

Contaminated Zone Dimensions		Initial Soil Concentrations, pCi/g	
Area:	1200.00 square meters	U-234	2.370E+01
Thickness:	0.30 meters	U-235	5.000E-01
Over Depth:	0.00 meters	U-238	6.000E+00

Total Dose TDOSE(t), mrem/yr  
Basic Radiation Dose Limit = 30 mrem/yr  
Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)

t (years):	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	5.000E+02	9.000E+02	1.000E+03
TDOSE(t):	4.872E+00	4.720E+00	4.430E+00	3.548E+00	1.884E+00	2.120E-01	8.413E+00	1.125E+01	1.178E+01	3.165E+00
M(t):	1.624E-01	1.573E-01	1.477E-01	1.183E-01	6.280E-02	7.068E-03	2.804E-01	3.750E-01	3.928E-01	1.055E-01

Maximum TDOSE(t): 1.178E+01 mrem/yr at t = 900.9 ± 0.9 years

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 900.9 years

Water Independent Pathways (Inhalation excludes radon)

Radio- nuclide	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
I-234	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
I-235	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
I-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)  
As mrem/yr and Fraction of Total Dose At t = 900.9 years

Water Dependent Pathways

Radio- nuclide	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
J-234	7.525E+00	0.6386	4.905E-03	0.0004	4.275E-03	0.0004	1.478E+00	0.1254	9.499E-03	0.0008	1.959E-02	0.0017	9.041E+00	0.7672
J-235	5.547E-01	0.0471	2.816E-04	0.0000	0.000E+00	0.0000	1.091E-01	0.0093	1.619E-03	0.0001	4.086E-04	0.0000	6.661E-01	0.0565
J-238	1.730E+00	0.1468	1.614E-04	0.0000	1.488E-06	0.0000	3.403E-01	0.0289	1.581E-03	0.0001	4.600E-03	0.0004	2.077E+00	0.1762
Total	9.810E+00	0.8325	5.348E-03	0.0005	4.276E-03	0.0004	1.927E+00	0.1635	1.270E-02	0.0011	2.460E-02	0.0021	1.178E+01	1.0000

\*Sum of all water independent and dependent pathways.

Contaminated Zone Dimensions		Initial Soil Concentrations, pCi/g	
Area:	150.00 square meters	U-234	2.370E+01
Thickness:	0.30 meters	U-235	5.000E-01
Lower Depth:	0.00 meters	U-238	6.000E+00

Total Dose TDOSE(t), mrem/yr										
Basic Radiation Dose Limit = 30 mrem/yr										
Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)										
t (years):	0.000E+00	1.000E+00	3.000E+00	1.000E+01	3.000E+01	1.000E+02	3.000E+02	5.000E+02	9.000E+02	1.000E+03
TDOSE(t):	3.702E+00	3.588E+00	3.370E+00	2.705E+00	1.447E+00	1.679E-01	9.028E-01	1.207E+00	1.264E+00	3.397E-01
M(t):	1.234E-01	1.196E-01	1.123E-01	9.018E-02	4.822E-02	5.596E-03	3.009E-02	4.023E-02	4.214E-02	1.132E-02

Maximum TDOSE(t): 3.702E+00 mrem/yr at t = 0.000E+00 years



**CIMMARON CORPORATION**  
**CIMMARON FACILITY**  
**PHASE III, SUB-AREA "O"**  
**WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**

**GRID LOCATION : 255E**

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g								
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	255	E	-	440	N	8	8	7	9	5	5			
2	255	E	-	445	N	5	8	6	10	5	7			
3	255	E	-	450	N	4	7	8	6	9	7			
4	255	E	-	455	N	5	8	7	11	8	10			
5	255	E	-	460	N	9	8	5	7	8	6			
6	260	E	-	430	N	8	8	9	6	11	8			
7	260	E	-	435	N	9	8	12	7	7	5			
8	260	E	-	440	N	12	9	8	9	8	6			
9	260	E	-	445	N	7	8	6	8	5	5			
10	260	E	-	450	N	6	6	10	9	7	4			
11	260	E	-	455	N	5	8	5	4	8	6			
12	260	E	-	460	N	8	7	7	8	3	7			
13	265	E	-	410	N	14	7	9	8	6	11			
14	265	E	-	415	N	9	7	6	8	5	10			
15	265	E	-	420	N	8	9	7	7	8	4			
16	265	E	-	425	N	5	9	7	5	9	7			
17	265	E	-	430	N	9	8	7	8	9	6			
18	265	E	-	435	N	5	4	8	4	7	8			
19	265	E	-	440	N	6	7	7	7	9	5			
20	265	E	-	445	N	7	12	9	8	5	8			
21	265	E	-	450	N	6	9	5	12	7	10			
22	265	E	-	455	N	5	6	6	11	9	8			
23	265	E	-	460	N	5	8	7	7	10	9			
24	265	E	-	465	N	10	9	8	8	7	5			
25														

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

Total U 4  
Th (Nat) 1.5

10  
1

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

BACKGROUND NOT SUBTRACTED

PAGE 1

FILE: WP1AOCSSR

*W. A. Rogers*

DATE: 3-11-98

CIMARRON COUNTY  
 CIMARRON UTILITY  
 PHASE III, SUB-AREA "O"  
 WASTE POND NO. 1

CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION : WASTE POND NO. 1

GRID LOCATION : 270E

DATE: 3/9/98

LN #	GRID NUMBE					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	270	E	-	390	N	10	11	11	9	9	10				
2	270	E	-	395	N	12	7	12	9	7	9				
3	270	E	-	400	N	10	10	6	8	6	7				
4	270	E	-	405	N	7	6	8	9	9	7				
5	270	E	-	410	N	7	9	7	10	8	8				
6	270	E	-	415	N	9	7	7	7	7	8				
7	270	E	-	420	N	12	7	5	9	8	7				
8	270	E	-	425	N	7	8	9	10	5	7				
9	270	E	-	430	N	10	10	7	13	6	7				
10	270	E	-	435	N	9	8	9	7	7	8				
11	270	E	-	440	N	7	9	10	10	7	8				
12	270	E	-	445	N	5	6	11	7	11	14				
13	270	E	-	450	N	8	8	9	27	37	13	17	13	7	11
14	270	E	-	455	N	8	9	11	12	6	6				
15	270	E	-	460	N	8	11	7	7	5	6				
16	270	E	-	465	N	6	8	8	13	10	8				
17		E	-		N										
18		E	-		N										
19		E	-		N										
20		E	-		N										
21		E	-		N										
22		E	-		N										
23		E	-		N										
24		E	-		N										
25															

INSTRUMENTS:

BACKGROUND

MDA

Total U 4

10

Th (Nat) 1.5

1

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

BACKGROUND NOT SUBTRACTED

PAGE 2

FILE: WP1AOCSSR

*W. A. Rogers*

DATE: 3-11-98

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**CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**

**GRID LOCATION : 275E**

DATE: 3/9/98

LN #	GRID NUMBE					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	275	E	-	370	N	6	8	5	6	3	R				
2	275	E	-	375	N	8	5	8	7	10	11				
3	275	E	-	380	N	7	9	9	9	9	12				
4	275	E	-	385	N	4	6	9	7	12	9				
5	275	E	-	390	N	9	9	8	9	9	8				
6	275	E	-	395	N	17	6	8	10	5	8				
7	275	E	-	400	N	6	7	5	7	7	9				
8	275	E	-	405	N	6	2	4	8	5	7				
9	275	E	-	410	N	6	10	4	6	8	6				
10	275	E	-	415	N	4	4	6	6	5	5				
11	275	E	-	420	N	5	5	10	9	7	7				
12	275	E	-	425	N	7	7	7	11	6	10				
13	275	E	-	430	N	10	6	9	9	6	13				
14	275	E	-	435	N	5	8	13	10	11	6				
15	275	E	-	440	N	5	6	10	5	9	19	9	9	9	36
16	275	E	-	445	N	8	11	6	8	7	16				
17	275	E	-	450	N	7	9	11	7	16	19				
18	275	E	-	455	N	6	7	59	26	11	13				
19	275	E	-	460	N	10	9	7	9	4	9				
20	275	E	-	465	N	6	9	8	10	7	5				
21	275	E	-	470	N	5	6	9	7	6	6				
22	279	E	-	430	N	5	5	5	10	10	10	92	92	92	63
23	279	E	-	455	N	199	199	199	29	29	29	39	39	39	R
24		E	-		N										
25															

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4

10

Th (Nat) 1.5

1

BACKGROUND NOT SUBTRACTED

PAGE 3

FILE: WP1AOCSSR

*W. A. Rogers*

DATE: 3-11-98

**CIMARRON CORPORATION**  
**CIMARRON FACILITY**  
**PHASE III, SUB-AREA "O"**  
**WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**

**GRID LOCATION : 280E**

DATE: 3/9/98

LN #	GRID NUMBE					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	280	E	-	355	N	12	7	6	R	R	R				
2	280	E	-	360	N	7	6	8	5	R	R				
3	280	E	-	365	N	6	9	8	7	5	R				
4	280	E	-	370	N	9	7	6	4	8	5				
5	280	E	-	375	N	5	12	7	6	6	8				
6	280	E	-	380	N	9	10	10	10	8	8				
7	280	E	-	385	N	6	8	8	8	9	6				
8	280	E	-	390	N	3	8	9	7	8	6				
9	280	E	-	395	N	8	7	7	11	6	6				
10	280	E	-	400	N	5	9	8	8	11	8				
11	280	E	-	405	N	5	9	8	7	6	6				
12	280	E	-	410	N	8	8	8	8	9	8				
13	280	E	-	415	N	6	6	7	4	7	11				
14	280	E	-	420	N	7	6	13	10	12	11				
15	280	E	-	425	N	6	8	19	6	11	6				
16	280	E	-	429	N	6	6	6	42	42	42	39	39	39	57
17	280	E	-	430	N	7	7	9	9	6	15	7	151	130	103
18	280	E	-	431	N	4	4	4	8	8	8	25	25	25	13
19	280	E	-	435	N	9	11	9	5	6	5				
20	280	E	-	440	N	5	10	9	10	7	6				
21	280	E	-	445	N	8	4	5	6	6	7				
22	280	E	-	450	N	10	8	8	4	10	8				
23	280	E	-	454	N	27	27	27	22	22	22	21	21	21	88
24	280	E	-	455	N	107	66	44	42	26	32	18	18	18	188
25	280	E	-	456	N	22	22	22	20	20	20	17	17	17	33

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

Total U 4

10

Th (Nat) 1.5

1

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

BACKGROUND NOT SUBTRACTED

PAGE 4

FILE: WP1AOCSSR

*W. A. Rogers*

DATE: 3-11-98

CIMARRON CORPORATION

CIMARRON FACILITY

PHASE III, SUB-AREA "O"

WASTE POND NO. 1

CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION : WASTE POND NO. 1

GRID LOCATION : 280E

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	280	E	-	460	N	5	7	10	8	9	8				
2	280	E	-	465	N	7	6	7	10	11	8				
3	280	E	-	470	N	7	7	8	8	8	7	7	10	8	9
4	281	E	-	430	N	5	5	5	4	4	4	11	11	11	7
5	281	E	-	455	N	46	46	46	33	33	33	23	23	23	97
6	284	E	-	420	N	11	7	7	9	13	41	89	36	36	22
7	284	E	-	430	N	9	5	9	7	5	10	11	12	10	
8	284	E	-	450	N	11	8	13	5	9	8	179	99	88	
9	284	E	-	455	N	7	10	23	13	28	R	R	R	R	R
10	285	E	-	355	N	10	5	10	7	R	R				
11	285	E	-	360	N	5	8	8	8	11	6				
12	285	E	-	365	N	8	6	10	6	1	5				
13	285	E	-	370	N	7	7	7	7	10	6				
14	285	E	-	375	N	7	11	4	5	7	8				
15	285	E	-	380	N	7	6	5	7	8	6				
16	285	E	-	385	N	7	7	9	5	7	7				
17	285	E	-	390	N	10	9	8	8	6	4				
18	285	E	-	395	N	11	6	5	7	7	10				
19	285	E	-	400	N	8	6	10	6	4	11				
20	285	E	-	405	N	7	7	6	17	6	9				
21	285	E	-	410	N	7	7	7	7	11	18				
22	285	E	-	415	N	8	12	7	12	9	12				
23	285	E	-	419	N	6	8	8	8	20	162	88	47	37	31
24	285	E	-	420	N	4	15	5	4	18	86				
25	285	E	-	421	N	6	4	8	6	7	89	163	57	27	
26	285	E	-	425	N	14	13	8	11	4	10				

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR

Total U 4

10

BACKGROUND NOT SUBTRACTED

Th (Nat) 1.5

1

PAGE 4A

*W.A. Rogers*

DATE: 3-11-98

FILE: WP1AOCSSR

**CIMARRON CORPORATION  
CIMA IN FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**

**GRID LOCATION : 285E**

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	285	E	-	425	N	14	13	8	11	4	10				
2	285	E	-	429	N	5	9	4	6	5	32	66	67	R	R
3	285	E	-	430	N	9	4	8	7	6	57				
4	285	E	-	431	N	10	7	22	6	9	9	27	45	18	
5	285	E	-	435	N	10	7	8	5	7	11				
6	285	E	-	440	N	12	8	11	8	6	24	3	3	3	7
7	285	E	-	445	N	7	7	11	9	6	7				
8	285	E	-	449	N	5	4	9	7	8	8	106	118	65	
9	285	E	-	450	N	8	6	8	9	8	46	R			
10	285	E	-	451	N	7	5	10	13	10	9	391	193	127	
11	285	E	-	454	N	8	14	12	5	7	7	210	384	185	95
12	285	E	-	455	N	9	15	13	30	17	32				
13	285	E	-	456	N	11	8	7	16	20	42	11	17	15	R
14	285	E	-	460	N	14	4	4	5	11	7				
15	285	E	-	465	N	14	6	11	6	6	10				
16	285	E	-	470	N	9	10	6	9	3	9				
17	285	E	-	475	N	5	8	8	8	6	5				
18	286	E	-	420	N	4	6	7	9	9	8	129	49	29	12
19	286	E	-	430	N	5	9	6	11	7	7	19	11	10	
20	286	E	-	450	N	7	9	6	7	5	9	160	190	130	
21	286	E	-	455	N	8	12	8	14	21	11	499	345	141	85
22	288	E	-	455	N	4									
23		E	-		N										
24		E	-		N										
25		E	-		N										

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

Total U 4

10

Th (Nat) 1.5

1

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

BACKGROUND NOT SUBTRACTED

PAGE 5

FILE: WP1AOCSSR

*W. A. Rogers*

DATE: 3-11-98



CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 1

CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION : WASTE POND NO. 1

GRID LOCATION : 289E

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	289	E	-	415	N	8	7	9	8	6	19	62	33	29	28
2	289	E	-	425	N	6	6	6	72	72	72	150	150	150	R
3	289	E	-	450	N	5	9	8	4	4	5	21	18	R	R
4	290	E	-	360	N	6	8	6	10	7	5				
5	290	E	-	365	N	6	5	8	5	8	7				
6	290	E	-	370	N	4	7	4	6	5	9				
7	290	E	-	375	N	11	5	4	7	9	7				
8	290	E	-	380	N	9	5	8	11	9	9				
9	290	E	-	385	N	7	9	6	6	9	9				
10	290	E	-	390	N	6	6	11	11	8	10				
11	290	E	-	395	N	8	6	8	5	R	R	R	R	R	R
12	290	E	-	400	N	7	8	8	14	12	8				
13	290	E	-	405	N	6	9	7	29	96	16	7	7	7	11
14	290	E	-	408	N	10	11	8	8	8	28	186	25	10	8
15	290	E	-	410	N	10	3	7	9	12	9				
16	290	E	-	414	N	7	8	8	6	6	49	143	79	68	42
17	290	E	-	415	N	6	6	8	7	7	116				
18	290	E	-	416	N	11	9	5	7	13	20	113	79	39	36
19	290	E	-	420	N	8	10	6	8	6	26	19	19	19	32
20	290	E	-	424	N	8	8	8	118	118	118	167	167	167	R
21	290	E	-	425	N	9	10	4	10	69	50	136	136	R	R
22	290	E	-	426	N	9	9	9	27	27	27	26	26	26	33
23	290	E	-	430	N	6	7	7	8	8	9				
24	290	E	-	435	N	8	6	8	8	20	7				
25		E	-		N										

