24.1
88/3		—				
88/4		0.14	10.6	2.3	1.8	15.5
		0 1.77	4.0	5.0		
89/1						
89/2		0.53	4.1	4.4	5.7	20.2
89/3		—				
89/4		0.55	5.0	4.0	2.5	7.8
		—				

WELL #19

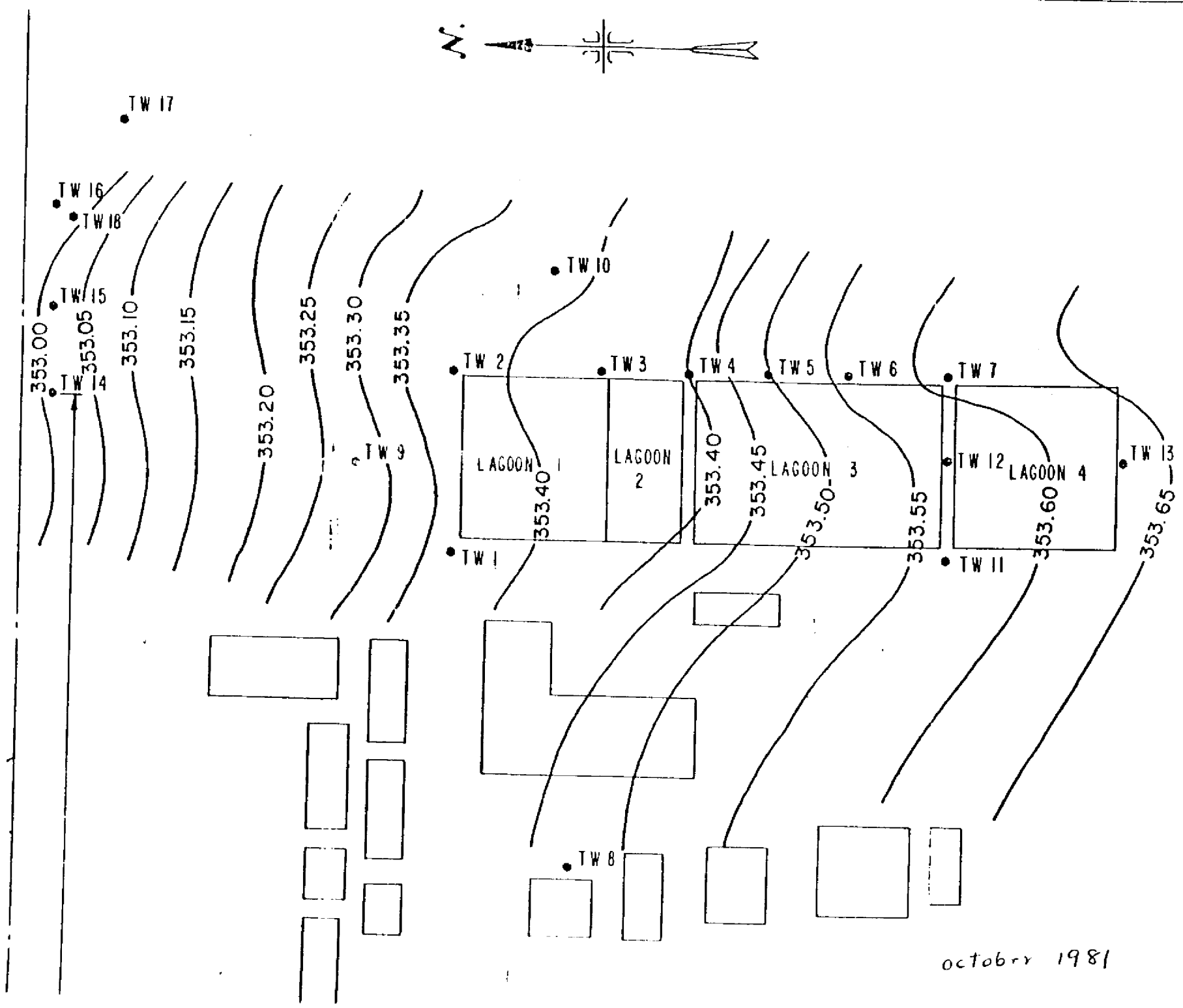
Year	U ppm	Alpha pCi/L	Beta pCi/L	F ppm
81/1				
81/2				
81/3				
81/4				
82/1				
82/2				
82/3				
82/4	<0.1			0.46
83/1	<0.1			1.70
83/2	<0.1			0.55
83/3	<0.1			0.40
83/4	<0.1			0.55
84/1	<0.1			0.43
84/2		4.2	5.5	3.00
84/3		2.8	5.0	2.00
84/4		1.0	4.4	0.30
85/1		4.9	9.3	1.50
85/2		4.1	19.1	2.00
85/3		4.5	19.0	0.20
85/4		4.0	11.5	0.20
86/1				
86/2		1.2	5.3	0.3
86/3		2.2	8.2	0.3
86/4		2.2	13.6	0.4
87/1		1.5	7.2	0.4
87/2		—		
87/3		3.6	5.8	0.4
87/4		1.2	10.7	0.3
88/1		1.7	4.2	0.3
88/2		1.8	11.6	0.3
88/3		3.1	6.1	0.2
88/4		2.5	7.7	0.3
89/1		1.4	12.7	0.4
89/2		2.7	5.5	0.2
89/3		5.9	10.5	0.3
89/4		1.7	6.3	0.3
		3.4	5.7	0.8

