

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	64E-335N	8810	9	8	6	1
2	65E-334N	8874	9	9	4	2
3	65E-335N	6734	9	8	8	2
4	65E-336N	9058	8	8	7	1
5	65E-340N	8518	8	7	14	1
6	66E-335N	9192	10	9	7	2
7	70E-335N	5656	7	7	13	1
8	70E-340N	7314	8	8	14	1
9	70E-345N	7958	8	7	7	1
10	70E-350N	5322	7	7	11	1
11	75E-335N	7110	7	7	9	2
12	75E-340N	8200	7	7	23	1
13	75E-345N	6672	7	7	21	1
14	75E-350N	7402	8	7	11	1
15	75E-355N	7968	7	7	14	1
16	75E-360N	8526	8	8	15	2
17	75E-365N	6844	7	8	13	1
18	75E - 370N	8266	8	7	9	1
19	75E - 375N	8676	9	8	6	1
20	75E - 380N	8644	9	8	7	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr

7

2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM

7300

N/A

Total U

4

10

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

pCi/g

Th(Nat)

1.5

1

BACKGROUND NOT SUBTRACTED

PAGE 1

FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	75E-385N	7952	7	8	8	1
2	75E-390N	8488	8	8	10	1
3	75E-395N	8880	9	8	7	1
4	75E-400N	8182	8	7	7	1
5	80E-335N	8116	8	8	7	1
6	80E-340N	8474	8	8	11	1
7	80E-345N	8320	8	8	7	1
8	80E-350N	7644	7	8	11	1
9	80E-355N	7782	8	7	14	1
10	80E-360N	7700	9	8	5	2
11	80E-365N	8216	8	8	10	1
12	80E-370N	8102	8	8	14	1
13	80E-375N	8020	8	7	9	1
14	80E-380N	7356	7	7	10	2
15	80E-385N	9438	9	8	8	2
16	80E-390N	8250	9	8	14	2
17	80E-395N	8470	8	8	30	2
18	80E-400N	6760	7	7	24	1
19	80E-405N	8130	8	7	19	2
20	80E-410N	7730	7	8	12	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

PAGE 2

FILE: PHIIHASS

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PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

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LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	85E-335N	8822	8	8	12	1
2	85E-340N	8412	8	8	13	2
3	85E-345N	8808	8	8	13	1
4	85E-350N	7650	8	8	16	2
5	85E-355N	6632	7	7	9	1
6	85E-360N	6074	7	7	10	1
7	85E-365N	7662	8	8	12	2
8	85E-370N	7324	7	7	15	1
9	85E-375N	6410	7	7	14	2
10	85E-380N	5482	7	7	10	1
11	85E-385N	7380	7	7	26	2
12	85E-390N	7706	8	8	28	2
13	85E-395N	8548	8	8	22	2
14	85E-400N	7754	9	7	16	1
15	85E-405N	7280	7	7	15	1
16	85E-410N	9470	9	8	30	2
17	85E-415N	7564	8	7	28	1
18	85E-420N	7814	8	8	11	1
19	85E-425N	8312	8	8	24	2
20						

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr

7

2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM

7300

N/A

Total U

4

10

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

pCi/g

Th(Nat)

1.5

1

BACKGROUND NOT SUBTRACTED

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PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	89E-387N	6620	8	7	7	1
2	89E-389N	7204	7	8	27	1
3	89E-390N	6440	7	7	12	1
4	90E-335N	8198	8	8	16	1
5	90E-340N	7328	8	8	7	1
6	90E-345N	6904	7	7	9	1
7	90E-350N	6254	6	6	5	1
8	90E-355N	6334	6	7	9	1
9	90E-360N	6554	7	8	14	1
10	90E-365N	6550	8	8	7	1
11	90E-370N	6444	7	8	6	1
12	90E-375N	6232	6	7	6	1
13	90E-380N	8142	8	8	16	1
14	90E-385N	5184	5	5	8	1
15	90E-389N	5492	6	6	15	1
16	90E-390N	5194	6	6	6	1
17						
18						
19						
20						

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μ R/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

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CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	90E-391N	5230	6	6	13	1
2	90E-395N	7400	7	7	7	1
3	90E-400N	6010	5	7	10	1
4	90E-405N	7350	8	8	8	1
5	90E-410N	7896	8	8	9	1
6	90E-415N	6858	6	7	7	1
7	90E-420N	4416	5	6	12	1
8	90E-425N	8056	8	8	8	1
9	90E-430N	7818	7	7	13	1
10	91E-390N	5404	5	6	22	1
11	94E-430N	8890	7	7	18	1
12	95E-335N	7460	8	8	10	1
13	95E-340N	6832	6	7	8	1
14	95E-345N	5802	7	7	5	1
15	95E-350N	5644	7	7	7	1
16	95E-355N	7856	7	7	9	1
17	95E-360N	7126	7	7	10	1
18	95E-365N	7026	7	8	8	1
19	95E-370N	3758	5	5	ROCK	ROCK
20	95E-375N	7114	8	8	6	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

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CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	95E-380N	6366	6	7	13	1
2	95E-385N	5436	5	5	12	1
3	95E-390N	5764	5	5	12	1
4	95E-395N	5416	5	6	13	1
5	95E-400N	7688	5	6	11	1
6	95E-405N	6348	6	6	11	1
7	95E-410N	6450	7	8	13	1
8	95E-415N	7222	7	7	8	1
9	95E-420N	6324	7	7	9	1
10	95E-425N	6844	6	7	25	1
11	95E-429N	6026	7	8	23	2
12	95E-430N	6698	8	7	23	1
13	95E-431N	6672	8	7	17	1
14	95E-435N	7886	7	8	27	1
15	96E-430N	8882	8	8	23	1
16	99E-370N	7328	7	7	7	1
17	99E-435N	5252	6	7	26	1
18	100E-335N	7358	8	8	10	1
19	100E-340N	7718	8	8	7	1
20	100E-345N	7234	8	8	6	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