INSTRUMENTS:

BACKGROUND

MDA

Total U 4

10

Th (Nat) 1.5

1

CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR

BACKGROUND NOT SUBTRACTED

PAGE 5A

FILE: WP1AOCSSR

*W.A. Rogers*

DATE: 3-11-98

**CIMARRON CORPORATION**  
**CIMARRON FACILITY**  
**PHASE III, SUB-AREA "O"**  
**WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**

**GRID LOCATION : 290E**

**DATE: 3/9/98**

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	290	E	-	440	N	9	6	8	5	6	7				
2	290	E	-	445	N	10	8	10	9	8	11	16	16	16	24
3	290	E	-	449	N	7	7	11	7	7	32	40	35	38	R
4	290	E	-	450	N	7	6	8	7	7	9	9	39	217	133
5	290	E	-	451	N	4	6	4	9	6	41	180	163	81	77
6	290	E	-	455	N	8	7	5	23	8	8				
7	290	E	-	460	N	15	12	8	8	9	8				
8	290	E	-	465	N	10	10	6	6	7	5				
9	290	E	-	470	N	10	10	7	9	10	8				
10	290	E	-	475	N	10	6	5	11	6	7				
11	291	E	-	415.5	N	7	7	7	7	8	312	176	103	77	40
12	291	E	-	425	N	8	8	8	61	61	61	96	96	96	127
13	291	E	-	450	N	13	4	6	7	5	112	187	292	R	R
14	294	E	-	410	N	48	4	6	9	9	165	129	65	34	23
15	294	E	-	420	N	6	6	4	9	11	87	78	32	30	
16	294	E	-	425	N	8	10	9	12	13	210	218	227	186	
17	294	E	-	435	N	6	10	8	9	5	168	123			
18	294	E	-	440	N	9	3	4	10	8	30	17	10	10	
19	294	E	-	445	N	10	10	10	14	14	14	91	91	91	57
20		E	-		N										
21		E	-		N										
22		E	-		N										
23		E	-		N										
24		E	-		N										
25		E	-		N										10

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

Total U 4

10

Th (Nat) 1.5

1

**CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR**

**BACKGROUND NOT SUBTRACTED**

**PAGE 6**

**FILE: WP1AOCSSR**

*W. a. Rogers*

**DATE: 3-11-98**



**CIMARRON CORPORATION**  
**CIMARRON FACILITY**  
**PHASE III, SUB-AREA "O"**  
**WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**  
**GRID LOCATION : 295E**

DATE: 3/9/98

LN #	GRID NUMBE					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	295	E	-	360	N	9	7	6	4	9	7				
2	295	E	-	365	N	6	6	7	4	10	6				
3	295	E	-	370	N	7	7	6	7	9	5				
4	295	E	-	375	N	17	9	9	6	6	9				
5	295	E	-	380	N	8	2	5	8	9	8				
6	295	E	-	385	N	6	7	10	8	6	4				
7	295	E	-	390	N	5	13	13	6	9	9				
8	295	E	-	395	N	5	4	8	7	21	12				
9	295	E	-	400	N	6	8	6	9	6	15	12	R	R	R
10	295	E	-	405	N	8	4	8	9	8	9				
11	295	E	-	409	N	5	11	10	7	9	22	92	31	17	17
12	295	E	-	410	N	10	6	7	5	9	42				
13	295	E	-	411	N	6	7	5	6	12	80	121	66	41	25
14	295	E	-	415	N	8	7	5	8	8	14				
15	295	E	-	419	N	3	10	7	8	7	19	39	27	23	
16	295	E	-	420	N	6	9	9	5	15	197				
17	295	E	-	421	N	5	4	7	7	13	16	R	R	R	R
18	295	E	-	424	N	6	9	14	7	16	117	97	141	89	
19	295	E	-	425	N	10	6	8	6	10	35	24	R		
20	295	E	-	426	N	10	10	8	4	12	107	133	213	131	
21	295	E	-	430	N	16	6	8	8	6	18	25	25	25	15
22	295	E	-	434	N	4	7	7	8	9	29	23			
23	295	E	-	435	N	6	7	11	6	5	109	R	R		
24	295	E	-	436	N	5	8	8	8	11	20	25			
25	295	E	-	439	N	11	6	5	10	5	38	88	39	R	

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

Total U 4  
Th (Nat) 1.5

10  
1

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

BACKGROUND NOT SUBTRACTED

PAGE 7

FILE: WP1AOCSSR

*W. A. Rogers*

DATE: 3-11-98

CIMARRON CORPORATION  
 CIMARRON FACILITY  
 PHASE III, SUB-AREA "O"  
 WASTE POND NO. 1

CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION : WASTE POND NO. 1  
 GRID LOCATION : 295E

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	295	E	-	440	N	8	6	6	6	12	307	R			
2	295	E	-	441	N	7	9	7	8	11	235	213	119	77	
3	295	E	-	444.5	N	6	6	6	77	77	77	201	201	201	
4	295	E	-	445	N	21	13	7	24	8	9				
5	295	E	-	446	N	8	8	8	8	8	8	9	9	9	7
6	295	E	-	450	N	13	6	11	9	6	6				
7	295	E	-	455	N	3	6	4	8	5	7				
8	295	E	-	460	N	4	18	14	19	R	R	R	R	R	R
9	295	E	-	465	N	6	9	7	7	7	6				
10	295	E	-	470	N	7	11	6	4	8	4				
11	295	E	-	475	N	6	5	8	8	5	9				
12	295	E	-	480	N	9	9	6	8	9	9				
13	296	E	-	410	N	5	6	5	8	10	95	80	38	29	15
14	296	E	-	420	N	7	9	10	11	18	25	15	17	12	
15	296	E	-	425	N	4	7	10	8	8	38	31	59	55	
16	296	E	-	435	N	10	4	9	7	6	50	47			
17	296	E	-	440	N	8	10	5	6	28	61	198	116	R	
18	296	E	-	445	N	22	22	22	6	6	6	3	3	3	R
19	299	E	-	385	N	5	10	5	9	28	28	47	56	15	13
20	299	E	-	415	N	9	8	6	9	7	68	95	57	26	17
21	299	E	-	430	N	11	6	7	7	13	242	224	187		
22		E	-		N										
23		E	-		N										
24		E	-		N										
25		E	-		N										

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTO

Total U 4

10

BACKGROUND NOT SUBTRACTED

Th (Nat) 1.5

1

PAGE 8

FILE: WP1AOCSSR

*W. A. Rogers*

DATE: 3-11-98

**CIMMARON CORPORATION  
CIMMARON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**  
**GRID LOCATION : 300E**

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	300	E	-	365	N	5	5	7	5	10	10				
2	300	E	-	370	N	7	7	6	6	6	5				
3	300	E	-	375	N	10	5	9	9	7	11				
4	300	E	-	380	N	5	15	13	10	8	8				
5	300	E	-	384	N	9	4	13	5	23	33	31	23	19	10
6	300	E	-	385	N	5	7	15	6	144	140				
7	300	E	-	386	N	4	8	8	10	14	76	65	42	31	18
8	300	E	-	390	N	8	5	8	7	9	25	47	31	24	13
9	300	E	-	395	N	8	8	5	7	10	8				
10	300	E	-	400	N	9	9	5	8	8	11				
11	300	E	-	405	N	12	10	5	6	9	14				
12	300	E	-	410	N	8	8	6	5	9	7				
13	300	E	-	414	N	7	8	6	13	7	92	80	26	26	20
14	300	E	-	415	N	10	9	7	9	6	47				
15	300	E	-	416	N	6	7	7	7	11	70	32	29	24	20
16	300	E	-	420	N	6	9	6	8	6	22	33	33	33	32
17	300	E	-	425	N	5	11	5	5	9	17	20	R	R	R
18	300	E	-	429	N	11	9	5	6	16	179	245	154		
19	300	E	-	430	N	8	6	8	37	91	177	R			
20	300	E	-	431	N	8	6	6	14	42	98	140	R		
21	300	E	-	435	N	6	11	11	5	8	13				
22	300	E	-	440	N	10	9	7	8	7	9				
23	300	E	-	445	N	7	8	7	7	9	7				
24	300	E	-	450	N	9	6	6	9	5	7				
25	300	E	-	455	N	8	8	5	R	R	R	R	R	R	R

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4

10

Th (Nat) 1.5

1

BACKGROUND NOT SUBTRACTED

PAGE 9

FILE: WP1AOCSSR

*W.G. Rogers*

DATE: 3-11-98

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 1

CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION : WASTE POND NO. 1

GRID LOCATION : 300E

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	300	E	-	460	N	14	12	15	27	24	18				
2	300	E	-	465	N	8	9	8	11	7	4				
3	300	E	-	470	N	7	8	8	5	8	8				
4	301	E	-	385	N	7	9	6	8	15	32	21	25	22	23
5	301	E	-	415	N	8	8	8	4	8	11	16	19	14	14
6	301	E	-	430	N	8	11	8	166	173	285	124	R		
7	301	E	-	432	N	5	6	6	39	114	65	189	99	40	23
8	304	E	-	405	N	6	4	6	8	10	10	125	76	44	30
9	304	E	-	415	N	5	5	9	10	7	17	47	40	33	40
10	304	E	-	420	N	7	6	6	5	25	173	67	74	61	34
11	305	E	-	365	N	7	7	8	5	5	8				
12	305	E	-	370	N	8	9	7	7	7	8				
13	305	E	-	375	N	9	9	5	7	8	10				
14	305	E	-	380	N	10	6	5	8	8	4				
15	305	E	-	385	N	7	6	6	9	7	23	16	16	16	10
16	305	E	-	390	N	9	6	7	8	8	14				
17	305	E	-	395	N	11	13	9	4	8	8				
18	305	E	-	400	N	6	7	8	9	5	10				
19	305	E	-	404	N	8	6	6	6	10	74	63	25	17	14
20	305	E	-	405	N	9	12	5	8	11	97				
21	305	E	-	406	N	7	9	8	9	4	56	64	49	30	23
22	305	E	-	410	N	18	8	5	5	6	9				
23	305	E	-	414	N	7	8	5	8	7	63	83	46	25	21
24	305	E	-	415	N	6	9	8	8	435	461				
25	305	E	-	416	N	6	6	5	7	6	202	135	122	100	70
26	305	E	-	419	N	7	4	9	11	43	16	34	50	50	33

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4

10

BACKGROUND NOT SUBTRACTED

Th (Nat) 1.5

1

PAGE 10

FILE: WP1AOCSSR

*W. Q. Rogers*

DATE: 3-11-98

**CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**

**GRID LOCATION : 305E**

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	305	E	-	420	N	8	5	9	22	111	199				
2	305	E	-	421	N	8	6	7	8	20	27	20	19	21	R
3	305	E	-	425	N	7	13	5	13	6	7				
4	305	E	-	430	N	8	6	4	8	8	7				
5	305	E	-	435	N	4	8	6	8	7	9				
6	305	E	-	440	N	11	7	9	R	R	R	R	R	R	R
7	305	E	-	445	N	6	7	6	6	4	8				
8	305	E	-	450	N	9	8	4	6	11	10				
9	305	E	-	455	N	6	6	4	5	12	7				
10	305	E	-	460	N	10	9	8	8	5	6				
11	306	E	-	405	N	7	10	6	7	8	78	40	28	20	17
12	306	E	-	415	N	7	9	5	5	11	76	109	58	58	56
13	306	E	-	420	N	7	6	15	46	50	39	49	38	42	R
14	309	E	-	415	N	8	9	11	10	50	72	28	18	19	20
15		E	-		N										
16		E	-		N										
17		E	-		N										
18		E	-		N										
19		E	-		N										
20		E	-		N										
21		E	-		N										
22		E	-		N										
23		E	-		N										
24		E	-		N										
25		E	-		N										

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4

10

Th (Nat) 1.5

1

BACKGROUND NOT SUBTRACTED

PAGE 11

FILE: WP1AOCSSR

*W.A. Rogers*

DATE: 3-11-98

**CIMARRON CORPORATION**  
**CIMARRON FACILITY**  
**PHASE III, SUB-AREA "O"**  
**WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**

**GRID LOCATION : 310E**

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	310	E	-	370	N	7	9	6	6	9	8				
2	310	E	-	375	N	5	9	5	6	7	8				
3	310	E	-	380	N	6	6	6	4	R	R	R	R	R	R
4	310	E	-	385	N	10	10	14	17	10	11				
5	310	E	-	390	N	8	7	7	7	7	8				
6	310	E	-	395	N	9	5	7	9	9	7				
7	310	E	-	400	N	9	10	6	7	9	9				
8	310	E	-	405	N	11	5	10	6	R	R	R	R	R	R
9	310	E	-	410	N	4	17	10	12	63	38	50	21	13	10
10	310	E	-	414	N	6	40	16	28	12	68	34	19	18	17
11	310	E	-	415	N	5	18	10	5	8	47				
12	310	E	-	416	N	12	10	7	8	5	24	16	5	8	6
13	310	E	-	420	N	5	9	9	7	10	8				
14	310	E	-	425	N	7	10	R	R	R	R	R	R	R	R
15	310	E	-	430	N	10	7	7	10	9	9				
16	310	E	-	435	N	5	9	7	R	R	R	R	R	R	R
17	310	E	-	440	N	3	9	9	5	8	6				
18	310	E	-	445	N	6	5	8	7	8	5				
19	310	E	-	450	N	10	4	6	6	6	4				
20	311	E	-	415	N	5	9	6	5	4	27	12	8	7	5
21	314	E	-	390	N	11	9	12	14	21	119	28	15	20	12
22	314	E	-	395	N	4	6	9	7	7	35	47	30	26	34
23	314	E	-	400	N	10	10	8	12	419	226	80	48	26	28
24		E	-		N										
25		E	-		N										

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

Total U 4

10

Th (Nat) 1.5

1

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

BACKGROUND NOT SUBTRACTED

PAGE 12

FILE: WP1AOCSSR

*W.A. Rogers*

DATE: 3-11-98



CIMARRON CORPORATION  
CIMA OIL FIELD FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 1

CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION : WASTE POND NO. 1

GRID LOCATION : 315E

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	315	E	-	370	N	7	6	8	4	9	9				
2	315	E	-	375	N	6	6	4	6	8	6				
3	315	E	-	380	N	10	7	5	7	9	5				
4	315	E	-	385	N	10	15	10	12	5	10				
5	315	E	-	389	N	8	7	7	13	72	48	21	16	11	18
6	315	E	-	390	N	5	11	6	7	47	162				
7	315	E	-	391	N	5	8	5	10	15	85	67	28	18	25
8	315	E	-	394	N	6	5	7	7	10	34	46	24	14	17
9	315	E	-	395	N	8	6	6	11	31	219				
10	315	E	-	396	N	10	10	6	7	11	133	11	103	39	R
11	315	E	-	399	N	9	4	9	22	171	191	100	59	38	32
12	315	E	-	400	N	13	14	37	42	99	142				
13	315	E	-	401	N	6	7	72	16	16	96	76	80	30	19
14	315	E	-	405	N	11	10	9	10	R	R	R	R	R	R
15	315	E	-	410	N	6	9	R	R	R	R	R	R	R	R
16	315	E	-	415	N	8	5	6	7	6	6				
17	315	E	-	420	N	8	4	11	R	R	R	R	R	R	R
18	315	E	-	425	N	6	8	11	R	R	R	R	R	R	R
19	315	E	-	430	N	7	11	6	7	6	7				
20	315	E	-	435	N	9	7	6	10	8	5				
21	315	E	-	440	N	8	13	11	6	7	5				
22	316	E	-	390	N	11	11	7	13	219	188	117	46	38	31
23	316	E	-	395	N	5	8	9	12	383	239	176	109	90	63
24	316	E	-	400	N	12	6	12	8	10	113	63	33	21	14
25		E	-		N										