WELL #20

Yr/Qtr	U ppm	= Alpha pCi/L	Beta pCi/L	F ppm
81/1				
81/2				
81/3				
81/4				
82/1				
82/2				
82/3				
82/4	<0.1			0.35
83/1	<0.1			0.50
83/2	<0.1			0.50
83/3	<0.1			0.35
83/4	<0.1			0.41
84/1	<0.1			0.37
84/2		2.2	4.8	1.00
84/3		0.8	3.2	1.00
84/4		1.5	5.9	0.40
85/1		3.8	11.0	1.00
85/2		2.4	19.0	C.70
85/3		2.8	8.9	0.30
85/4		3.1	4.1	0.30
86/1				
86/2		1.7	6.2	0.3
86/3		3.8	9.9	0.2
86/4		1.7	8.4	0.5
		2.8	5.3	0.3
87/1				
87/2				
87/3		1.1	7.9	0.4
87/4		2.1	7.9	0.4
		1.9	6.1	0.3
88/1				
88/2		2.7		
88/3		2.0	6.6	0.3
88/4		.7	5.2	0.3
			7.2	0.2
89/1		.9	6.8	0.6
89/2		1.4	5.3	0.5
89/3		1.0	2.1	0.7
89/4		1.5	7.0	0.3
		1.6	4.8	0.4