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DATE: 7-14-98

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PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	100E-350N	7400	8	8	7	1
2	100E-355N	9196	10	10	11	1
3	100E-360N	8574	9	9	25	2
4	100E-365N	8156	7	9	17	2
5	100E-369N	7652	8	7	11	1
6	100E-370N	5762	7	7	8	1
7	100E-371N	6016	9	8	12	1
8	100E-375N	7526	8	9	12	1
9	100E-380N	4378	5	5	4	1
10	100E-385N	5220	5	7	3	1
11	100E-390N	5264	5	5	9	1
12	100E-395N	5276	6	6	7	1
13	100E-400N	5486	6	6	10	1
14	100E-405N	6332	5	7	19	1
15	100E-410N	6242	7	7	26	1
16	100E-415N	6208	7	7	9	1
17	100E-420N	5946	5	5	14	1
18	100E-425N	6440	6	8	28	1
19	100E-430N	6978	6	6	18	1
20	100E-434N	8312	9	8	20	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	100E-435N	8988	9	8	24	1
2	100E-436N	8918	9	7	13	1
3	100E-440N	8196	8	9	26	2
4	101E-370N	5550	7	7	11	1
5	101E-435N	6484	7	6	24	1
6	104E-370N	4836	7	7	21	1
7	105E-335N	8870	9	9	9	1
8	105E-340N	8894	8	7	11	1
9	105E-345N	8688	8	8	14	1
10	105E-350N	8736	8	7	10	1
11	105E-355N	8470	8	8	5	1
12	105E-360N	8754	10	8	9	2
13	105E-365N	7382	8	8	9	1
14	105E-369N	5902	7	7	13	1
15	105E-370N	5786	7	6	8	1
16	105E-371N	5334	7	7	8	1
17	105E-375N	4780	5	5	13	1
18	105E-380N	4352	5	6	4	1
19	105E-385N	4210	5	5	10	1
20	105E-390N	5066	5	5	10	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μ R/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

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PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	106E-370N	4222	5	5	4	1
2	110E-245N	7752	7	7	8	1
3	110E-250N	7802	9	9	11	2
4	110E-255N	8136	7	8	15	2
5	110E-260N	8290	8	9	18	2
6	110E-265N	8182	8	8	9	1
7	110E-270N	9102	9	9	8	2
8	110E-275N	8764	9	9	7	2
9	110E-280N	9624	10	10	11	2
10	110E-285N	9760	9	9	9	2
11	110E-290N	9890	10	10	7	2
12	110E-295N	9158	11	9	10	2
13	110E-300N	9906	9	10	4	1
14	110E-305N	10380	10	10	11	2
15	110E-310N	9876	10	10	9	2
16	110E-315N	9524	10	10	11	2
17	110E-320N	9472	10	10	5	2
18	110E-325N	9602	11	10	10	2
19	110E-330N	9888	9	9	8	2
20	110E-335N	9312	10	8	14	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

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CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	110E-340N	8994	8	8	6	2
2	110E-345N	8990	7	9	7	1
3	110E-350N	8604	7	8	15	1
4	110E-355N	9472	11	10	6	2
5	110E-360N	9120	9	8	14	2
6	110E-365N	8576	8	9	9	2
7	110E-370N	6714	9	8	9	1
8	110E-375N	7254	8	8	12	1
9	115E-245N	7378	8	8	6	2
10	115E-250N	7582	7	8	6	2
11	115E-255N	7344	8	7	10	2
12	115E-260N	7664	8	9	11	1
13	115E-265N	8014	9	7	5	2
14	115E-270N	8540	9	9	6	2
15	115E-275N	8560	9	8	6	2
16	115E-280N	8692	9	9	12	2
17	115E-285N	8066	8	8	12	1
18	115E-290N	9238	11	9	8	1
19	115E-295N	9374	10	8	10	2
20	115E-300N	9532	10	9	10	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

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PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	115E-305N	9704	10	10	6	2
2	115E-310N	9356	9	9	6	1
3	115E-315N	8998	10	9	8	2
4	115E-320N	8066	9	9	6	2
5	115E-325N	8148	10	9	9	2
6	115E-330N	8458	9	9	3	1
7	115E-335N	8692	9	8	5	1
8	115E-340N	9152	8	8	8	1
9	115E-345N	9462	8	8	7	2
10	115E-350N	9498	8	9	9	1
11	115E-355N	8958	8	8	7	1
12	115E-360N	9260	9	9	7	2
13	115E-365N	9750	10	9	11	2
14	115E-370N	9480	8	8	13	2
15	120E-240N	8308	9	8	6	2
16	120E-245N	7794	9	8	5	2
17	120E-250N	8294	9	9	7	1
18	120E-255N	8444	9	8	5	2
19	120E-260N	8090	9	9	7	1
20	120E-265N	8190	9	9	9	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

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PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	120E-270N	8448	9	9	11	1
2	120E-275N	9168	10	10	5	2
3	120E-280N	8902	9	9	7	2
4	120E-285N	8810	9	8	8	2
5	120E-290N	8832	9	9	7	2
6	120E-295N	8884	9	8	9	2
7	120E-300N	9342	10	9	8	1
8	120E-305N	9488	10	10	8	2
9	120E-310N	9518	9	9	9	1
10	120E-315N	8234	9	8	7	2
11	120E-320N	8500	9	9	10	2
12	120E-325N	8766	8	8	12	2
13	120E-330N	9340	9	9	5	3
14	120E-335N	9680	10	8	7	2
15	120E-340N	8882	9	9	9	2
16	120E-345N	7660	8	8	7	2
17	120E-350N	9522	7	7	10	1
18	120E-355N	9812	10	10	12	2
19	120E-360N	9536	9	8	7	2
20	120E-365N	9670	10	8	10	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