INSTRUMENTS:

BACKGROUND

MDA

Total U 4

10

Th (Nat) 1.5

1

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

BACKGROUND NOT SUBTRACTED

PAGE 13

FILE: WP1AOCSSR

*W.A. Rogers*

DATE: 3-11-98

CIMMARON CORPORATION  
CIMMARON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 1

CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION : WASTE POND NO. 1

GRID LOCATION : 320E

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	320	E	-	375	N	4	9	7	6	11	10				
2	320	E	-	380	N	4	6	4	5	9	6				
3	320	E	-	385	N	8	8	8	7	6	8				
4	320	E	-	390	N	9	7	6	7	11	9	7	11	13	7
5	320	E	-	395	N	11	11	7	8	8	6				
6	320	E	-	400	N	7	9	8	7	12	8				
7	320	E	-	405	N	7	2	R	R	R	R	R	R	R	R
8	320	E	-	410	N	4	6	8	7	10	10				
9	320	E	-	415	N	8	5	8	7	6	11				
10	320	E	-	420	N	3	8	8	9	8	6				
11	320	E	-	425	N	6	6	8	9	3	7				
12	320	E	-	430	N	10	9	9	7	5	5				
13	325	E	-	375	N	30	9	8	10	8	13				
14	325	E	-	380	N	7	7	8	10	8	9				
15	325	E	-	385	N	5	6	R	R	R	R	R	R	R	R
16	325	E	-	390	N	6	8	8	R	R	R	R	R	R	R
17	325	E	-	395	N	10	8	R	R	R	R	R	R	R	R
18	325	E	-	400	N	11	7	R	R	R	R	R	R	R	R
19	325	E	-	405	N	13	10	6	9	8	7				
20	325	E	-	410	N	6	10	9	14	7	9				
21	325	E	-	415	N	6	8	5	9	6	4				
22	325	E	-	420	N	7	6	7	1	7	6				
23		E	-		N										
24		E	-		N										
25		E	-		N										

INSTRUMENTS:

BACKGROUND

MDA

Total U 4

10

Th (Nat) 1.5

1

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

BACKGROUND NOT SUBTRACTED

PAGE 14

FILE: WP1AOCSSR

*W.A. Rogers*

DATE: 3-11-98



**CIMARRON CORPORATION**  
**CIMARRON FACILITY**  
**PHASE III, SUB-AREA "O"**  
**WASTE POND NO. 1**

**CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION : WASTE POND NO. 1**

**GRID LOCATION : 330E**

DATE: 3/9/98

LN #	GRID NUMBER					pCi/g									
						0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'	6' - 7'	7' - 8'	8' - 9'	9' - 10'
						Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	330	E	-	380	N	9	14	R	R	R	R	R	R	R	R
2	330	E	-	385	N	6	6	R	R	R	R	R	R	R	R
3	330	E	-	390	N	11	9	8	8	10	9				
4	330	E	-	395	N	5	6	5	7	7	5				
5	330	E	-	400	N	8	8	18	15	9	7				
6	330	E	-	405	N	7	5	6	3	8	8				
7	330	E	-	410	N	9	11	11	13	11	5				
8	335	E	-	380	N	8	8	R	R	R	R	R	R	R	R
9	335	E	-	385	N	7	11	R	R	R	R	R	R	R	R
10	335	E	-	390	N	8	6	9	7	5	5				
11	335	E	-	395	N	8	11	6	10	R	R	R	R	R	R
12	340	E	-	385	N	11	7	6	9	R	R	R	R	R	R
13	340	E	-	390	N	7	9	11	12	8					
14		E	-		N										
15		E	-		N										
16		E	-		N										
17		E	-		N										
18		E	-		N										
19		E	-		N										
20		E	-		N										
21		E	-		N										
22		E	-		N										
23		E	-		N										
24		E	-		N										
25		E	-		N										

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

Total U 4

10

Th (Nat) 1.5

1

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

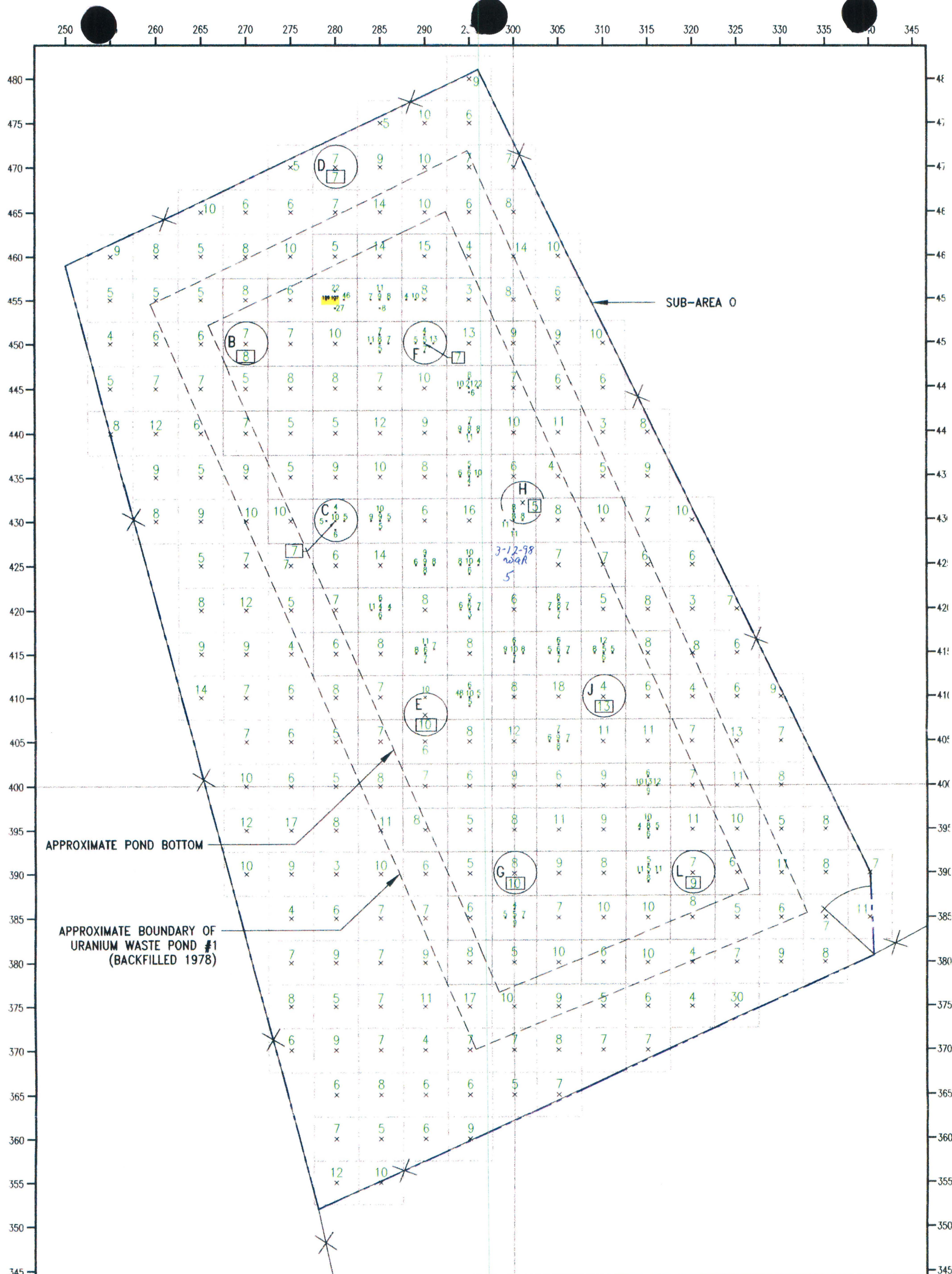
BACKGROUND NOT SUBTRACTED

PAGE 15

FILE: WP1AOCSSR

*W.A. Rogers*

DATE: 3-11-98



**NOTES**  
URANIUM (pCi/g U).  
CIMARRON GAMMA SPEC SOIL COUNTER.  
SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U,  
NOT SUBTRACTED.  
SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X  
5 METER GRID & THE OFFSET DATA.  
ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP  
DRILLING RESULTS

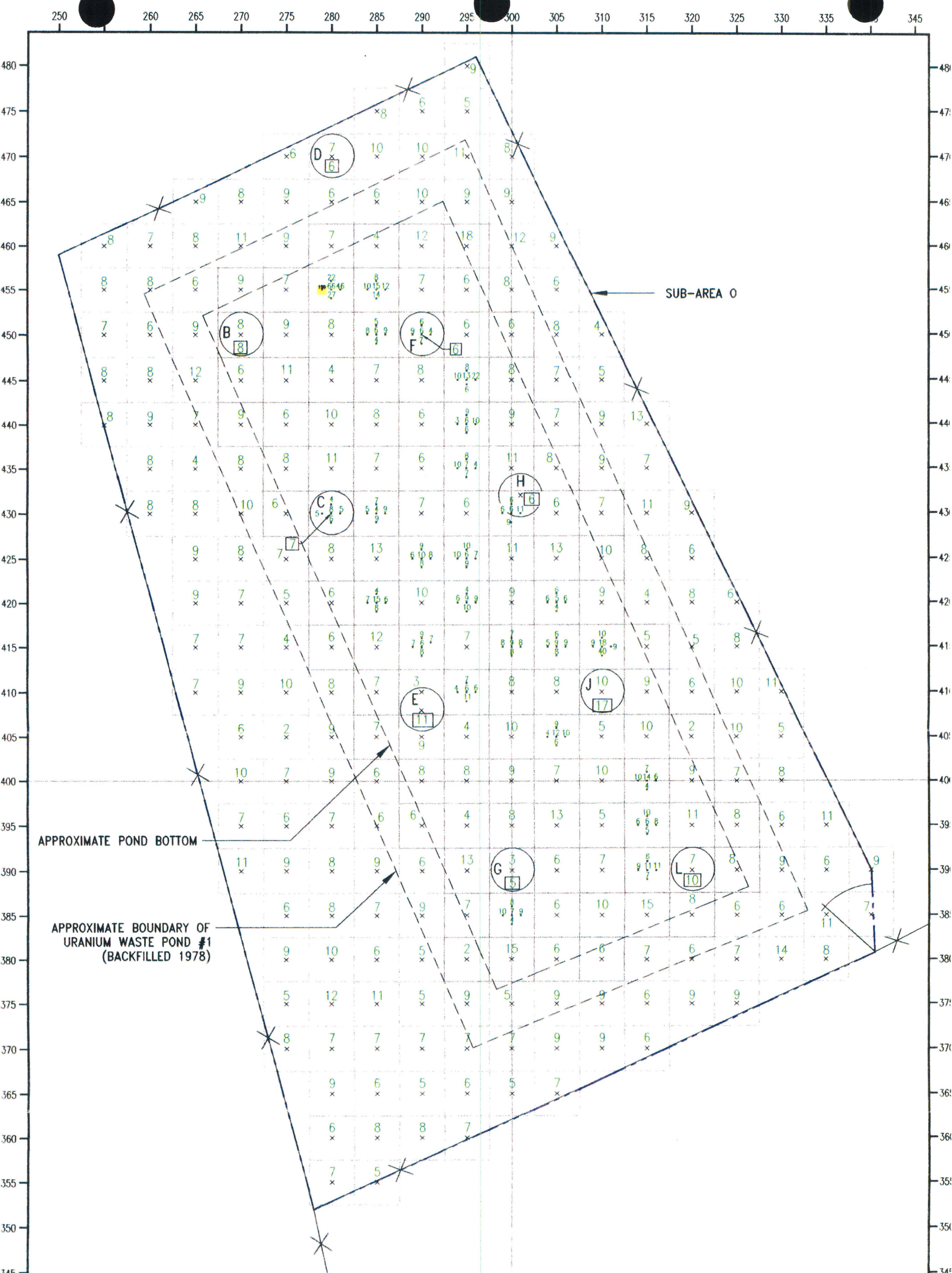
**LEGEND**  
6 URANIUM  
1 - 94 pCi/g U  
120 URANIUM  
95 - 219 pCi/g U  
245 URANIUM  
> 219 pCi/g U  
HIT ROCK -  
NO SAMPLE

**CIMARRON CORPORATION**  
  
CIMARRON FACILITY  
PHASE III - SUB-AREA 0  
URANIUM WASTE POND #1  
CHARACTERIZATION SOIL SAMPLE RESULTS  
SOIL SAMPLE ALIQUOT: 0 - 1'

REV.	DESCRIPTION	DRWN BY:	CK'D BY:	APP'D BY:	DATE
0	DRAWING ISSUED.	JE	RS	JL	3/2/98

DRWN. BY	DATE	SCALE:
JE	11/28/97	AS SHOWN
JOB NO.	DRAWING NO.	REV.
	97PRP1SS-0	0





**NOTES**  
URANIUM (pCi/g U).  
CIMARRON GAMMA SPEC SOIL COUNTER.  
SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U, NOT SUBTRACTED.  
SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X 5 METER GRID & THE OFFSET DATA.  
ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP DRILLING RESULTS.

**LEGEND**  
URANIUM  
1 - 94 pCi/g U  
95 - 219 pCi/g U  
> 219 pCi/g U  
HIT ROCK - NO SAMPLE

**CIMARRON CORPORATION**  
CIMARRON FACILITY  
PHASE III - SUB-AREA 0  
URANIUM WASTE POND #1  
CHARACTERIZATION SOIL SAMPLE RESULTS  
SOIL SAMPLE ALIQUOT: 1' - 2'

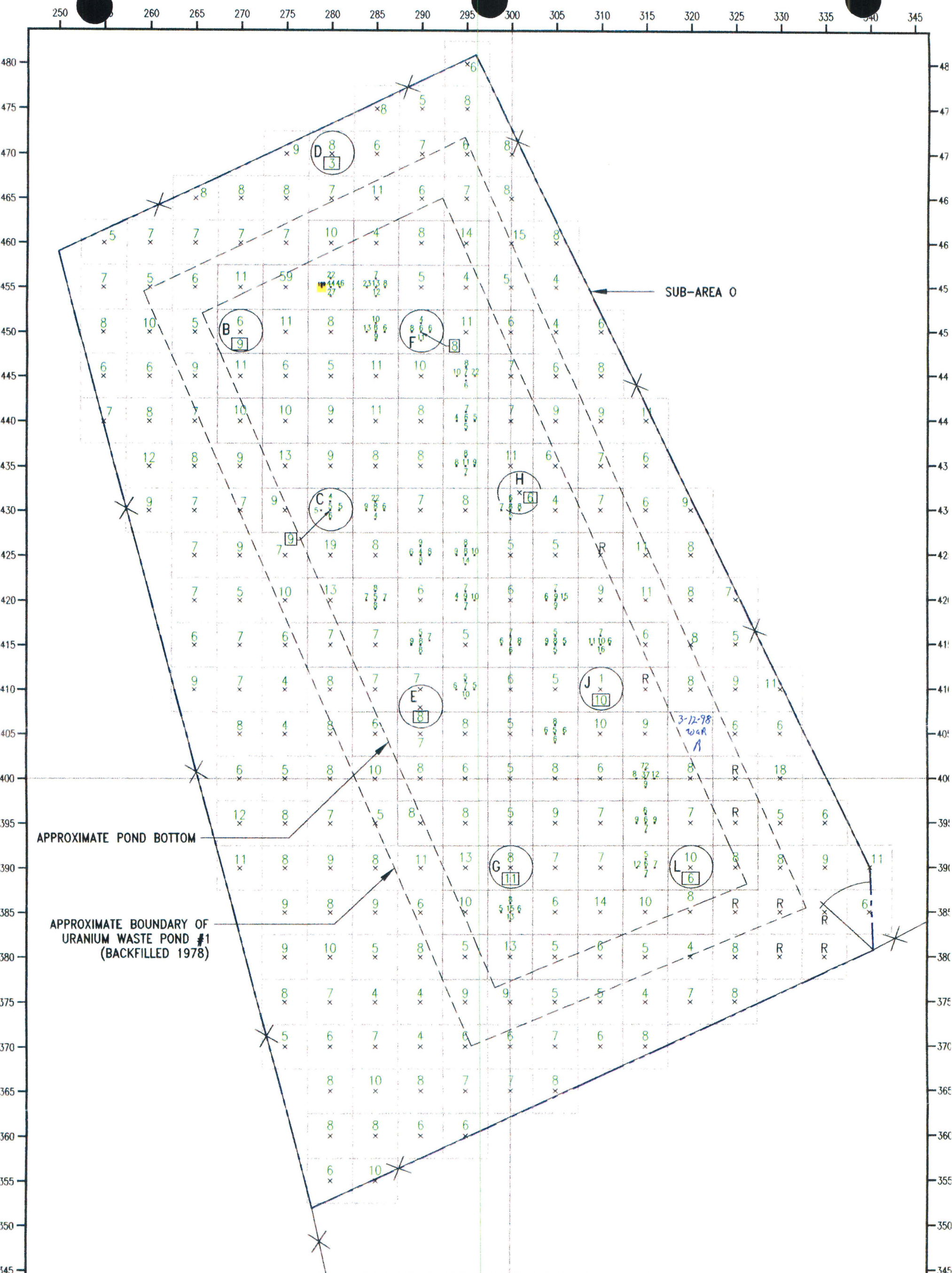
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0	DRAWING ISSUED.	JE	RS	JL	3/2/98	JE	11/28/97	AS SHOWN

JOB NO.