WELL #21

Yr/Qtr	U ppm	Alpha pCi/L	Beta pCi/L	F ppm
81/1				
81/2				
81/3				
81/4				
82/1				
82/2				
82/3				
82/4				
83/1	<0.1			
83/2	<0.1			0.80
83/3	<0.1			0.35
83/4	<0.1			0.51
84/1	<0.1			0.41
84/2		3.2	8.2	
84/3		2.4	5.9	1.00
84/4		1.6	7.1	0.40
85/1		4.1	17.1	0.50
85/2		2.5	24.0	0.80
85/3		2.6	4.0	0.30
85/4		3.5	4.0	0.30
86/1				
86/2		2.1	3.7	0.2
86/3		2.4	7.6	0.3
86/4		1.3	6.6	0.6
87/1		1.4	5.6	0.3
87/2		2.2	5.5	0.3
87/3		2.4	5.3	0.4
87/4		1.9	4.9	0.3
88/1				
88/2		1.5	6.5	0.3
88/3		2.7	7.5	0.2
88/4		1.6	2.2	0.3
		1.7	5.3	0.4
89/1				
89/2		6.6	12.4	0.5
89/3		2.7	2.7	0.4
89/4		3.7	6.4	0.3
		3.1	5.2	0.4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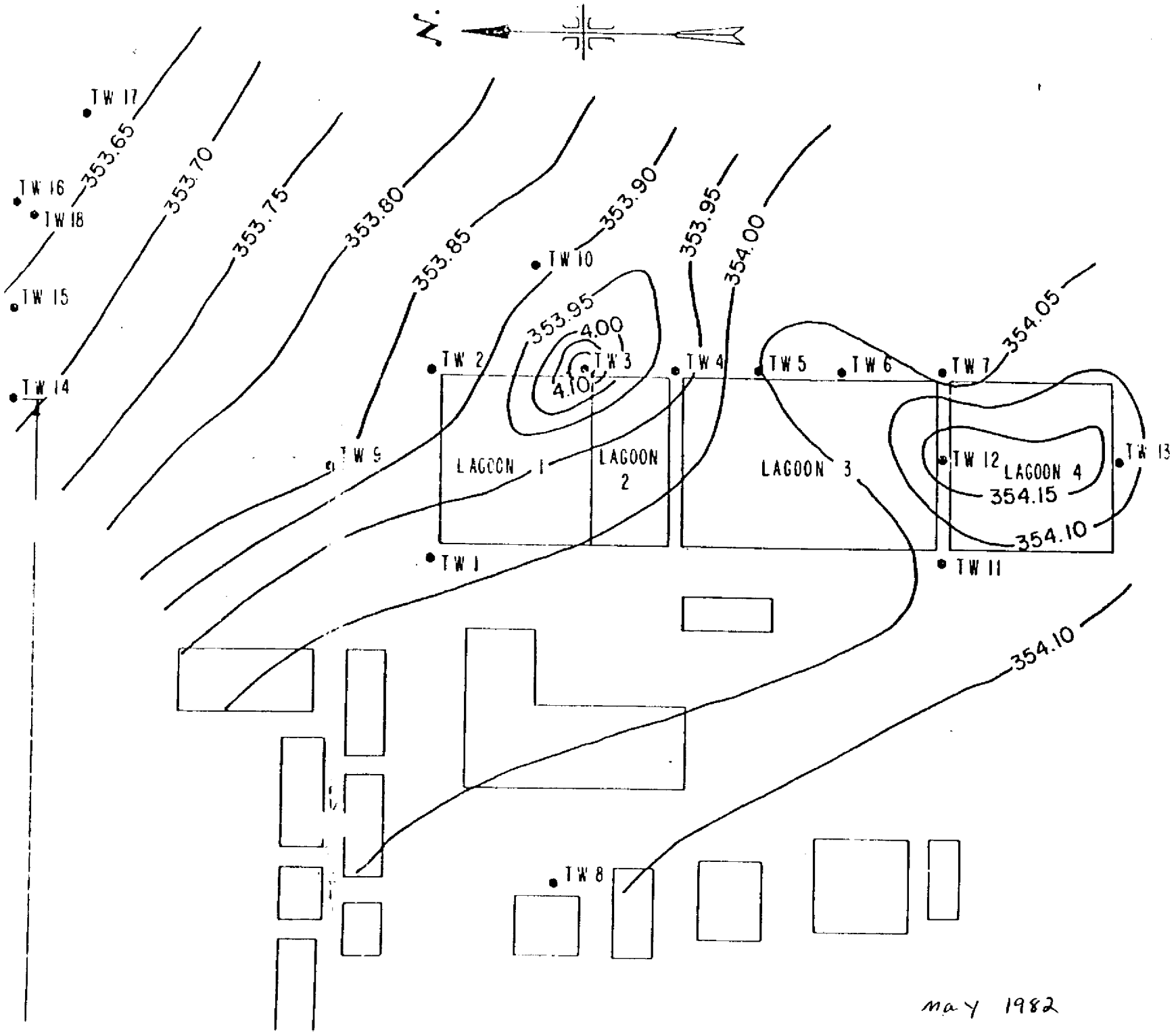
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may 1982