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CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	125E-235N	8558	9	8	10	1
2	125E-240N	7190	7	8	6	1
3	125E-245N	7628	8	9	8	2
4	125E-250N	8334	10	8	4	2
5	125E-255N	8772	9	9	12	2
6	125E-260N	8988	9	9	6	2
7	125E-265N	8932	10	9	6	2
8	125E-270N	7932	8	8	7	1
9	125E-275N	7412	9	8	8	2
10	125E-280N	8276	8	9	9	1
11	125E-285N	8820	9	9	9	2
12	125E-290N	8530	10	9	21	2
13	125E-295N	8642	9	10	10	1
14	125E-300N	7856	8	8	9	2
15	125E-305N	8860	9	8	7	2
16	125E-310N	7954	9	8	10	2
17	125E-315N	8156	8	9	10	2
18	125E-320N	8880	10	8	12	2
19	125E-325N	8966	9	9	7	2
20	125E-330N	9416	10	9	5	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	130E-235N	8032	8	9	6	2
2	130E-240N	8110	8	8	7	2
3	130E-245N	7986	8	8	9	1
4	130E-250N	7914	8	8	6	2
5	130E-255N	8320	8	8	9	2
6	130E-260N	8506	10	9	7	2
7	130E-265N	8858	9	10	9	1
8	130E-270N	7732	8	8	5	2
9	130E-275N	8296	9	9	11	2
10	130E-280N	9020	9	9	10	2
11	130E-285N	7994	9	9	10	1
12	130E-290N	8190	8	8	5	2
13	130E-295N	8440	9	8	6	2
14	130E-300N	8142	8	7	13	1
15	130E-305N	8452	8	8	11	2
16	130E-310N	8196	10	9	12	1
17	130E-315N	9188	9	8	10	2
18	130E-320N	9194	10	9	7	2
19	130E-325N	9514	9	9	7	2
20	130E-330N	8878	9	9	12	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 7

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

PAGE 14

FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	135E-230N	7240	9	8	7	2
2	135E-235N	7784	9	8	6	1
3	135E-240N	8080	8	8	11	2
4	135E-245N	8200	9	8	6	3
5	135E-250N	8178	9	9	8	2
6	135E-255N	8362	9	9	10	2
7	135E-260N	8350	8	8	7	2
8	135E-265N	7978	9	9	5	2
9	135E-270N	8868	10	9	11	2
10	135E-275N	9090	9	9	6	2
11	135E-280N	9208	10	10	9	2
12	135E-285N	9208	9	9	7	2
13	135E-290N	9184	10	10	9	1
14	135E-295N	8366	10	9	11	1
15	135E-300N	8556	8	8	6	2
16	135E-305N	8078	8	8	10	2
17	135E-310N	10304	10	10	23	3
18	135E-315N	8688	8	9	17	2
19	135E-320N	8202	9	9	12	1
20	135E-325N	9172	11	9	9	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	135E-330N	9092	10	9	10	1
2	140E-230N	8416	9	8	7	2
3	140E-235N	7440	8	9	9	1
4	140E-240N	7722	7	8	5	1
5	140E-245N	8140	8	8	6	2
6	140E-250N	7878	9	8	10	2
7	140E-255N	7914	7	7	7	2
8	140E-260N	7910	8	8	6	2
9	140E-265N	8002	8	8	8	2
10	140E-270N	8540	9	9	8	2
11	140E-275N	8014	8	8	14	2
12	140E-280N	8656	9	9	7	2
13	140E-285N	9188	9	8	11	1
14	140E-290N	8640	9	9	6	2
15	140E-295N	9038	8	8	4	2
16	140E-300N	9136	8	8	8	2
17	140E-305N	9908	10	11	12	2
18	140E-310N	9130	9	9	12	2
19	140E-315N	8790	8	9	8	1
20	140E-320N	7524	8	8	7	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	140E-325N	8552	9	9	6	1
2	140E-330N	8302	8	9	6	2
3	145E-225N	8088	8	9	11	1
4	145E-230N	8286	8	8	6	2
5	145E-235N	7798	8	8	8	2
6	145E-240N	9830	8	8	4	1
7	145E-245N	7988	9	9	6	1
8	145E-250N	7860	8	8	4	2
9	145E-255N	8198	10	8	7	2
10	145E-260N	8026	9	8	8	2
11	145E-265N	8370	8	8	5	2
12	145E-270N	8132	9	9	6	2
13	145E-275N	8346	8	9	18	2
14	145E-280N	9828	10	9	6	2
15	145E-285N	9092	10	9	7	1
16	145E-290N	8700	10	8	6	2
17	145E-295N	8908	10	10	6	2
18	145E-300N	9200	10	11	9	2
19	145E-305N	8480	9	9	11	2
20	145E-310N	10778	11	11	14	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	145E-315N	10990	12	10	26	3
2	145E-320N	8666	11	9	8	1
3	145E-325N	7640	8	7	6	1
4	145E-330N	9104	9	9	9	2
5	150E-225N	7980	7	8	6	1
6	150E-230N	8124	8	8	10	2
7	150E-235N	7730	7	7	8	2
8	150E-240N	7930	8	7	6	2
9	150E-245N	7558	9	8	9	1
10	150E-250N	7976	8	7	7	2
11	150E-255N	7966	8	8	9	2
12	150E-260N	8152	7	8	3	2
13	150E-265N	7934	7	8	5	2
14	150E-270N	8352	10	8	6	1
15	150E-275N	8926	9	9	5	2
16	150E-280N	9606	9	9	14	1
17	150E-285N	8630	8	8	7	2
18	150E-290N	8654	8	8	6	2
19	150E-295N	8842	9	9	7	2
20	150E-300N	9058	10	10	5	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. Q. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	150E-305N	9192	9	9	5	2
2	150E-310N	8928	10	9	13	2
3	150E-315N	9308	10	9	7	2
4	150E-320N	6082	7	7	6	1
5	150E-325N	8106	8	8	8	1
6	150E-330N	8896	9	9	9	2
7	155E-220N	7802	8	7	10	2
8	155E-225N	8044	8	8	10	1
9	155E-230N	7926	9	9	9	1
10	155E-235N	8158	8	8	5	2
11	155E-240N	7978	8	8	6	2
12	155E-245N	7922	8	8	4	2
13	155E-250N	8148	8	9	6	1
14	155E-255N	7948	9	8	7	2
15	155E-260N	8228	9	8	9	1
16	155E-265N	8112	9	9	6	2
17	155E-270N	8700	9	9	8	2
18	155E-275N	8544	10	10	6	2
19	155E-280N	8468	9	8	5	2
20	155E-285N	8682	10	10	8	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. G. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	155E-290N	9056	10	8	5	1
2	155E-295N	8566	9	8	7	2
3	155E-300N	8942	9	8	6	2
4	155E-305N	9114	10	8	5	2
5	155E-310N	9154	10	9	9	2
6	155E-315N	9454	11	10	7	2
7	155E-320N	7418	8	7	10	2
8	155E-325N	7168	9	8	5	2
9	155E-330N	8268	9	8	9	1
10	160E-220N	8116	9	9	7	1
11	160E-225N	8158	8	7	10	2
12	160E-230N	7940	7	7	5	1
13	160E-235N	7744	7	8	6	2
14	160E-240N	7864	8	8	5	2
15	160E-245N	7882	8	9	6	2
16	160E-250N	8250	8	7	5	2
17	160E-255N	8302	8	8	12	1
18	160E-260N	7810	8	9	5	1
19	160E-265N	8236	8	8	5	2
20	160E-270N	7952	8	9	4	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	160E-275N	8560	8	9	9	2
2	160E-280N	8348	7	8	6	1
3	160E-285N	8530	7	8	5	2
4	160E-290N	8430	9	8	8	2
5	160E-295N	8500	8	8	9	2
6	160E-300N	9016	10	9	9	2
7	160E-305N	9668	10	9	14	2
8	160E-310N	9220	8	8	7	2
9	160E-315N	9076	9	9	8	2
10	160E-320N	6210	7	7	5	1
11	160E-325N	5902	5	6	5	1
12	160E-330N	8582	9	8	9	1
13	165E-215N	7706	8	8	9	1
14	165E-220N	8056	9	8	6	2
15	165E-225N	8256	8	8	8	2
16	165E-230N	7844	8	8	6	1
17	165E-235N	7566	9	8	9	2
18	165E-240N	8030	8	8	5	1
19	165E-245N	8048	8	7	4	2
20	165E-250N	8192	8	8	5	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	165E-255N	8366	9	7	9	2
2	165E-260N	7792	8	8	8	2
3	165E-265N	8974	9	8	4	2
4	165E-270N	8094	9	9	8	1
5	165E-275N	7598	9	8	9	2
6	165E-280N	7910	8	8	10	1
7	165E-285N	8130	9	9	8	2
8	165E-290N	8406	9	9	8	2
9	165E-295N	9068	11	9	7	2
10	165E-300N	8916	10	9	11	2
11	165E-305N	9186	10	9	7	2
12	165E-310N	9214	9	8	8	2
13	165E-315N	8308	10	9	7	2
14	165E-320N	4976	5	5	2	1
15	165E-325N	4860	6	6	6	1
16	165E-330N	6170	7	7	8	1
17	170E-210N	8200	8	8	7	1
18	170E-215N	7912	8	7	9	2
19	170E-220N	8532	8	7	7	1
20	170E-225N	8530	8	8	6	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