DRAWING NO. 97PRP1SS-1

REV. 0





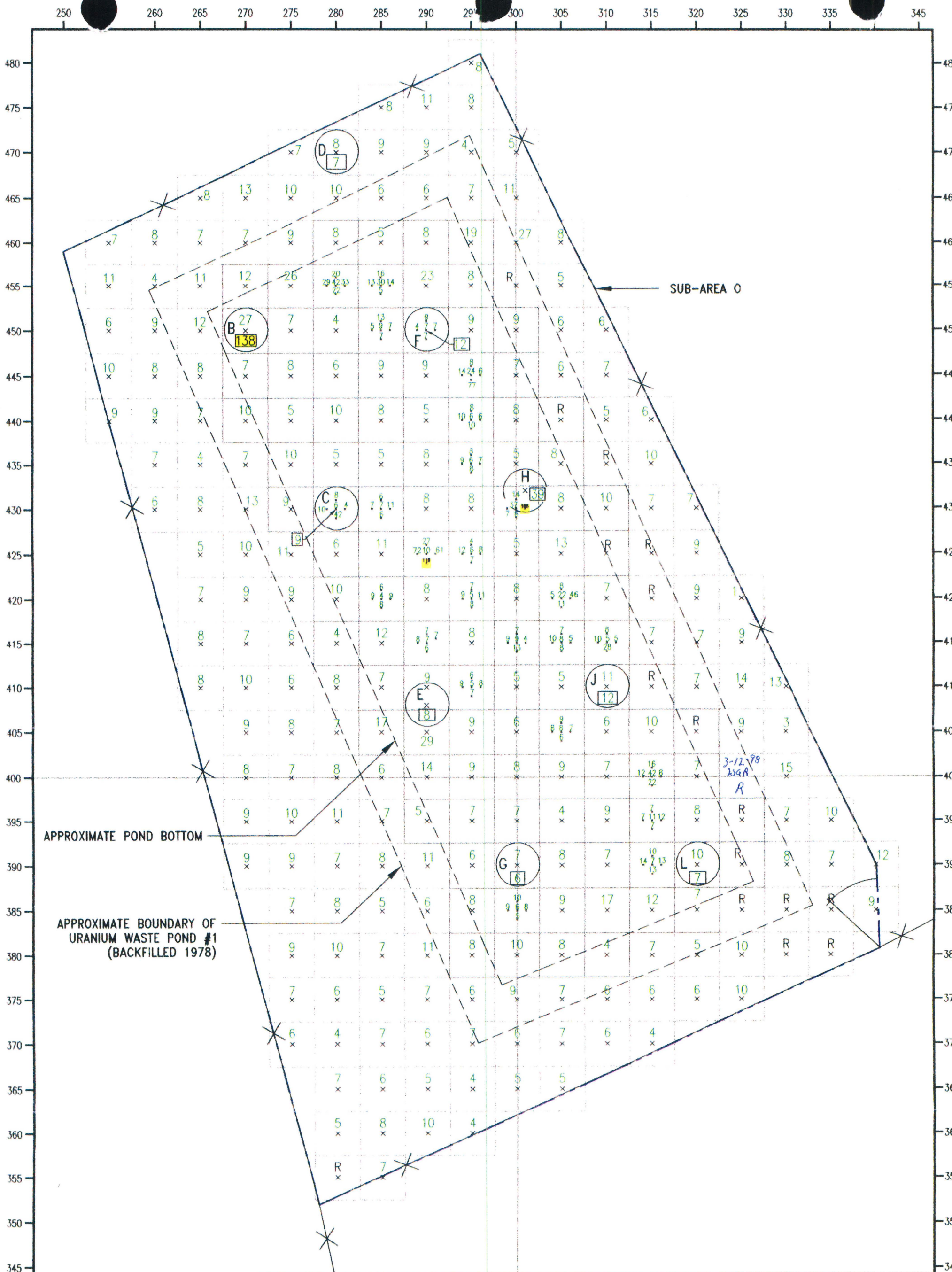
NOTES  
URANIUM (pCi/g U).  
CIMARRON GAMMA SPEC SOIL COUNTER.  
SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U,  
NOT SUBTRACTED.  
SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X  
5 METER GRID & THE OFFSET DATA.  
ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP  
DRILLING RESULTS

LEGEND  
6 URANIUM  
1 - 94 pCi/g U  
120 URANIUM  
95 - 219 pCi/g U  
245 URANIUM  
> 219 pCi/g U  
25 1993  
DEEP  
DRILLING  
SOIL  
SAMPLE  
RESULTS  
R HIT ROCK-  
NO SAMPLE

CIMARRON FACILITY PHASE III - SUB-AREA 0 URANIUM WASTE POND #1 CHARACTERIZATION SOIL SAMPLE RESULTS SOIL SAMPLE ALIQUOT: 2' - 3'			
DRWN. BY	JE	DATE	11/28/97
SCALE:	AS SHOWN		
JOB NO.	DRAWING NO.		97PRP1SS-2
REV.	0		

REV.	DESCRIPTION	DRWN BY:	CK'D BY:	APP'D BY:	DATE
0	DRAWING ISSUED.	JE	RS	JL	3/2/98





**NOTES**  
URANIUM (pCi/g U).  
CIMARRON GAMMA SPEC SOIL COUNTER.  
SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U, NOT SUBTRACTED.  
SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X 5 METER GRID & THE OFFSET DATA.  
ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP DRILLING RESULTS

**LEGEND**  
5 URANIUM 1 - 94 pCi/g U  
120 URANIUM 95 - 219 pCi/g U  
245 URANIUM > 219 pCi/g U  
R HIT ROCK - NO SAMPLE  
1993 DEEP DRILLING SOIL SAMPLE RESULTS

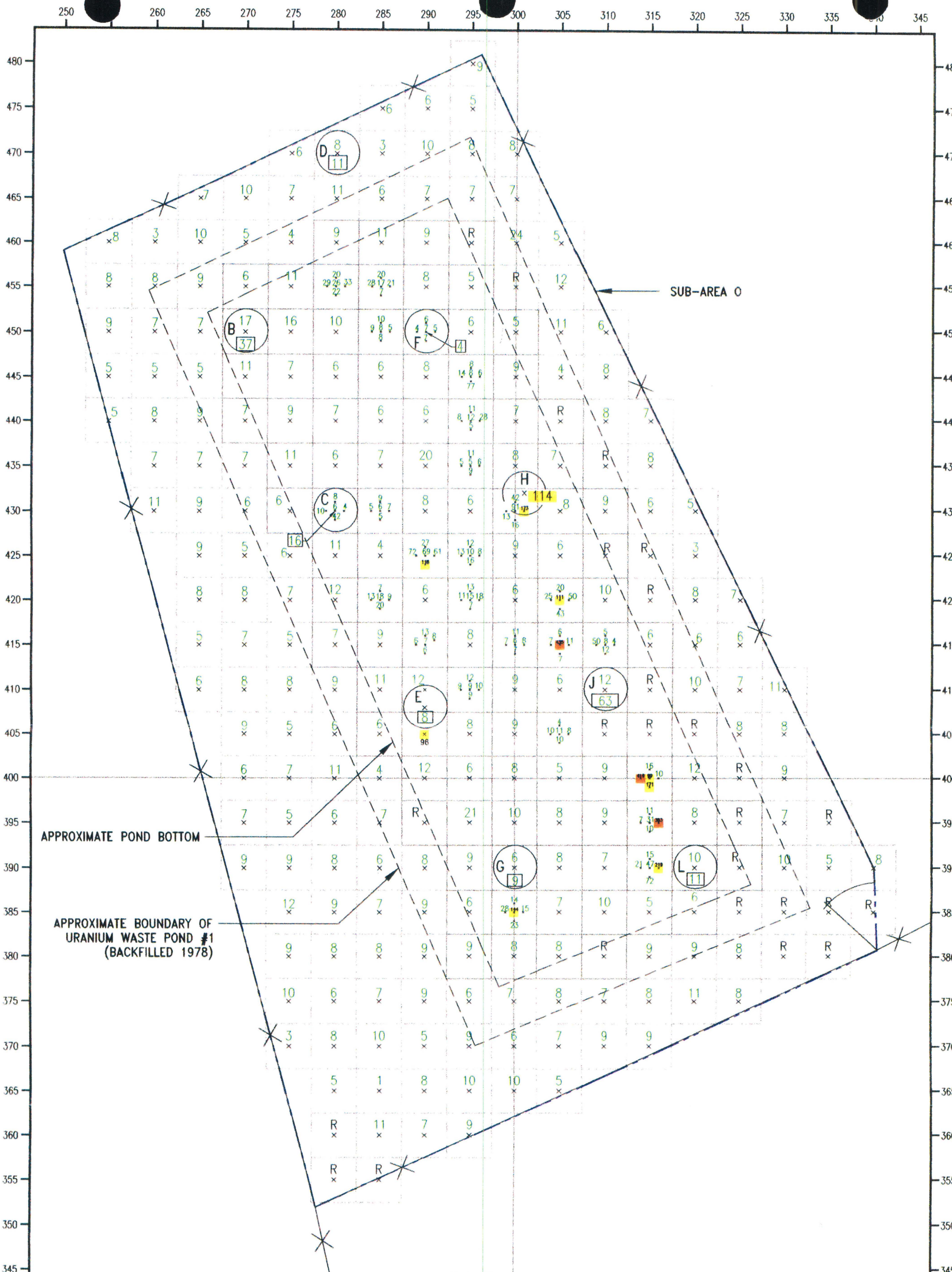
**CIMARRON CORPORATION**  
CIMARRON FACILITY  
PHASE III - SUB-AREA 0  
URANIUM WASTE POND #1  
CHARACTERIZATION SOIL SAMPLE RESULTS  
SOIL SAMPLE ALIQUOT: 3' - 4'

REV.	DESCRIPTION	DRWN BY	CK'D BY	APP'D BY	DATE
0	DRAWING ISSUED.	JE	RS	JL	3/2/98

DRWN BY	DATE	SCALE
JE	11/28/97	AS SHOWN

JOB NO.	DRAWING NO.	REV.
	97PRP1SS-3	0





**NOTES**  
URANIUM (pCi/g U).  
CIMARRON GAMMA SPEC SOIL COUNTER.  
SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U, NOT SUBTRACTED.  
SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X 5 METER GRID & THE OFFSET DATA.  
ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP DRILLING RESULTS

**LEGEND**  
6 URANIUM 1 - 94 pCi/g U  
120 URANIUM 95 - 219 pCi/g U  
245 URANIUM > 219 pCi/g U  
R HIT ROCK - NO SAMPLE

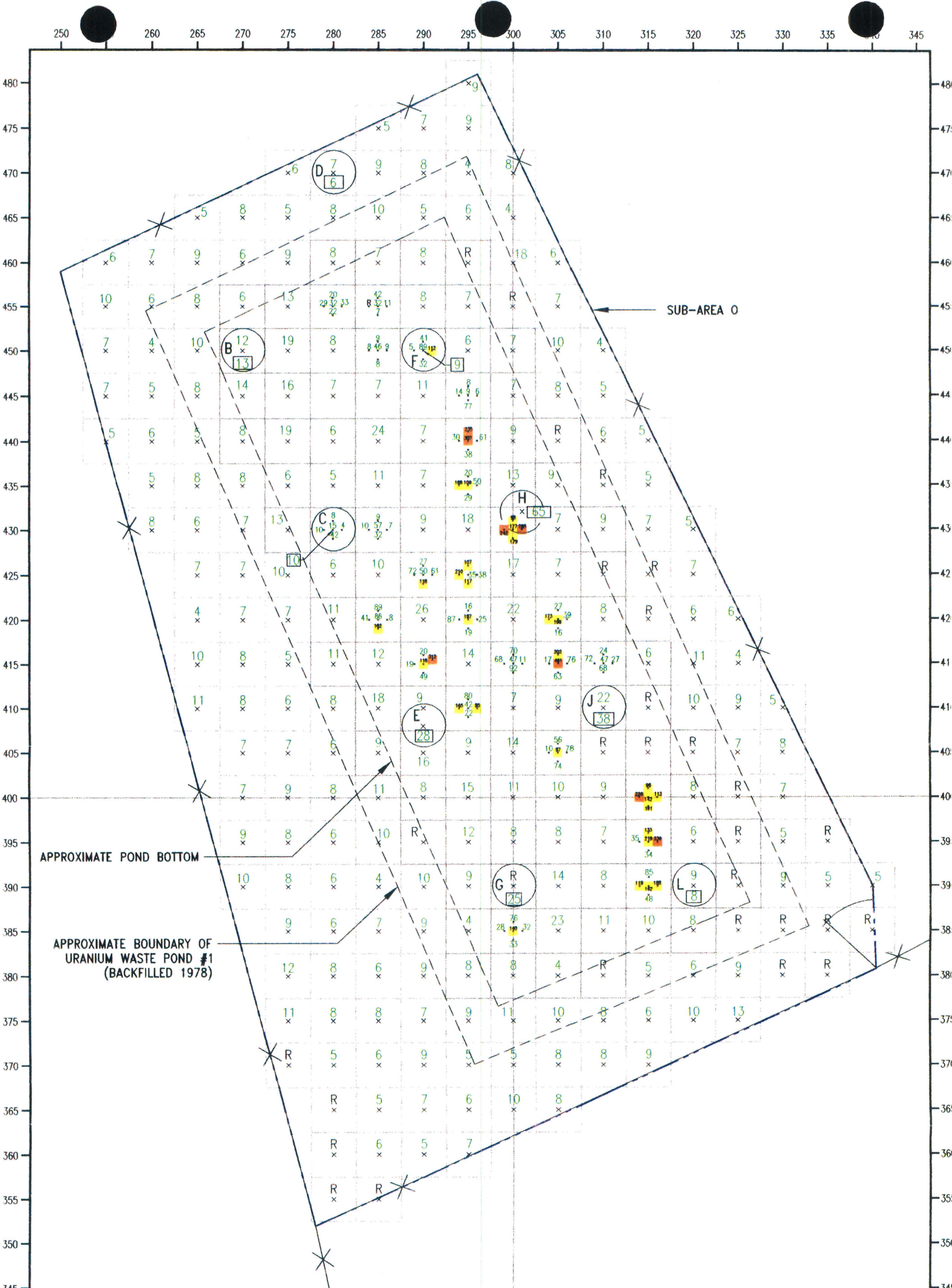
1993 DEEP DRILLING SOIL SAMPLE RESULTS

**CIMARRON CORPORATION**

**CIMARRON FACILITY  
PHASE III - SUB-AREA 0  
URANIUM WASTE POND #1  
CHARACTERIZATION SOIL SAMPLE RESULTS  
SOIL SAMPLE ALIQUOT: 4' - 5'**

DRWN. BY: JE	DATE: 11/28/97	SCALE: AS SHOWN
JOB NO.	DRAWING NO. 97PRP1SS-4	REV. 0





**NOTES**  
URANIUM (pCi/g U).  
CIMARRON GAMMA SPEC SOIL COUNTER.  
SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U, NOT SUBTRACTED.  
SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X 5 METER GRID & THE OFFSET DATA.  
ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP DRILLING RESULTS

**LEGEND**  
6 URANIUM 1 - 94 pCi/g U  
120 URANIUM 95 - 219 pCi/g U  
245 URANIUM > 219 pCi/g U  
R HIT ROCK - NO SAMPLE

**CIMARRON CORPORATION**  
CIMARRON FACILITY  
PHASE III - SUB-AREA 0  
URANIUM WASTE POND #1  
CHARACTERIZATION SOIL SAMPLE RESULTS  
SOIL SAMPLE ALIQUOT: 5' - 6'

REV.	DESCRIPTION	DRWN. BY	CHK'D BY	APP'D BY	DATE
0	DRAWING ISSUED.	JE	RS	JL	3/2/98

DRWN. BY	DATE	SCALE
JE	11/28/97	AS SHOWN

JOB NO.	DRAWING NO.	REV.
	97PRP1SS-5	0





NOTES

URANIUM (pCi/g U).

CIMARRON GAMMA SPEC SOIL COUNTER.

SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U, NOT SUBTRACTED.

SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X 5 METER GRID & THE OFFSET DATA.

ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP DRILLING RESULTS

LEGEND

6 x URANIUM 1 - 94 pCi/g U

120 x URANIUM 95 - 219 pCi/g U

245 x URANIUM > 219 pCi/g U

R HIT ROCK - NO SAMPLE

25 x 1993 DEEP DRILLING SOIL SAMPLE RESULTS

CIMARRON CORPORATION

CIMARRON FACILITY

PHASE III - SUB-AREA 0

URANIUM WASTE POND #1

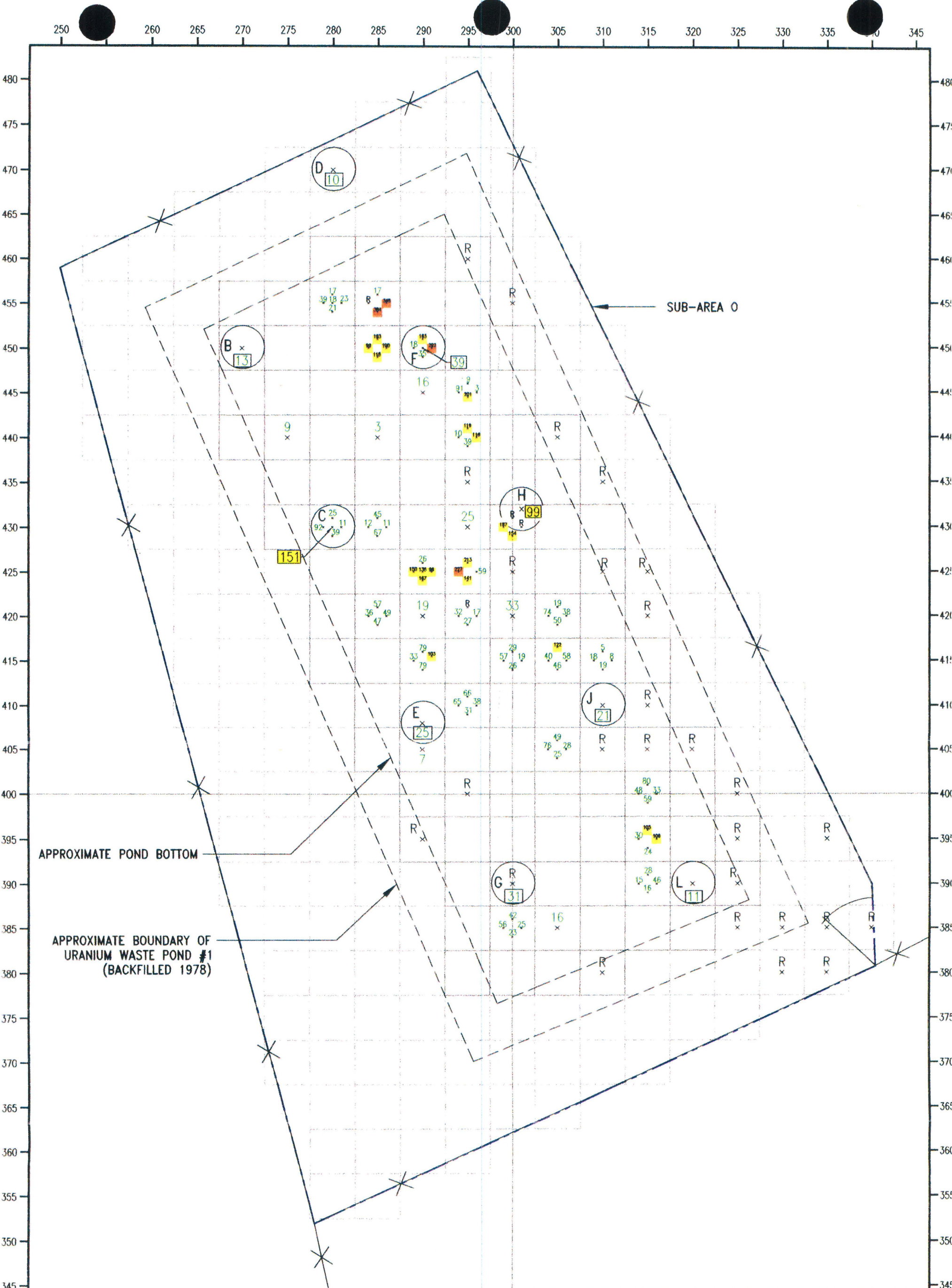
CHARACTERIZATION SOIL SAMPLE RESULTS

SOIL SAMPLE ALIQUOT: 6' - 7'

REV.	DESCRIPTION	DRWN BY:	CK'D BY:	APP'D BY:	DATE
0	DRAWING ISSUED.	JE	RS	JL	3/2/98

DRWN. BY	DATE	SCALE
JE	11/28/97	AS SHOWN
JOB NO.	DRAWING NO.	REV.
	97PRP1SS-6	0





**NOTES**  
URANIUM (pCi/g U).  
CIMARRON GAMMA SPEC SOIL COUNTER.  
SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U, NOT SUBTRACTED.  
SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X 5 METER GRID & THE OFFSET DATA.  
ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP DRILLING RESULTS

**LEGEND**  
6 URANIUM 1 - 94 pCi/g U  
120 URANIUM 95 - 219 pCi/g U  
245 URANIUM > 219 pCi/g U  
R HIT ROCK--NO SAMPLE  
1993 DEEP DRILLING SOIL SAMPLE RESULTS

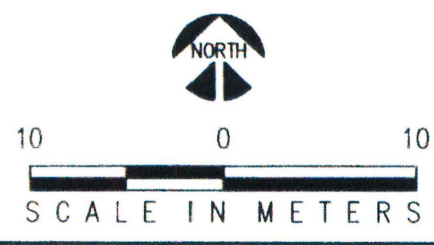
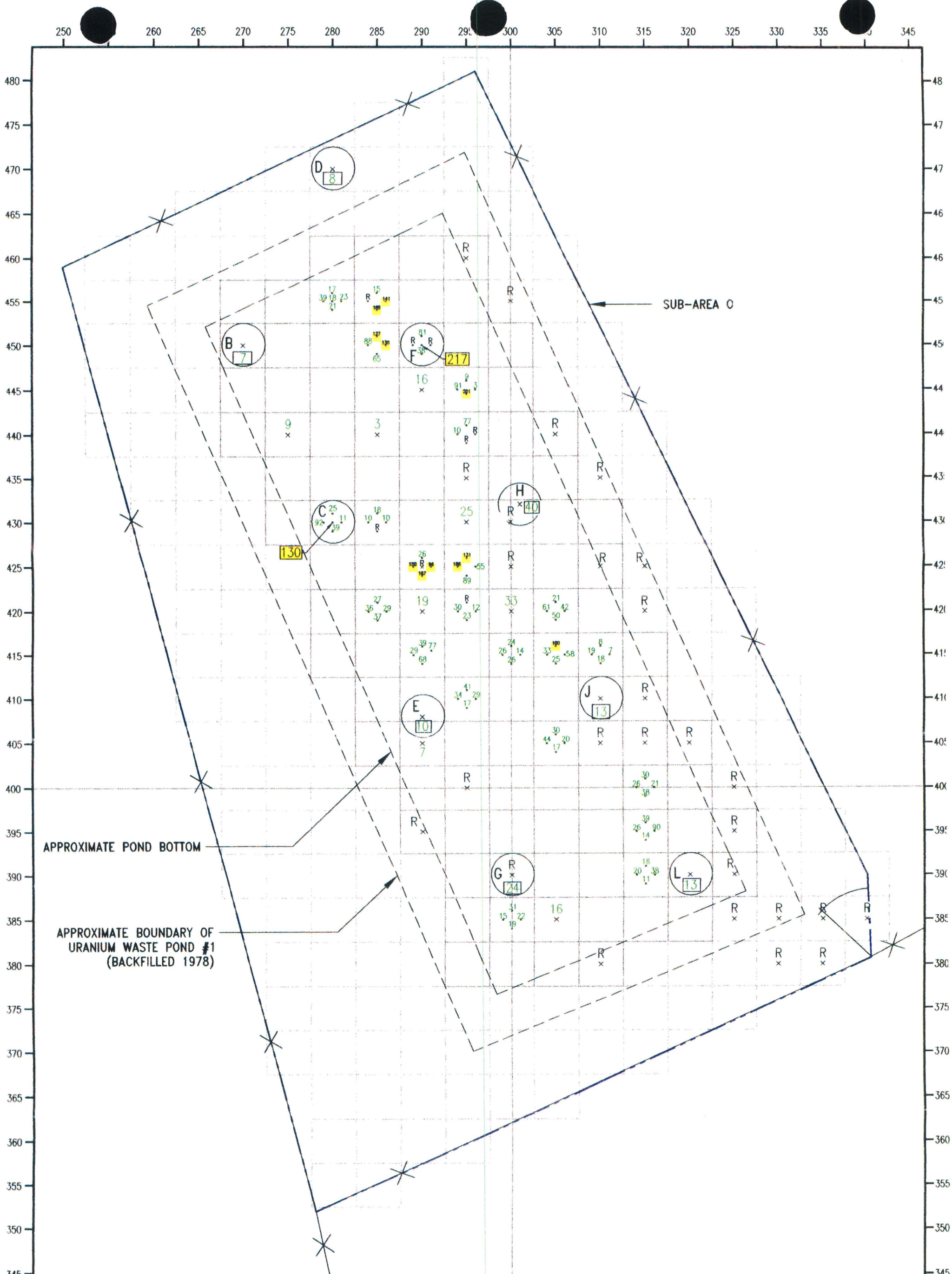
**CIMARRON CORPORATION**  
CIMARRON FACILITY  
PHASE III - SUB-AREA 0  
URANIUM WASTE POND #1  
CHARACTERIZATION SOIL SAMPLE RESULTS  
SOIL SAMPLE ALIQUOT: 7' - 8'



REV.	DESCRIPTION	DRWN BY:	CK'D BY:	APP'D BY:	DATE
0	DRAWING ISSUED.	JE	RS	JL	3/2/98

DRWN. BY:	DATE:	SCALE:
JE	11/28/97	AS SHOWN

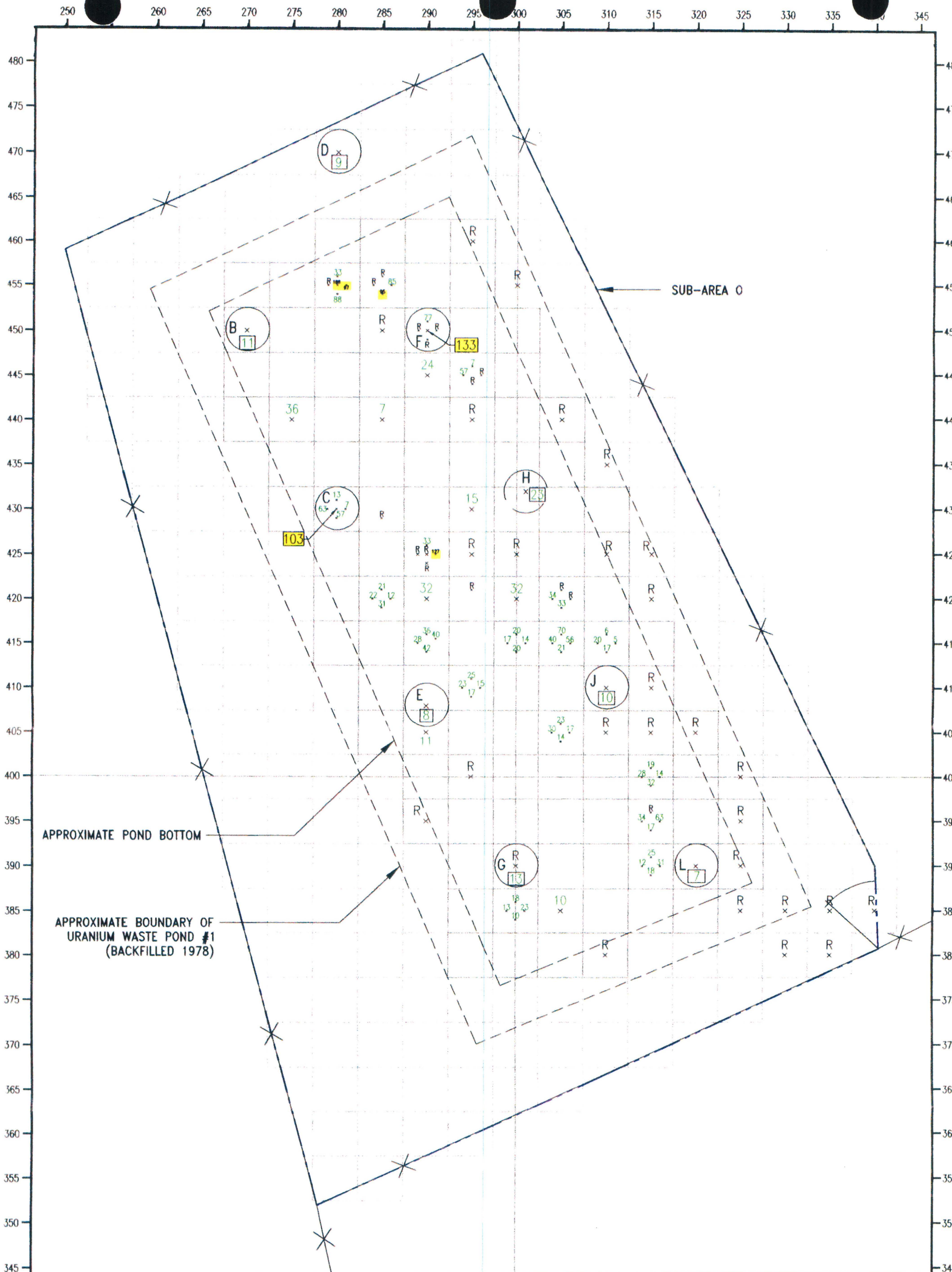
JOB NO.	DRAWING NO.	REV.
	97PRP1SS-7	0





<b>NOTES</b> URANIUM (pCi/g U). CIMARRON GAMMA SPEC SOIL COUNTER. SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U, NOT SUBTRACTED. SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X 5 METER GRID & THE OFFSET DATA. ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP DRILLING RESULTS				<b>LEGEND</b> 5 URANIUM 1 - 94 pCi/g U 120 URANIUM 95 - 219 pCi/g U 245 URANIUM > 219 pCi/g U B HIT ROCK - NO SAMPLE				 1993 DEEP DRILLING SOIL SAMPLE RESULTS			
REV. 0 DRAWING ISSUED.				DRWN BY: JE CK'D BY: RS APP'D BY: JL DATE: 3/2/98				 <b>CIMARRON CORPORATION</b>			
								<b>CIMARRON FACILITY PHASE III - SUB-AREA 0 URANIUM WASTE POND #1 CHARACTERIZATION SOIL SAMPLE RESULTS SOIL SAMPLE ALIQUOT: 8' - 9'</b>			
				DRWN. BY: JE				DATE: 11/28/97			
				JOB NO.				SCALE: AS SHOWN			
				DRAWING NO. 97PRP1SS-8				REV. 0			





NOTES

URANIUM (pCi/g U).