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

pCi/g Total U 4 10
Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	170E-230N	8726	9	8	10	2
2	170E-235N	8296	8	8	6	2
3	170E-240N	8484	9	7	7	2
4	170E-245N	8078	7	7	8	2
5	170E-250N	8570	8	8	6	2
6	170E-255N	8952	9	8	6	2
7	170E-260N	8436	7	8	7	2
8	170E-265N	8386	8	8	10	1
9	170E-270N	9054	9	7	6	1
10	170E-275N	8522	8	7	5	1
11	170E-280N	8996	8	8	12	2
12	170E-285N	8610	8	8	7	2
13	170E-290N	9492	8	8	7	2
14	170E-295N	8894	9	9	5	2
15	170E-300N	9188	8	8	11	2
16	170E-305N	10126	10	10	8	2
17	170E-310N	9634	9	8	10	2
18	170E-315N	8564	8	8	9	2
19	170E-320N	6088	6	6	9	1
20	170E-325N	5550	5	6	4	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

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

pCi/g Total U 4 10
Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	170E-330N	8286	8	7	6	2
2	175E-210N	7856	8	8	8	2
3	175E-215N	8582	8	8	11	2
4	175E-220N	8816	9	8	6	2
5	175E-225N	8390	8	8	9	1
6	175E-230N	7874	7	7	6	1
7	175E-235N	8470	8	8	6	2
8	175E-240N	8668	8	8	7	2
9	175E-245N	8326	8	8	10	2
10	175E-250N	8976	9	8	10	2
11	175E-255N	8674	9	9	11	2
12	175E-260N	8232	8	8	7	1
13	175E-265N	7896	8	8	5	1
14	175E-270N	8080	8	8	5	1
15	175E-275N	8286	8	8	8	2
16	175E-280N	8516	8	8	10	2
17	175E-285N	8308	9	9	5	2
18	175E-290N	9464	9	8	8	1
19	175E-295N	9364	9	8	7	2
20	175E-300N	9536	9	9	11	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μ R/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	175E-305N	9116	9	9	9	2
2	175E-310N	8388	9	9	18	2
3	175E-315N	7060	7	7	4	1
4	175E-320N	6678	7	7	7	1
5	175E-325N	8082	7	6	8	2
6	175E-330N	7990	5	6	17	1
7	180E-205N	8484	9	9	11	2
8	180E-210N	8378	8	8	8	2
9	180E-215N	8642	9	8	8	2
10	180E-220N	8518	8	8	8	2
11	180E-225N	8268	9	9	8	2
12	180E-230N	8244	8	8	7	1
13	180E-235N	9136	9	8	6	1
14	180E-240N	8516	9	7	6	2
15	180E-245N	8544	8	8	5	1
16	180E-250N	8698	8	8	8	2
17	180E-255N	8870	9	8	6	2
18	180E-260N	8308	8	8	8	1
19	180E-265N	8482	9	8	7	2
20	180E-270N	7856	9	9	8	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	μR/hr	7	2
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LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
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	Total U	4	10
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CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1
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BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	180E-275N	8562	8	8	10	2
2	180E-280N	7780	8	8	8	1
3	180E-285N	8666	8	8	5	1
4	180E-290N	8254	10	8	7	2
5	180E-295N	8164	8	9	10	1
6	180E-300N	9236	10	9	5	2
7	180E-305N	9390	10	8	4	2
8	180E-310N	9878	10	9	8	1
9	180E-315N	9720	11	10	8	1
10	180E-320N	7384	8	8	9	1
11	180E-325N	8954	8	8	4	2
12	180E-330N	9526	10	9	10	2
13	185E-205N	8050	8	8	5	2
14	185E-210N	8208	7	8	8	2
15	185E-215N	8356	9	8	7	2
16	185E-220N	8486	8	8	7	1
17	185E-225N	8518	8	8	5	2
18	185E-230N	8388	9	8	7	2
19	185E-235N	8536	7	8	7	2
20	185E-240N	8874	9	8	8	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr

7

2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM

7300

N/A

Total U

4

10

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

pCi/g

Th(Nat)

1.5

1

BACKGROUND NOT SUBTRACTED

PAGE 26

FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	185E-245N	8344	8	8	8	1
2	185E-250N	8674	8	8	6	2
3	185E-255N	8302	7	7	4	2
4	185E-260N	8266	8	8	5	2
5	185E-265N	7942	8	7	6	2
6	185E-270N	7248	7	7	6	1
7	185E-275N	8276	8	8	5	2
8	185E-280N	9472	10	8	8	2
9	185E-285N	7810	8	8	6	2
10	185E-290N	8422	8	8	6	2
11	185E-295N	8488	8	8	6	1
12	185E-300N	8650	8	8	10	1
13	185E-305N	8360	7	7	8	2
14	185E-310N	9018	10	9	7	2
15	185E-315N	9474	9	8	9	2
16	185E-320N	7888	8	8	6	2
17	185E-325N	9176	9	8	5	2
18	185E-330N	9672	10	9	6	2
19	190E-200N	8178	8	7	6	1
20	190E-205N	8320	8	7	6	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	190E-210N	8198	9	8	5	1
2	190E-215N	8238	7	8	9	2
3	190E-220N	8402	9	8	4	1
4	190E-225N	8064	8	7	8	1
5	190E-230N	8430	9	8	12	2
6	190E-235N	8806	9	8	9	1
7	190E-240N	8540	9	8	14	2
8	190E-245N	8336	8	8	9	1
9	190E-250N	8004	9	8	5	1
10	190E-255N	8328	9	8	9	1
11	190E-260N	8074	7	7	5	1
12	190E-265N	7910	7	6	7	2
13	190E-270N	7836	7	7	5	1
14	190E-275N	7178	8	7	5	1
15	190E-280N	7828	8	8	4	1
16	190E-285N	8362	10	9	6	2
17	190E-290N	9120	9	9	6	2
18	190E-295N	8360	8	8	8	2
19	190E-300N	7486	7	8	8	1
20	190E-305N	7484	8	8	10	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	190E-310N	7894	7	8	4	1
2	190E-315N	8434	9	9	9	1
3	190E-320N	8770	9	8	9	1
4	190E-325N	9178	9	9	6	1
5	190E-330N	9598	10	10	4	1
6	195E-200N	7818	7	8	6	2
7	195E-205N	8070	9	9	9	2
8	195E-210N	8210	10	8	7	1
9	195E-215N	8090	8	9	4	2
10	195E-220N	8208	9	9	9	2
11	195E-225N	8468	9	8	7	2
12	195E-230N	8326	10	9	6	2
13	195E-235N	8688	9	9	6	1
14	195E-240N	8354	9	9	13	1
15	195E-245N	8478	10	9	9	1
16	195E-250N	8418	9	8	9	2
17	195E-255N	7780	9	8	6	1
18	195E-260N	7692	8	8	10	1
19	195E-265N	6876	7	7	7	1
20	195E-270N	5172	7	7	4	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	195E-275N	7480	8	8	6	1
2	195E-280N	7920	8	8	9	2
3	195E-285N	8832	9	9	10	2
4	195E-290N	8840	8	8	4	1
5	195E-295N	8620	8	8	8	1
6	195E-300N	8514	9	8	8	2
7	195E-305N	8992	10	9	11	2
8	195E-310N	9612	9	8	6	2
9	195E-315N	9120	10	9	10	2
10	195E-320N	9058	9	8	7	2
11	195E-325N	9742	10	10	10	2
12	195E-330N	9192	10	9	5	2
13	200E-195N	7838	8	8	7	1
14	200E-200N	7912	8	8	11	2
15	200E-205N	8116	9	7	7	2
16	200E-210N	8396	9	8	7	1
17	200E-215N	8424	8	9	8	1
18	200E-220N	8388	9	8	9	1
19	200E-225N	8226	8	8	8	1
20	200E-230N	8226	8	7	5	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μ R/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. a. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	200E-235N	8362	10	9	8	2
2	200E-240N	8246	8	8	8	2
3	200E-245N	9012	10	8	20	2
4	200E-250N	8720	9	8	8	1
5	200E-255N	7902	8	8	9	1
6	200E-260N	6814	7	7	5	1
7	200E-265N	6496	8	7	11	1
8	200E-270N	7032	8	7	8	1
9	200E-275N	8618	9	8	5	1
10	200E-280N	8500	8	8	8	2
11	200E-285N	9070	10	9	5	2
12	200E-290N	8332	8	8	6	1
13	200E-295N	8664	9	8	6	2
14	200E-300N	8912	9	8	7	2
15	200E-305N	9054	9	8	5	2
16	200E-310N	9076	10	9	8	2
17	200E-315N	8646	10	8	8	1
18	200E-320N	9328	10	8	7	2
19	200E-325N	9534	10	10	6	2
20	200E-330N	9666	10	9	15	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED
PAGE 31
FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	205E-190N	7456	8	8	4	2
2	205E-195N	7952	8	7	7	1
3	205E-200N	8014	8	8	5	1
4	205E-205N	8246	9	9	10	2
5	205E-210N	8334	8	8	10	1
6	205E-215N	8434	8	8	10	2
7	205E-220N	8046	9	9	8	1
8	205E-225N	8292	9	8	10	2
9	205E-230N	8406	9	9	12	1
10	205E-235N	8552	9	9	8	1
11	205E-240N	8360	9	8	6	2
12	205E-245N	8586	8	8	3	2
13	205E-250N	8204	10	8	7	2
14	205E-255N	7322	7	8	6	2
15	205E-260N	8604	9	8	4	2
16	205E-265N	9134	9	8	8	2
17	205E-270N	8870	9	8	7	1
18	205E-275N	8752	9	9	7	2
19	205E-280N	8992	9	8	8	1
20	205E-285N	8780	9	8	10	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr

7

2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM

7300

N/A

Total U

4

10

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

pCi/g

Th(Nat)

1.5

1

BACKGROUND NOT SUBTRACTED

PAGE 32

FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	205E-290N	9256	9	8	9	2
2	205E-295N	8894	9	8	5	2
3	205E-300N	8452	9	9	6	1
4	205E-305N	7746	8	8	6	1
5	205E-310N	8770	9	8	6	1
6	205E-315N	7362	8	7	11	1
7	205E-320N	9356	10	9	10	2
8	205E-325N	9150	10	9	4	1
9	205E-330N	9402	10	10	6	2
10	210E-190N	7264	8	8	7	1
11	210E-195N	7944	8	8	8	2
12	210E-200N	7978	8	8	14	1
13	210E-205N	8456	9	8	6	1
14	210E-210N	8336	9	7	7	1
15	210E-215N	8172	9	8	8	2
16	210E-220N	8204	8	8	8	1
17	210E-225N	8376	8	8	9	2
18	210E-230N	8318	8	8	11	1
19	210E-235N	9508	9	9	8	2
20	210E-240N	9032	9	9	24	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

PAGE 33

FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	210E-245N	8766	9	8	6	2
2	210E-250N	9184	9	8	12	1
3	210E-255N	8266	8	8	7	1
4	210E-260N	8690	10	9	10	1
5	210E-265N	8714	9	8	10	2
6	210E-270N	8756	9	8	8	2
7	210E-275N	8020	9	7	10	1
8	210E-280N	8540	9	8	5	2
9	210E-285N	8518	9	9	6	1
10	210E-290N	8390	10	9	5	2
11	210E-295N	9032	10	9	6	2
12	210E-300N	9088	10	8	9	1
13	210E-305N	8676	9	8	5	2
14	210E-310N	7780	8	8	5	2
15	210E-315N	7912	9	8	9	2
16	210E-320N	9206	9	8	7	2
17	210E-325N	8680	10	9	8	2
18	210E-330N	8204	8	9	9	1
19	215E-185N	7690	8	8	10	1
20	215E-190N	7330	8	8	14	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

PAGE 34

FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	215E-195N	7534	8	8	11	1
2	215E-200N	8164	8	7	11	2
3	215E-205N	8094	8	8	9	2
4	215E-210N	8312	8	7	12	1
5	215E-215N	8244	9	9	9	1
6	215E-220N	8226	9	8	10	1
7	215E-225N	8060	9	8	7	1
8	215E-230N	8422	9	8	5	2
9	215E-235N	8558	9	9	7	1
10	215E-240N	7204	8	8	8	1
11	215E-245N	8862	9	8	9	2
12	215E-250N	8288	9	9	6	1
13	215E-255N	8518	9	8	7	2
14	215E-260N	9078	9	9	7	1
15	215E-265N	9302	9	8	11	1
16	215E-270N	9040	8	8	8	1
17	215E-275N	9078	9	9	8	2
18	215E-280N	8480	8	8	6	2
19	215E-285N	8180	10	8	9	1
20	215E-290N	7496	8	8	9	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr

7

2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM

7300

N/A

Total U

4

10

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

pCi/g

Th(Nat)

1.5

1

BACKGROUND NOT SUBTRACTED

PAGE 35

FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	215E-295N	8350	9	9	5	1
2	215E-300N	8754	9	9	4	2
3	215E-305E	7796	8	7	6	1
4	215E-310N	6674	7	7	5	1
5	215E-315N	9280	9	8	6	2
6	215E-320N	7680	9	9	7	2
7	215E-325N	8680	10	10	7	2
8	215E-330N	8562	10	9	10	2
9	220E-185N	7342	7	7	10	1
10	220E-190N	7936	9	7	12	1
11	220E-195N	8216	9	8	6	2
12	220E-200N	8276	8	8	12	2
13	220E-205N	8362	8	8	5	2
14	220E-210N	8078	9	8	11	1
15	220E-215N	8418	8	8	9	1
16	220E-220N	8390	9	7	7	2
17	220E-225N	8220	8	8	9	2
18	220E-230N	9306	9	7	10	1
19	220E-235N	8736	10	9	7	2
20	220E-240N	8144	8	8	7	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr

7

2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM

7300

N/A

Total U 4 10

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

pCi/g

Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

PAGE 36

FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	220E-245N	7526	8	8	12	1
2	220E-250N	8462	10	8	4	2
3	220E-255N	7788	8	8	6	1
4	220E-260N	8694	10	8	9	1
5	220E-265N	8694	9	7	7	2
6	220E-270N	9210	10	8	9	2
7	220E-275N	8038	9	8	8	2
8	220E-280N	8452	9	8	6	1
9	220E-285N	9244	9	8	10	2
10	220E-290N	8796	9	9	6	2
11	220E-295N	8312	9	8	6	1
12	220E-300N	6378	7	7	9	1
13	220E-305N	7952	9	8	4	1
14	220E-310N	8260	9	8	6	2
15	220E-315N	9988	10	10	11	2
16	220E-320N	8576	10	9	13	1
17	220E-325N	8170	8	8	10	2
18	220E-330N	8446	9	9	7	2
19	225E-190N	7948	8	8	11	1
20	225E-195N	7762	8	7	7	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	225E-200N	8126	8	8	11	1
2	225E-205N	8528	9	8	7	2
3	225E-210N	8342	9	8	4	2
4	225E-215N	8244	8	8	12	1
5	225E-220N	8264	9	7	7	1
6	225E-225N	8362	8	8	13	2
7	225E-230N	8262	8	8	6	2
8	225E-235N	8710	8	8	9	2
9	225E-240N	7830	8	8	12	2
10	225E-245N	6032	7	7	4	1
11	225E-250N	7226	8	8	6	1
12	225E-255N	7316	8	7	8	2
13	225E-260N	8702	9	8	8	2
14	225E-265N	8908	9	8	8	2
15	225E-270N	7818	8	8	8	2
16	225E-275N	7300	8	7	10	1
17	225E-280N	7428	7	7	11	2
18	225E-285N	8034	8	9	7	2
19	225E-290N	6580	7	7	7	1
20	225E-295N	7308	7	7	7	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