CIMARRON GAMMA SPEC SOIL COUNTER.

SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U, NOT SUBTRACTED.

SAMPLES INCLUDE THOSE TAKEN ON A 5 METER X 5 METER GRID & THE OFFSET DATA.

ITEMS B, C, D, E, F, G, H, J AND L ARE DEEP DRILLING RESULTS

LEGEND

6 URANIUM 1 - 94 pCi/g U

120 URANIUM 95 - 219 pCi/g U

245 URANIUM > 219 pCi/g U

R HIT ROCK-NO SAMPLE

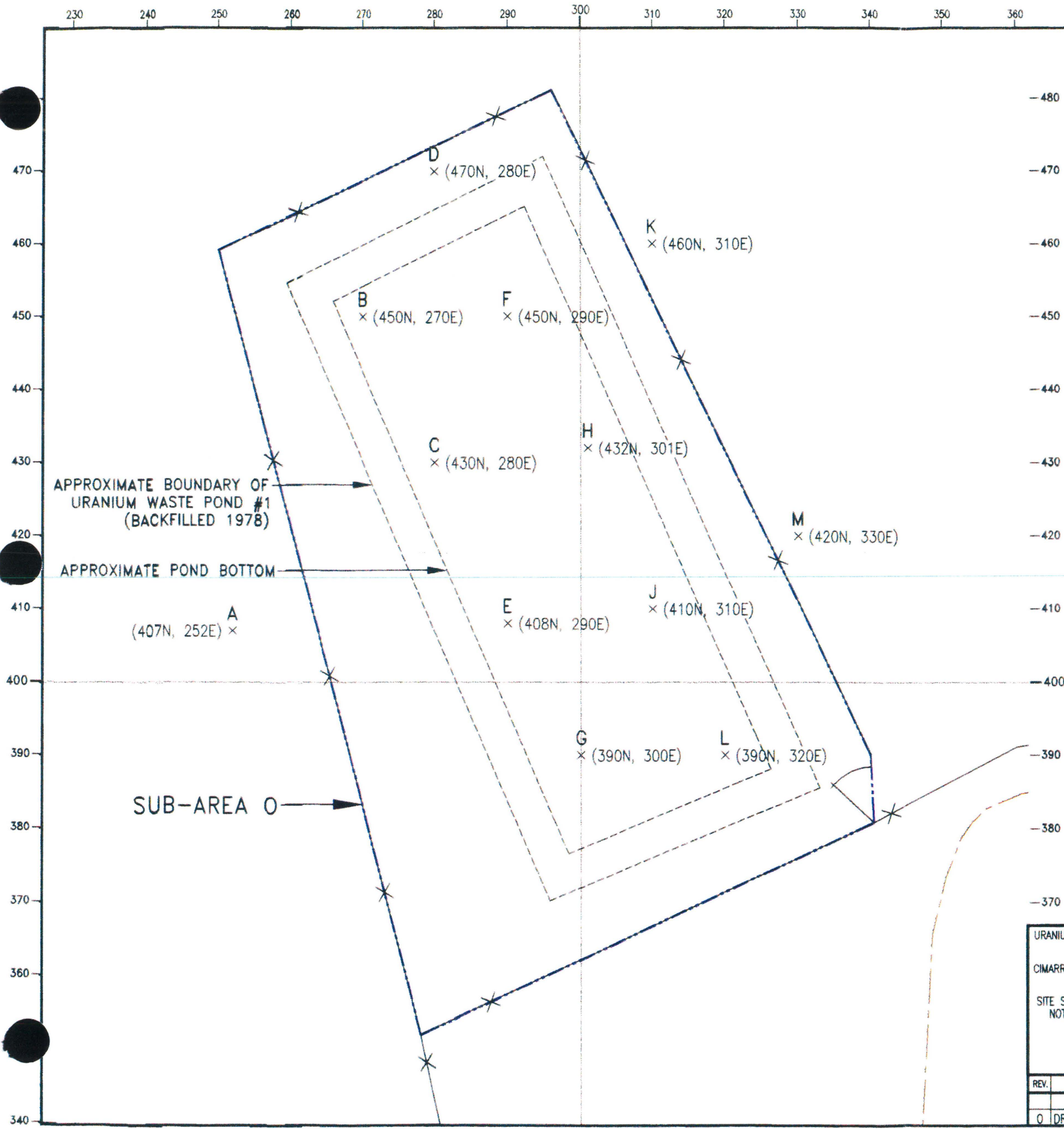
25 1993 DEEP DRILLING SOIL SAMPLE RESULTS

**CIMARRON CORPORATION**

CIMARRON FACILITY  
PHASE III - SUB-AREA 0  
URANIUM WASTE POND #1  
CHARACTERIZATION SOIL SAMPLE RESULTS  
SOIL SAMPLE ALIQUOT: 9' - 10'

DRWN. BY	JE	DATE	11/28/97	SCALE:	AS SHOWN
JOB NO.		DRAWING NO.	97PRP1SS-9	REV.	0





SOIL SAMPLE ALIQUOT		A	B	C	D	E	F	G	H	J	K	L	M
-480	0 - 1 Ft.	9	8	7	7	10	7	10	5	13	8	9	8
	1 Ft. - 2 Ft.	12	8	7	6	11	6	5	6	17	10	10	7
	2 Ft. - 3 Ft.	7	9	9	3	8	8	11	6	10	7	6	10
-470	3 Ft. - 4 Ft.	9	138	9	7	8	12	6	39	12	7	7	6
	4 Ft. - 5 Ft.	9	37	16	11	8	4	9	114	63	9	11	10
	5 Ft. - 6 Ft.	12	13	10	6	28	9	25	65	38	8	8	5
-460	6 Ft. - 7 Ft.	4	17	7	7	186	9	47	189	50	9	7	5
	7 Ft. - 8 Ft.	10	13	151	10	25	39	31	99	21	6	11	6
	8 Ft. - 9 Ft.	10	7	130	8	10	217	24	40	13	5	13	5
-450	9 Ft. - 10 Ft.	10	11	103	9	8	133	13	23	10	7	7	5
	10 Ft. - 11 Ft.	10	14	21	4	23	27	16	R	R	3	7	4
	11 Ft. - 12 Ft.	13	7	17	5	9	20	R	R	R	6	R	7



URANIUM (pCi/g U)  
CIMARRON GAMMA SPEC SOIL COUNTER.  
SITE SOIL BACKGROUND OF APPROX. 4.0 pCi/g U,  
NOT SUBTRACTED.

**LEGEND**  
6 URANIUM  
1 - 94 pCi/g U  
120 URANIUM  
95 - 219 pCi/g U  
245 URANIUM  
> 219 pCi/g U  
R HIT ROCK  
NO SAMPLE

**CIMARRON CORPORATION**  
  
CIMARRON FACILITY  
PHASE III - SUB-AREA O  
URANIUM DEEP DRILLING  
SOIL SAMPLE RESULTS

REV.	DESCRIPTION	DRWN BY:	CK'D BY:	APP'D BY:	DATE	DRWN BY:	DATE	SCALE:
0	DRAWING ISSUED.	JE	RS	JL	3/2/98	JE	9/26/96	AS SHOWN
JOB NO.						DRAWING NO. 96PRP1DD-0		REV. 0

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 490E &amp; 495E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	490E-430N	6	6	5	4	7
2	495E-430N	5	6	7	11	5
3	495E-435N	9	5	7	ROCK	
4	495E-440N	8	7	5	6	5
5	495E-445N	4	6	6	6	7
6	495E-450N	7	9	6	4	8
7	495E-455N	6	4	4	7	7
8	495E-460N	7	4	7	13	10

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

*W.A. Rogers*

DATE: 9-16-97

PAGE 1

FILE: AOPRCSSR

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CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 500E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	500E-429N	8	5	9	7	10	6
2	500E-430N	7	7	11	8	8	
3	500E-435N	6	8	7	7	5	
4	500E-440N	4	5	7	8	9	6
5	500E-445N	8	7	5	7	6	
6	500E-450N	11	4	8	10	7	10
7	500E-455N	6	7	4	12	7	
8	500E-460N	8	7	5	7	9	7
9	500E-465N	6	7	9	5	4	
10	500E-470N	9	9	9	5	5	6
11	500E-475N	12	11	8	11	5	
12	500E-480N	3	7	6	7	8	9
13	500E-485N	8	6	7	5	8	
14	500E-490N	3	7	5	6	6	6
15	500E-495N	4	6	5	5	7	
16	500E-500N	8	7	7	7	5	7
17	500E-505N	6	7	4	7	5	
18	500E-510N	8	6	9	ROCK		
19	500E-515N	6	5	5	6	6	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

PAGE 2

FILE AOPRCSSR

*W. A. Rogers*

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 500E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	500E-520N	8	5	5	5	9	6
2	500E-525N	7	6	ROCK			
3	500E-530N	7	6	8	4	3	ROCK
4	500E-535N	6	5	5	6	4	
5	500E-540N	7	8	6	ROCK		
6	500E-545N	5	6	ROCK			
7	500E-550N	6	11	4	8	4	4
8	500E-555N	13	6	6	9	9	
9	500E-560N	4	6	6	5	5	4
10	500E-565N	7	8	8	8	8	
11	500E-570N	4	4	8	7	8	8
12	500E-575N	7	8	4	7	10	
13	500E-580N	5	6	5	3	7	9
14	500E-585N	7	4	7	7	5	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4

10

Th (Nat) 1.5

1

BACKGROUND NOT SUBTRACTED

*W. A. Rogers*

DATE: 9-17-97

PAGE 3

FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 500E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	505E-430N	6	13	9	6	11
2	505E-435N	11	10	7	8	7
3	505E-440N	8	6	8	6	9
4	505E-445N	9	5	12	10	9
5	505E-450N	10	9	6	10	7
6	505E-455N	8	7	11	6	10
7	505E-460N	10	7	5	8	3
8	505E-465N	6	9	5	8	9
9	505E-470N	10	14	8	8	5
10	505E-475N	5	7	6	8	8
11	505E-480N	17	6	8	9	6
12	505E-485N	9	5	8	6	6
13	505E-490N	15	6	6	8	5
14	505E-495N	8	5	8	5	4
15	505E-500N	7	9	6	9	6
16	505E-505N	10	6	9	ROCK	
17	505E-510N	8	4	5	ROCK	
18	505E-515N	7	4	9	6	11

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTO

Total U 4

Th (Nat) 1.5

10

1

BACKGROUND NOT SUBTRACTED

W. A. Rogers

DATE:

9-17-97

PAGE 4

FILE: AOPRCSSR



CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION    WASTE POND NO. 2

GRID LOCATION    505E - 507E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	505E-520N	7	6	5	4	ROCK	
2	505E-525N	6	5	5	6	ROCK	
3	505E-530N	8	4	5	5	ROCK	
4	505E-535N	6	6	5	9	ROCK	
5	505E-540N	7	3	5	4	ROCK	
6	505E-545N	7	8	7	ROCK		
7	505E-550N	5	7	8	4	ROCK	
8	505E-555N	8	4	6	14	3	
9	505E-560N	5	7	6	7	5	
10	505E-565N	7	5	6	8	5	
11	505E-570N	6	5	8	7	9	
12	505E-575N	7	5	9	7	5	
13	505E-580N	8	5	6	5	8	
14	505E-585N	5	6	4	5	7	
15	507E-440N	9	7	10	9	8	8
16	507E-450N	11	7	6	7	6	7

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U    4  
Th (Nat)    1.5

10  
1

BACKGROUND NOT SUBTRACTED

PAGE 5

*W. G. Rogers*

DATE: 9-17-97

FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 510E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	510E-427N	6	6	10	9	6	8
2	510E-430N	9	7	7	6	11	
3	510E-435N	7	7	10	6	5	
4	510E-440N	7	6	8	7	10	
5	510E-445N	7	13	6	6	8	
6	510E-450N	14	7	7	13	7	
7	510E-455N	12	7	5	8	8	
8	510E-460N	7	10	9	6	4	
9	510E-465N	9	6	7	7	6	
10	510E-470N	9	4	5	8	5	9
11	510E-475N	7	11	8	7	7	
12	510E-480N	11	5	8	6	8	11
13	510E-485N	8	10	8	5	5	
14	510E-490N	9	6	10	ROCK		
15	510E-495N	7	12	8	5	ROCK	
16	510E-500N	8	6	3	5	ROCK	
17	510E-505N	11	6	6	ROCK		
18	510E-510N	4	3	3	7	ROCK	
19	510E-515N	6	9	8	ROCK		

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

PAGE 6

FILE: AOPRCSSR

*W. a. Rogers*

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 510E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	510E-520N	8	5	6	7	ROCK	
2	510E-525N	9	ROCK				
3	510E-530N	5	5	ROCK			
4	510E-535N	7	6	ROCK			
5	510E-540N	10	6	7	7	5	ROCK
6	510E-545N	4	6	6	6	6	
7	510E-550N	6	4	7	10	9	6
8	510E-555N	6	8	7	5	4	
9	510E-560N	7	6	10	8	6	6
10	510E-565N	4	6	7	7	7	
11	510E-570N	7	6	7	8	9	6
12	510E-575N	4	3	7	5	6	
13	510E-580N	9	10	5	6	5	8
14	510E-585N	3	5	5	7	5	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

PAGE 7

FILE: AOPRCSSR

*W. A. Rogers*

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION WASTE POND NO. 2GRID LOCATION 515E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	515E-430N	6	6	9	8	6
2	515E-435N	4	7	8	7	8
3	515E-440N	9	8	6	4	7
4	515E-445N	8	7	9	6	5
5	515E-450N	7	9	4	4	10
6	515E-455N	6	7	7	4	7
7	515E-460N	5	9	4	5	5
8	515E-465N	7	4	6	9	6
9	515E-470N	7	5	5	4	6
10	515E-475N	7	6	5	6	6
11	515E-480N	7	7	7	8	6
12	515E-485N	4	7	4	ROCK	
13	515E-490N	5	6	8	ROCK	
14	515E-495N	6	4	7	4	4
15	515E-500N	6	6	7	ROCK	
16	515E-505N	3	4	9	ROCK	
17	515E-510N	4	4	9	ROCK	
18	515E-515N	6	6	ROCK		

INSTRUMENTS:BACKGROUNDMDACIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOTotal U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

W. A. RogersDATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 515E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	515E-520N	3	6	7	ROCK	
2	515E-525N	7	5	ROCK		
3	515E-530N	8	5	ROCK		
4	515E-535N	5	6	7	ROCK	
5	515E-540N	6	7	10	6	ROCK
6	515E-545N	6	6	8	6	ROCK
7	515E-550N	14	6	9	ROCK	
8	515E-555N	6	4	5	9	6
9	515E-560N	13	9	8	6	7
10	515E-565N	9	9	11	9	6
11	515E-570N	9	7	7	4	8
12	515E-575N	6	6	3	6	9
13	515E-580N	5	4	6	10	5
14	515E-585N	6	7	6	8	4

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4

Th (Nat) 1.5

10

1

BACKGROUND NOT SUBTRACTED

*W. G. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 516E - 520E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	516.25E-546.25N			36			
2	516.25E-548.75			123			
3	517.5E-542.5N			14	8		
4	517.5E-547.5N			311	130		
5	518.75E-543.75N			73	27		
6	518.75E-546.25			259	145		
7	518.75E-548.75N			59	31		
8	520E-430N	8	6	4	8	7	
9	520E-435N	6	8	5	78	4	
10	520E-440N	6	8	6	10	6	
11	520E-445N	10	8	9	10	5	
12	520E-450N	7	8	8	8	5	
13	520E-455N	5	5	22	17	13	
14	520E-460N	4	5	33	79	22	
15	520E-465N	6	4	83	89	25	
16	520E-470N	6	6	14	17	19	
17	520E-475N	10	9	77	27	8	
18	520E-480N	4	8	42	19	18	9