PAGE 38

FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	225E-300N	8090	8	8	5	1
2	225E-305N	8372	8	8	7	2
3	225E-310N	9168	10	10	14	2
4	225E-315N	10118	11	10	15	2
5	225E-320N	9188	10	10	8	2
6	225E-325N	8804	10	10	6	2
7	225E-330N	8122	8	9	7	2
8	230E-195N	8108	10	7	9	1
9	230E-200N	8106	8	8	8	1
10	230E-205N	7978	8	8	11	2
11	230E-210N	8350	8	8	6	2
12	230E-215N	7964	9	8	8	2
13	230E-220N	7794	8	8	8	1
14	230E-225N	8372	9	8	10	2
15	230E-230N	8648	9	8	6	2
16	230E-235N	8050	8	8	5	2
17	230E-240N	7284	7	7	7	1
18	230E-245N	8020	7	8	10	1
19	230E-250N	7506	8	8	8	2
20	230E-255N	8396	9	9	6	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr

7

2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM

7300

N/A

Total U 4

10

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

pCi/g

Th(Nat) 1.5

1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	230E-260N	7362	7	8	9	1
2	230E-265N	7746	8	8	9	2
3	230E-270N	6028	7	6	4	1
4	230E-275N	6046	8	8	7	1
5	230E-280N	6676	7	7	7	1
6	230E-285N	7514	8	8	6	1
7	230E-290N	8282	9	8	9	1
8	230E-295N	8900	10	8	7	2
9	230E-300N	8856	10	9	7	2
10	230E-305N	9598	11	9	5	1
11	230E-310N	9798	10	10	10	1
12	230E-315N	8756	9	9	7	2
13	230E-320N	9574	10	9	5	2
14	230E-325N	9178	10	10	10	2
15	230E-330N	8008	9	9	11	1
16	235E-205N	8296	9	8	6	1
17	235E-210N	8276	8	8	6	2
18	235E-215N	8150	8	7	12	1
19	235E-220N	8116	8	8	4	1
20	235E-225N	8320	9	8	4	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED
PAGE 40
FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	235E-230N	8040	8	8	6	2
2	235E-235N	7578	9	8	6	1
3	235E-240N	6492	7	7	5	1
4	235E-245N	7712	8	8	6	1
5	235E-250N	8742	8	8	6	2
6	235E-255N	8546	9	9	7	1
7	235E-260N	7974	8	8	7	1
8	235E-265N	6338	7	7	4	1
9	235E-270N	7422	9	8	7	1
10	235E-275N	7328	8	7	5	1
11	235E-280N	6178	7	8	4	1
12	235E-285N	8550	10	8	5	1
13	235E-290N	9254	10	8	6	2
14	235E-295N	9136	10	10	7	2
15	235E-300N	9436	10	10	6	1
16	235E-305N	9102	10	10	8	1
17	235E-310N	8132	8	8	16	2
18	235E-315N	8424	10	10	10	2
19	235E-320N	8552	10	10	10	1
20	235E-325N	7134	8	9	9	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr

7

2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM

7300

N/A

Total U

4

10

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

pCi/g

Th(Nat)

1.5

1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	235E-330N	7952	8	8	9	1
2	240E-210N	7184	7	8	3	1
3	240E-215N	7806	8	7	6	1
4	240E-220N	8182	8	7	11	2
5	240E-225N	7880	8	8	11	1
6	240E-230N	8214	9	9	8	1
7	240E-235N	7836	9	8	10	1
8	240E-240N	7418	8	7	8	1
9	240E-245N	7844	8	8	11	1
10	240E-250N	8034	8	8	6	2
11	240E-255N	7918	9	8	8	2
12	240E-260N	7642	8	7	5	1
13	240E-265N	6528	7	6	5	1
14	240E-270N	7060	7	7	6	1
15	240E-275N	8830	10	8	5	2
16	240E-280N	9970	10	9	7	2
17	240E-285N	9376	10	9	9	1
18	240E-290N	9654	10	10	12	1
19	240E-295N	9528	10	10	12	1
20	240E-300N	6732	8	9	9	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.Q. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	240E-305N	8234	10	10	13	2
2	240E-310N	9166	11	10	6	1
3	240E-315N	7484	8	9	11	1
4	240E-320N	7758	8	8	15	1
5	240E-325N	7850	9	9	8	1
6	240E-330N	8612	8	9	5	1
7	245E-220N	7138	7	7	7	1
8	245E-225N	8342	9	7	8	1
9	245E-230N	8870	10	8	8	1
10	245E-235N	8272	8	7	9	1
11	245E-240N	7934	8	8	8	2
12	245E-245N	8506	9	8	4	1
13	245E-250N	7114	7	7	7	1
14	245E-255N	6614	8	6	6	1
15	245E-260N	6654	7	7	5	1
16	245E-265N	7198	8	7	5	1
17	245E-270N	8792	9	8	10	2
18	245E-275N	8932	10	9	7	2
19	245E-280N	9086	10	10	13	1
20	245E-285N	9878	10	10	6	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr

7

2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM

7300

N/A

Total U

4

10

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

pCi/g

Th(Nat)