INSTRUMENTS

RESULTS IN

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W. A. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR



CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 520E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	520E-485N	7	15	20	12	5	
2	520E-490N	8	7	16	10	6	ROCK
3	520E-495N	5	16	35	ROCK		
4	520E-500N	8	8	32	15	ROCK	
5	520E-505N	6	25	41	17	ROCK	
6	520E-510N	9	20	59	27	ROCK	
7	520E-515N	11	48	31	18	ROCK	
8	520E-520N	7	21	16	12	ROCK	
9	520E-525N	9	78	26	27	ROCK	
10	520E-530N	7	79	16	10	8	8
11	520E-535N	5	25	17	8	ROCK	
12	520E-540N	9	59	22	11	10	ROCK
13	520E-545N	4	4	249	30	ROCK	
14	520E-550N	18	12	11	14	11	ROCK
15	520E-555N	4	7	47	10	12	
16	520E-560N	7	11	14	10	12	ROCK
17	520E-565N	4	16	17	11	7	
18	520E-570N	10	8	8	4	8	6

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W.a. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 520E - 523E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	520E-575N	6	6	7	4	8	
2	520E-580N	6	6	7	5	7	8
3	520E-585N	4	4	ROCK			
4	521.25E-543.75			19	85		
5	521.25E-546.25N			157	36		
6	521.25E-548.75			37	22		
7	522.25E-532.5N			20	20		
8	522.5E-537.5N			146	12		
9	522.5E-542.5N			66	13		
10	522.5E-547.5N			223	32		
11	523.75E-543.75N			11	31		
12	523.75E-546.25N			66	43		
13	523.75E-548.75N			149	18		

INSTRUMENTS

RESULTS IN

BACKGROUND

MDA

CIMMARRON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

PAGE 12

FILE: AOPRCSSR

W. A. Rogers

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 525E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	525E-430N	7	9	5	10	8
2	525E-435N	6	4	6	8	9
3	525E-440N	6	8	7	10	3
4	525E-445N	7	7	6	10	7
5	525E-450N	7	8	8	6	7
6	525E-455N	5	9	16	6	7
7	525E-460N	5	5	45	6	10
8	525E-465N	8	12	16	10	7
9	525E-470N	9	7	32	23	ROCK
10	525E-475N	34	77	56	15	12
11	525E-480N	7	9	23	5	6
12	525E-485N	4	10	49	11	9
13	525E-490N	4	4	15	6	ROCK
14	525E-495N	5	30	24	16	ROCK
15	525E-500N	8	99	31	24	ROCK
16	525E-505N	4	12	13	7	ROCK
17	525E-510N	7	42	22	9	ROCK
18	525E-515N	8	4	23	7	ROCK

INSTRUMENTS:BACKGROUNDMDACIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTTotal U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

W. G. RogersDATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 525E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	525E-520N	8	49	35	ROCK	
2	525E-525N	5	7	22	11	ROCK
3	525E-530N	7	110	84	23	23
4	525E-535N	8	6	280	85	ROCK
5	525E-540N	12	4	121	11	8
6	525E-545N	11	7	189	50	ROCK
7	525E-550N	5	6	96	18	8
8	525E-555N	3	7	21	83	24
9	525E-560N	4	7	47	15	5
10	525E-565N	6	9	16	18	21
11	525E-570N	8	7	7	6	4
12	525E-575N	7	5	9	8	7
13	525E-580N	3	4	12	5	7
14	525E-585N	7	7	9	5	5

INSTRUMENTS:BACKGROUNDMDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

*W. A. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 526E - 530E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	526.25E-543.75N			12	57		
2	526.25E-546.25N			21	17		
3	527.5E-532.5N			132	18		
4	527.5E-537.5N			209	45		
5	527.5E-542.5N			5	78		
6	527.5E-547.5N			48	6		
7	530E-430N	5	ROCK				
8	530E-435N	6	ROCK				
9	530E-440N	8	6	5	8	8	
10	530E-445N	7	7	9	12	8	
11	530E-450N	7	8	5	9	5	
12	530E-455N	7	10	7	10	6	
13	530E-460N	8	6	38	9	6	
14	530E-465N	9	6	43	16	15	
15	530E-470N	8	21	28	12	13	
16	530E-475N	11	6	26	20	ROCK	
17	530E-480N	6	4	9	30	17	11
18	530E-485N	8	15	143	16	ROCK	
19	530E-490N	6	5	56	21	12	14
20	530E-495N	10	11	35	17	ROCK	

INSTRUMENTS:

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

BACKGROUND

Total U 4  
Th (Nat) 1.5

MDA

10  
1

BACKGROUND NOT SUBTRACTED

PAGE 15

FILE: AOPRCSSR

*W. A. Rogers*

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 530E - 533E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	530E-500N	7	44	36	15	19	ROCK
2	530E-505N	11	37	20	16	ROCK	
3	530E-510N	5	10	26	12	5	ROCK
4	530E-515N	10	10	29	16	ROCK	
5	530E-520N	17	61	30	14	ROCK	
6	530E-525N	11	7	28	16	ROCK	
7	530E-530N	14	12	41	26	18	ROCK
8	530E-535N	8	9	76	19	13	
9	530E-540N	12	12	65	27	20	ROCK
10	530E-545N	5	8	102	17	12	
11	530E-550N	14	12	14	13	15	ROCK
12	530E-555N	9	6	42	15	9	
13	530E-560N	9	12	15	4	35	24
14	530E-565N	5	7	29	17	24	
15	530E-570N	10	11	17	13	7	9
16	530E-575N	7	7	8	11	9	
17	530E-580N	8	4	4	4	8	10
18	530E-585N	7	7	7	7	6	
19	532.5E-492.5N			43	8		
20	532.5E-497.5N			24			
21	533.75E-495N			41	18		

INSTRUMENTS:BACKGROUNDMDACIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U	4
Th (Nat)	1.5

10
1

BACKGROUND NOT SUBTRACTED

W. a. RogersDATE: 9-17-97

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FILE: AOPRCSSR



CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 535E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	535E-430N	6	ROCK			
2	535E-435N	9	ROCK			
3	535E-440N	6	7	6	5	8
4	535E-445N	7	7	8	8	7
5	535E-450N	10	8	8	7	8
6	535E-455N	10	10	9	6	ROCK
7	535E-460N	8	9	7	10	ROCK
8	535E-465N	5	5	32	8	ROCK
9	535E-470N	8	9	21	13	ROCK
10	535E-475N	7	6	27	14	ROCK
11	535E-480N	6	14	40	10	ROCK
12	535E-485N	4	6	41	16	ROCK
13	535E-490N	10	10	147	38	ROCK
14	535E-493.75			144	38	
15	535E-495N	6	8	333	ROCK	
16	535E-496.25N			153		
17	535E-500N	10	24	72	ROCK	
18	535E-505N	10	40	89	ROCK	
19	535E-510N	8	9	86	29	ROCK
20	535E-515N	10	7	130	ROCK	
21	535E-520N	11	10	38	20	ROCK
22	535E-525N	8	11	44	10	ROCK

INSTRUMENTS:BACKGROUNDMDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTO

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W.A. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR

PHASE III, SUB-AREA "O"  
COVERED WASTE POND NO. 2  
PRE-REMEDIATION SOIL SAMPLES

## SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 535E - 537E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	535E-530N	8	11	49	14	13
2	535E-535N	5	7	62	9	10
3	535E-540N	6	6	43	12	7
4	535E-545N	6	2	9	18	8
5	535E-550N	5	8	7	ROCK	
6	535E-555N	7	7	9	98	20
7	535E-560N	8	7	6	33	11
8	535E-565N	7	8	10	23	56
9	535E-570N	14	9	8	6	4
10	535E-575N	7	8	6	4	7
11	535E-580N	7	5	5	4	6
12	535E-585N	5	6	7	4	
13	536.25E-495N			138		
14	537.5E-492.5N			41		
15	537.5E-497.5N			117		

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

W. a. Rogers

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

## SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 540E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	540E-430N	13	ROCK				
2	540E-435N	16	ROCK				
3	540E-440N	7	6	8	7	7	
4	540E-445N	7	10	12	6	7	
5	540E-450N	5	8	5	6	8	
6	540E-455N	8	7	6	6	11	
7	540E-460N	6	5	9	ROCK		
8	540E-465N	7	5	18	7	ROCK	
9	540E-470N	6	11	40	12	14	
10	540E-475N	6	16	31	12	16	
11	540E-480N	7	4	6	9	35	25
12	540E-485N	4	4	18	ROCK		
13	540E-490N	6	8	45	15	14	15
14	540E-493.75N			42	88		
15	540E-495N	8	9	359	ROCK		
16	540E-496.25N			263			
17	540E-500N	9	46	34	21	18	
18	540E-505N	7	12	67	32	ROCK	
19	540E-510N	11	4	29	16	12	11
20	540E-515N	6	6	62	9	ROCK	
21	540E-520N	5	7	29	15	10	11
22	540E-525N	1	4	8	15	5	

INSTRUMENTS:BACKGROUNDMDACIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

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*W. A. Rogers*

DATE: 9-17-97

FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 540E - 542E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	540E-530N	6	7	17	12	12	
2	540E-535N	6	8	36	70	12	
3	540E-540N	5	4	13	13	8	
4	540E-545N	9	8	6	25	12	
5	540E-550N	3	5	6	24	18	
6	540E-555N	5	6	5	19	7	
7	540E-560N	3	4	6	30	16	
8	540E-565N	7	5	11	18	25	
9	540E-570N	7	5	4	10	6	
10	540E-575N	10	4	4	ROCK		
11	540E-580N	2	6	ROCK			
12	540E-585N	5	6	ROCK			
13	541.25E-495N			184	32		
14	542.5E-492.5N			133	39		
15	542.5E-497.5N			43			

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W.A. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 545E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	545E-430N	7	ROCK			
2	545E-435N	8	ROCK			
3	545E-440N	8	5	6	5	6
4	545E-445N	4	8	10	9	8
5	545E-450N	10	6	10	4	7
6	545E-455N	5	7	5	11	9
7	545E-460N	5	13	4	18	
8	545E-465N	4	6	32	ROCK	
9	545E-470N	15	7	14	ROCK	
10	545E-475N	8	27	11	19	15
11	545E-480N	7	6	19	6	
12	545E-485N	5	12	19		
13	545E-490N	8	8	79	39	
14	545E-495N	8	15	111	36	
15	545E-500N	7	3	75	23	
16	545E-505N	4	10	27	9	
17	545E-510N	8	6	85	ROCK	
18	545E-515N	7	6	85	20	30
19	545E-520N	6	6	23	18	
20	545E-525N	5	9	17	5	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR  
Total U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

*W.A. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 545E - 548E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	545E-530N	7	5	65	36	ROCK
2	545E-535N	6	6	6	36	17
3	545E-540N	7	5	17	34	24
4	545E-545N	7	7	7	28	14
5	545E-550N	8	6	6	23	15
6	545E-555N	9	7	4	84	14
7	545E-560N	5	7	6	22	14
8	545E-565N	2	14	24	13	22
9	545E-570N	9	7	7	ROCK	
10	545E-575N	8	6	ROCK		
11	545E-580N	5	6	6	ROCK	
12	545E-585N	8	9	ROCK		
13	547.5E-492.5N			103	61	
14	547.5E-497.5N			110	31	
15	548.75E-495N			27		

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTO

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W. G. Rozen*

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 550E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	550E-430N	11	ROCK				
2	550E-435N	8	ROCK				
3	550E-440N	7	7	8	9	9	
4	550E-445N	12	5	9	11	6	
5	550E-450N	7	7	7	6	7	
6	550E-455N	6	7	4	25	13	
7	550E-460N	5	4	5	20	9	
8	550E-465N	8	8	48	24	ROCK	
9	550E-470N	7	8	16	11	ROCK	
10	550E-475N	8	9	25	9	18	
11	550E-480N	5	5	6	8	8	10
12	550E-485N	5	27	31	23	ROCK	
13	550E-490N	4	10	72	42	21	20
14	550E-495N	7	9	48	30	ROCK	
15	550E-500N	7	8	24	20	10	11
16	550E-505N	10	9	62	19	12	
17	550E-510N	5	9	8	21	7	9
18	550E-515N	6	8	61	9	ROCK	
19	550E-520N	8	5	8	26	18	9
20	550E-525N	7	22	8	31	ROCK	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

PAGE 23

W. a. Rogers

DATE: 9-17-97

FILE: AOPRCSSR



CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 550E - 552E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	550E-530N	6	6	28	61	37	ROCK
2	550E-535N	4	7	7	26	11	
3	550E-540N	6	5	5	29	24	21
4	550E-545N	6	5	5	20	8	
5	550E-550N	5	6	22	39	30	18
6	550E-555N	8	8	8	63	17	
7	550E-560N	7	9	14	11	13	5
8	550E-565N	7	6	11	42	20	
9	550E-570N	10	5	5	9	12	ROCK
10	550E-575N	5	6	6	ROCK		
11	550E-580N	5	9	6	3	ROCK	
12	550E-585N	4	4	21	7		
13	552.5E-522.5N	4	7	8	78	14	
14	552.5E-527.5N	6	8	7	76	27	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

W. a. Rogers

DATE: 9-17-97

PAGE: 24

FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 555E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	555E-430N	5	6	8	6	7
2	555E-435N	9	6	10	8	6
3	555E-440N	8	9	7	9	10
4	555E-445N	7	11	13	9	8
5	555E-450N	9	11	11	7	6
6	555E-455N	10	8	5	12	6
7	555E-460N	14	7	6	27	17
8	555E-465N	10	7	65	9	ROCK
9	555E-470N	5	9	63	13	ROCK
10	555E-475N	9	7	15	11	11
11	555E-480N	4	31	17	12	ROCK
12	555E-485N	7	36	5	10	ROCK
13	555E-490N	5	5	9	80	ROCK
14	555E-495N	7	6	96	33	37
15	555E-500N	8	9	101	50	42
16	555E-505N	6	4	7	129	26
17	555E-510N	7	12	15	15	11
18	555E-515N	10	11	73	28	15

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECT

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W. a. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION WASTE POND NO. 2GRID LOCATION 555E - 557E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	555E-520N	7	5	17	30	10
2	555E-525N	11	7	249	28	24
3	555E-530N	9	7	39	88	64
4	555E-535N	8	16	23	17	14
5	555E-540N	7	5	10	45	9
6	555E-545N	7	10	13	56	7
7	555E-550N	7	5	9	28	19
8	555E-555N	13	10	6	47	20
9	555E-560N	7	7	10	102	31
10	555E-565N	7	11	36	26	ROCK
11	555E-570N	5	6	ROCK		
12	555E-575N	6	6	4	9	7
13	555E-580N	7	7	6	ROCK	
14	555E-585N	7	7	6	5	9
15	557.5E-522.5N	5	11	7	77	35
16	557.5E-527.5N	9	7	8	103	42

INSTRUMENTS:BACKGROUNDMDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U	4
Th (Nat)	1.5

10
1

BACKGROUND NOT SUBTRACTED

W.A. RogersDATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 560E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	560E-430N	10	8	7	7	13	
2	560E-435N	11	5	12	8	9	
3	560E-440N	8	7	5	6	9	
4	560E-445N	8	6	13	8	9	
5	560E-450N	8	8	11	12	9	
6	560E-455N	8	7	9	14	6	
7	560E-460N	6	6	9	21	14	
8	560E-465N	8	8	38	6	4	
9	560E-470N	7	10	56	8	ROCK	
10	560E-475N	6	10	11	11	ROCK	
11	560E-480N	6	6	7	6	29	17
12	560E-485N	8	68	35	15	ROCK	
13	560E-490N	6	5	76	49	29	20
14	560E-495N	6	8	150	31	ROCK	
15	560E-500N	3	7	46	37	27	18
16	560E-505N	8	7	61	33	17	
17	560E-510N	5	10	4	87	49	17
18	560E-515N	9	8	49	53	17	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W.A. Rogers*

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 560E - 562E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	560E-520N	11	7	134	76	35	27
2	560E-525N	5	6	63	24	9	
3	560E-530N	8	4	35	40	21	14
4	560E-535N	9	7	10	33	19	
5	560E-540N	9	7	7	29	25	12
6	560E-545N	5	8	6	22	10	
7	560E-550N	9	10	7	114	38	21
8	560E-555N	10	5	6	146	18	
9	560E-560N	5	8	10	9	8	11
10	560E-565N	8	4	99	ROCK		
11	560E-570N	5	13	7	5	ROCK	
12	560E-575N	3	7	ROCK			
13	560E-580N	6	5	5	ROCK		
14	560E-585N	5	3	ROCK			
15	562.5E-547.5N	7	8	8	212	64	
16	562.5E-552.5N	12	4	6	372	76	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W.A. Rogers*

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

## SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 565E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	565E-430N	6	7	5	13	5
2	565E-435N	4	4	5	4	7
3	565E-440N	5	8	9	5	12
4	565E-445N	6	5	8	6	6
5	565E-450N	6	6	9	7	7
6	565E-455N	9	5	6	12	4
7	565E-460N	6	10	15	5	10
8	565E-465N	6	4	23	10	ROCK
9	565E-470N	8	4	37	12	13
10	565E-475N	8	5	32	13	12
11	565E-480N	6	19	24	10	7
12	565E-485N	8	9	92	21	ROCK
13	565E-490N	4	6	31	39	ROCK
14	565E-495N	9	4	31	13	7
15	565E-500N	5	5	119	30	16
16	565E-505N	5	5	6	24	19
17	565E-510N	3	8	95	28	12
18	565E-515N	6	4	79	48	19

## INSTRUMENTS:

## BACKGROUND

## MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTO

Total U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

W.A. Rogers

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 565E - 567E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	565E-520N	8	5	17	24	17
2	565E-525N	7	9	65	19	17
3	565E-530N	8	8	10	18	12
4	565E-535N	9	ROCK			
5	565E-540N	8	7	6	40	ROCK
6	565E-545N	5	11	73	19	7
7	565E-550N	8	7	244	47	31
8	565E-555N	4	4	5	29	17
9	565E-560N	10	5	28	20	ROCK
10	565E-565N	2	7	97	42	ROCK
11	565E-570N	6	5	ROCK		
12	565E-575N	10	4	7	ROCK	
13	565E-580N	4	6	ROCK		
14	565E-585N	8	ROCK			
15	567.5E-482.5N			13	7	8
16	567.5E-487.5N			133	12	10
17	567.5E-492.5N			69	17	4
18	567.5E-497.5N			77	14	9
19	567.5E-502.5N			153	23	14
20	567.5E-507.5N			89	128	13
21	567.5E-547.5N	7	6	10	41	5
22	567.5E-552.5N	8	5	47	33	13

INSTRUMENTS:BACKGROUNDMDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR	Total U	4
	Th (Nat)	1.5

10
1

BACKGROUND NOT SUBTRACTED

PAGE: 30

FILE: AOPRCSSR

W. G. RogersDATE: 9-17-97



**CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS**

**SAMPLE LOCATION WASTE POND NO. 2**

**GRID LOCATION 570E**

**DATE: 9/1/97**

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	570E-430N	9	8	5	7	10	
2	570E-435N	8	10	13	13	9	
3	570E-440N	11	11	7	6	7	
4	570E-445N	6	9	5	4	ROCK	
5	570E-450N	8	9	9	8	ROCK	
6	570E-455N	7	6	7	12	7	
7	570E-460N	9	9	39	9	ROCK	
8	570E-465N	8	12	39	14	ROCK	
9	570E-470N	11	8	23	13	ROCK	
10	570E-475N	7	6	15	14	ROCK	
11	570E-480N	6	8	15	18	10	6
12	570E-485N	8	9	205	25	7	
13	570E-490N	6	8	32	27	14	12
14	570E-495N	9	5	265	42	64	
15	570E-500N	9	8	69	25	21	12
16	570E-505N	6	10	215	36	ROCK	
17	570E-510N	7	6	7	24	14	11
18	570E-515N	8	6	70	18	20	

**INSTRUMENTS:**

**BACKGROUND**

**MDA**

**CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR**

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W. a. Rogers*

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 570E - 572.5E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	570E-520N	8	8	10	33	14	11
2	570E-525N	9	4	66	16	40	
3	570E-530N	3	7	6	42	12	15
4	570E-535N	8	12	8	72	ROCK	
5	570E-540N	6	10	20	95	9	17
6	570E-545N	5	8	41	31	14	
7	570E-550N	9	6	23	37	24	15
8	570E-555N	14	4	177	25	ROCK	
9	570E-560N	8	9	22	8	6	9
10	570E-565N	11	6	23	47	ROCK	
11	570E-570N	5	8	3	7	8	4
12	570E-575N	6	7	ROCK			
13	570E-580N	6	9	7	8	ROCK	
14	570E-585N	6	9	7	7	ROCK	
15	572.5E-482.5N			97	26	7	
16	572.5E-487.5N			84	123	29	
17	572.5E-492.5N			57	180	36	
18	572.5E-497.5N			62	33	14	
19	572.5E-502.5N			64	122	19	
20	572.5E-507.5N			35	57	12	
21	572.5E-512.5N			15	25	5	
22	572.5E-517.5N			16	22	18	
23	572.5E-522.5N			75	27	6	

INSTRUMENTS:BACKGROUNDMDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

W. a. RogersDATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION - WASTE POND NO. 2

GRID LOCATION 575E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	575E-430N	10	11	12	10	10
2	575E-435N	8	5	9	7	ROCK
3	575E-440N	10	6	7	8	7
4	575E-445N	6	6	12	8	9
5	575E-450N	8	12	ROCK		
6	575E-455N	8	8	9	9	15
7	575E-460N	7	6	8	61	16
8	575E-465N	8	11	19	9	ROCK
9	575E-470N	7	36	38	21	ROCK
10	575E-475N	10	8	134	19	9
11	575E-480N	7	13	9	66	20
12	575E-485N	9	4	40	15	ROCK
13	575E-490N	6	8	281	31	14
14	575E-495N	7	5	117	97	40
15	575E-500N	6	9	253	69	21
16	575E-505N	6	6	12	ROCK	
17	575E-510N	11	6	107	70	29
18	575E-515N	7	8	144	15	10

INSTRUMENTS:BACKGROUNDMDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECT

Total U	4
Th (Nat)	1.5

10
1

BACKGROUND NOT SUBTRACTED

W. A. RogersDATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 575E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	575E-520N	8	8	162	41	12
2	575E-525N	9	6	3	46	10
3	575E-530N	7	8	10	85	37
4	575E-535N	10	6	32	122	64
5	575E-540N	5	12	12	133	70
6	575E-545N	6	8	59	84	23
7	575E-550N	6	6	23	29	15
8	575E-555N	4	8	22	14	8
9	575E-560N	6	4	41	50	25
10	575E-565N	10	4	31	28	15
11	575E-570N	12	4	ROCK		
12	575E-575N	9	6	ROCK		
13	575E-580N	9	8	ROCK		
14	575E-585N	8	12	10	ROCK	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR  
Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W. A. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 577E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	577.5E-487.5N			22	36	6
2	577.5E-492.5N			150	33	26
3	577.5E-497.5N			132	13	9
4	577.5E-502.5N			10	21	8
5	577.5E-507.5N			13	68	10
6	577.5E-512.5N			132	31	10
7	577.5E-517.5N			228	28	12
8	577.5E-522.5N			62	32	16
9	577.5E-527.5N			9	377	164
10	577.5E-532.5N	6	9	9	177	24
11	577.5E-542.5N			9	276	158
12	577.5E-547.5N			90	255	86

INSTRUMENTS:

BACKGROUND

MDA

	Total U	4
CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTO Th (Nat)		1.5

10
1

BACKGROUND NOT SUBTRACTED

W. A. RogersDATE: 9-17-97

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FILE: AOPRCSSR



CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 580E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	580E-430N	4	6	8	8	9	
2	580E-435N	7	7	6	8	11	
3	580E-440N	5	11	9	7	7	
4	580E-445N	8	7	8	13	10	
5	580E-450N	9	14	6	10	ROCK	
6	580E-455N	6	8	16	7	ROCK	
7	580E-460N	5	6	31	18	ROCK	
8	580E-465N	10	24	22	24	ROCK	
9	580E-470N	11	15	16	9	ROCK	
10	580E-475N	7	9	22	10	ROCK	
11	580E-480N	7	7	4	8	25	16
12	580E-485N	7	7	31	10	5	
13	580E-490N	8	20	45	14	17	9
14	580E-495N	8	6	33	ROCK		
15	580E-500N	3	1	12	36	17	9
16	580E-505N	5	6	45	18	ROCK	
17	580E-510N	6	5	120	43	27	17
18	580E-515N	7	8	224	98	34	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W-a. Rozen*

DATE: 9-17-97

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 580E - 582.5E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	580E-520N	3	98	6	43	7	8
2	580E-525N	7	8	8	524	36	
3	580E-530N	12	6	8	101	267	86
4	580E-535N	9	6	63	97	97	
5	580E-540N	7	10	5	97	189	58
6	580E-545N	10	6	9	321	65	
7	580E-550N	5	7	7	154	41	83
8	580E-555N	7	9	12	19	16	
9	580E-560N	15	10	7	23	13	10
10	580E-565N	7	6	11	111	ROCK	
11	580E-570N	3	7	7	7	ROCK	
12	580E-575N	4	7	9	ROCK		
13	580E-580N	11	5	4	ROCK		
14	580E-585N	9	8	8	ROCK		
15	582.5E-507.5N			56	19	6	
16	582.5E-512.5N			17	56	17	
17	582.5E-517.5N			26	19	6	
18	582.5E-522.5N			19	96	32	
19	582.5E-532.5N			8	6	28	
20	582.5E-542.5N			6	111	28	
21	582.5E-547.5N			6	37	8	

4883 →

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

*W. A. Rogers*

DATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTSSAMPLE LOCATION WASTE POND NO. 2GRID LOCATION 585E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	585E-430N	11	6	9	10	4
2	585E-435N	7	5	7	6	4
3	585E-440N	8	10	9	10	4
4	585E-445N	7	11	10	10	7
5	585E-450N	10	5	8	6	8
6	585E-455N	6	8	36	18	16
7	585E-460N	12	5	24	19	ROCK
8	585E-465N	6	19	13	12	ROCK
9	585E-470N	6	10	29	9	13
10	585E-475N	9	8	44	19	ROCK
11	585E-480N	7	8	34	9	7
12	585E-485N	7	6	57	10	10
13	585E-490N	8	7	90	15	8
14	585E-495N	9	36	10	8	6
15	585E-500N	8	4	61	9	13
16	585E-505N	4	9	30	14	8
17	585E-510N	5	4	31	10	9
18	585E-515N	5	7	121	14	5

INSTRUMENTS:BACKGROUNDMDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

W. A. RogersDATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 585E - 587E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	585E-520N	9	9	216	22	7
2	585E-525N	6	8	23	84	36
3	585E-530N	6	9	61	33	13
4	585E-535N	9	5	197	112	24
5	585E-540N	12	9	174	94	28
6	585E-545N	8	7	13	92	19
7	585E-550N	6	8	28	35	17
8	585E-555N	8	7	5	28	ROCK
9	585E-560N	12	6	37	107	ROCK
10	585E-565N	7	59	12	4	26
11	585E-570N	9	5	5	7	5
12	585E-575N	5	7	6	ROCK	
13	585E-580N	12	8	4	ROCK	
14	585E-585N	9	7	8	ROCK	
15	587.5E-512.5N			58	266	198
16	587.5E-517.5N			354	326	182
17	587.5E-522.5N			43	229	152

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

W.A. RogersDATE: 9-17-97

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FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 590E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	590E-430N	8	13	7	10	10	
2	590E-435N	7	7	4	9	6	
3	590E-440N	5	8	10	8	7	
4	590E-445N	12	8	8	7	10	
5	590E-450N	6	7	4	5	7	
6	590E-455N	9	7	9	8	ROCK	
7	590E-460N	9	24	12	7	ROCK	
8	590E-465N	13	39	24	33	34	
9	590E-470N	10	81	22	17	19	
10	590E-475N	5	75	19	16	14	
11	590E-480N	6	4	4	9	18	8
12	590E-485N	4	83	41	28	23	
13	590E-490N	7	4	9	11	8	9
14	590E-495N	6	25	15	7	9	
15	590E-500N	11	11	5	7	5	3
16	590E-505N	10	13	13	19	7	
17	590E-510N	5	7	8	13	6	8
18	590E-515N	8	21	97	156	44	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

PAGE 40

*W.A. Rogers*

DATE: *9-17-97*

FILE: AOPRCSSR

CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 590E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g					
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'	5' - 6'
		Total-U	Total-U	Total-U	Total-U	Total-U	Total-U
1	590E-520N	12	4	9	5	6	6
2	590E-525N	4	8	124	23	15	
3	590E-530N	11	11	10	9	7	5
4	590E-535N	8	13	15	18	45	
5	590E-540N	7	3	5	9	4	5
6	590E-545N	7	7	6	5	15	
7	590E-550N	4	5	4	9	10	5
8	590E-555N	8	5	15	ROCK		
9	590E-560N	14	4	9	4	ROCK	
10	590E-565N	5	5	8	14	8	
11	590E-570N	4	5	6	ROCK		
12	590E-575N	7	5	7	ROCK		
13	590E-580N	5	7	4	ROCK		
14	590E-585N	8	7	8	4	ROCK	

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.5

10  
1

BACKGROUND NOT SUBTRACTED

W. A. Rogers

DATE: 9-17-97

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FILE: AOPRCSSR



CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 595E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	595E-430N	7	14	7	10	6
2	595E-435N	6	13	8	6	6
3	595E-440N	8	4	9	6	9
4	595E-445N	5	5	4	5	7
5	595R-450N	7	5	9	7	8
6	595E-455N	9	11	12	6	8
7	595E-460N	8	6	9	8	ROCK
8	595E-465N	8	8	9	7	7
9	595E-470N	6	6	5	6	8
10	595E-475N	7	6	9	7	8
11	595E-480N	8	7	9	7	48
12	595E-485N	7	7	5	4	3
13	595E-490N	5	5	8	10	4
14	595E-495N	5	6	1	8	7
15	595E-500N	3	7	6	6	9
16	595E-505N	7	6	5	7	9
17	595E-510N	4	9	8	7	5
18	595E-515N	6	8	7	7	10

INSTRUMENTS:

BACKGROUND

MDA

CIMMARON SOIL COUNTER X" X 4" X 16" NaI DETECTOR

Total U 4  
Th (Nat) 1.510  
1

BACKGROUND NOT SUBTRACTED

W. a. RogersDATE: 9-17-97

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CIMARRON CORPORATION  
CIMARRON FACILITY  
PHASE III, SUB-AREA "O"  
WASTE POND NO. 2  
CHARACTERIZATION SOIL SAMPLE RESULTS

## SAMPLE LOCATION WASTE POND NO. 2

GRID LOCATION 595E

DATE: 9/1/97

LN #	GRID NUMBER	pCi/g				
		0 - 1'	1' - 2'	2' - 3'	3' - 4'	4' - 5'
		Total-U	Total-U	Total-U	Total-U	Total-U
1	595E-520N	7	8	7	6	8
2	595E-525N	5	4	6	4	9
3	595E-530N	6	12	5	8	6
4	595E-535N	7	9	8	9	6
5	595E-540N	10	7	7	3	ROCK
6	595E-545N	11	9	9	5	5
7	595E-550N	6	7	6	4	ROCK
8	595E-555N	6	11	5	4	7
9	595E-560N	6	4	8	5	ROCK
10	595E-565N	8	4	5	5	ROCK
11	595E-570N	6	5	6	4	ROCK
12	595E-575N	14	10	4	ROCK	
13	595E-580N	4	5	6	4	3
14	595E-585N	7	8	7	ROCK	

INSTRUMENTS:

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