1.5

1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

**CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES**

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	245E-290N	8742	9	10	10	1
2	245E-295N	9202	9	9	5	1
3	245E-300N	9278	10	9	8	2
4	245E-305N	9072	9	9	9	1
5	245E-310N	7184	9	9	12	1
6	245E-315N	7258	9	9	9	1
7	245E-320N	7306	8	8	5	1
8	245E-325N	8542	9	9	6	1
9	245E-330N	8252	8	9	7	1
*10	245E-460N	4700	13	13	5	1
*11	245E-465N	4790	13	13	2	2
12	250E-230N	7116	8	8	5	1
13	250E-235N	7834	8	7	5	2
14	250E-240N	7906	8	8	6	2
15	250E-245N	7636	8	7	5	1
16	250E-250N	7310	8	8	5	1
17	250E-255N	7010	7	7	9	1
18	250E-260N	7126	8	7	5	1
19	250E-265N	7648	8	7	7	1
20	250E-270N	8424	8	8	4	2
21	250E-275N	8720	9	8	13	1
22	250E-280N	6546	7	8	9	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDDLUM MICRO 'R' METER - MODEL 19 S/N 111299	µR/hr	7	2
* LUDDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED
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FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	250E-285N	7582	8	7	4	1
2	250E-290N	9216	10	10	4	1
3	250E-295N	9444	10	9	8	1
4	250E-300N	8668	10	9	8	2
5	250E-305N	7916	8	8	6	1
6	250E-310N	7716	7	8	11	1
7	250E-315N	7604	8	8	6	1
8	250E-320N	6928	7	7	5	1
9	250E-325N	8614	9	8	7	1
10	250E-330N	7922	8	7	10	1
11	250E-335N	8836	9	8	5	2
12	250E-340N	8824	10	10	9	1
13	250E-345N	5648	6	7	8	1
14	250E-350N	6420	7	7	5	1
15	250E-355N	5764	6	7	8	1
16	250E-360N	7362	7	7	7	1
17	250E-365N	8412	8	8	10	1
18	250E-370N	8642	9	8	4	1
19	250E-375N	8894	9	9	7	2
20	250E-380N	9488	9	9	12	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED
PAGE 45
FILE: PHIIHASS

W. Q. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	250E-385N	9938	10	9	11	2
2	250E-390N	10186	10	10	10	1
3	250E-395N	10164	10	10	5	2
4	250E-400N	10186	10	10	10	2
5	250E-405N	9830	10	10	11	2
6	250E-410N	10212	10	8	9	2
7	250E-415N	9538	10	10	10	2
8	250E-420N	9112	9	9	8	2
9	250E-425N	9814	11	9	12	2
10	250E-430N	9694	9	9	10	2
11	250E-435N	10026	9	9	6	2
12	250E-440N	8978	9	9	12	2
13	250E-445N	8536	9	9	8	1
14	250E-450N	8674	9	9	8	2
15	250E-455N	8172	8	8	6	2
16	250E-460N	9470	9	8	6	2
*17	250E-465N	4650	12	12	6	1
18	255E-230N	7256	7	7	8	2
19	255E-235N	7386	8	7	5	2
20	255E-240N	7220	7	8	9	1
21	255E-245N	7484	8	8	4	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	µR/hr	7	2
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g Th(Nat)	1.5	1

BACKGROUND NOT SUBTRACTED
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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	255E-250N	6806	7	8	5	1
2	255E-255N	6882	8	7	4	1
3	255E-260N	6526	7	7	7	1
4	250E-265N	8901	9	8	6	1
5	255E-270N	8892	9	9	12	1
6	255E-275N	7628	8	8	8	1
7	255E-280N	8400	9	8	6	2
8	255E-285N	8964	9	8	10	1
9	255E-290N	6440	7	7	15	1
10	255E-295N	6750	7	6	7	1
11	255E-300N	7840	8	7	7	1
12	255E-305N	5432	6	6	8	1
13	255E-310N	7290	7	7	5	1
14	255E-315N	7126	8	8	6	1
15	255E-320N	6376	7	6	8	1
16	255E-325N	5990	6	6	5	1
17	255E-330N	5084	6	6	7	1
18	255E-335N	7336	8	8	6	1
19	255E-340N	7566	8	8	9	1
20	255E-345N	5794	7	7	8	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED
PAGE 47
FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

**CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES**

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	255E-350N	6370	7	7	9	1
2	255E-355N	8246	9	8	9	2
3	255E-360N	8262	8	8	6	1
4	255E-365N	8826	10	9	5	2
5	255E-370N	9230	9	9	7	1
6	255E-375N	9586	10	10	8	2
7	255E-380N	9386	10	9	7	1
8	255E-385N	9782	10	9	9	2
9	255E-390N	10106	10	10	10	2
10	255E-395N	10276	10	10	9	2
11	255E-400N	9756	10	9	6	2
12	255E-405N	9776	10	9	4	2
13	255E-410N	9496	10	9	6	1
14	255E-415N	9568	10	10	4	2
15	255E-420N	9802	9	9	5	2
16	255E-425N	9170	9	9	8	2
17	255E-430N	9312	10	9	8	2
18	255E-435N	9410	10	9	6	2
*19	255E-465N	3730	12	12	5	1
20	260E-230N	7418	8	7	6	1
21	260E-235N	7116	7	7	11	1

RESULTS IN: BACKGROUND MDA

INSTRUMENTS:

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	µR/hr	7	2
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED
PAGE 48
FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	260E-240N	7256	7	7	5	1
2	260E-245N	7008	7	7	6	1
3	260E-250N	6706	8	7	7	1
4	260E-255N	6706	7	7	6	1
5	260E-260N	8674	9	8	5	2
6	260E-265N	8602	9	9	11	1
7	260E-270N	9996	10	9	9	1
8	260E-275N	9472	8	8	8	2
9	260E-280N	8312	9	8	6	1
10	260E-285N	6670	7	7	7	1
11	260E-290N	6968	8	7	6	1
12	260E-295N	6590	7	8	4	1
13	260E-300N	5967	7	7	11	1
14	260E-305N	5756	7	6	6	1
15	260E-310N	5426	6	6	1	1
16	260E-315N	5912	6	6	7	1
17	260E-320N	5474	6	6	5	1
18	260E-325N	4516	5	5	7	1
19	260E-330N	6768	7	6	7	1
20	260E-335N	5680	7	7	6	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED
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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	260E-340N	6030	6	7	4	1
2	260E-345N	8596	8	8	7	1
3	260E-350N	8726	8	8	5	1
4	260E-355N	8908	9	8	6	1
5	260E-360N	9714	9	9	4	1
6	260E-365N	9594	10	10	5	1
7	260E-370N	10038	9	9	10	2
8	260E-375N	10254	9	9	4	2
9	260E-380N	10052	10	10	7	2
10	260E-385N	10388	10	10	5	2
11	260E-390N	10416	9	10	7	2
12	260E-395N	10662	10	9	6	2
13	260E-400N	10232	10	9	3	2
14	260E-405N	9956	10	9	10	2
15	260E-410N	10216	9	9	8	2
16	260E-415N	10226	10	9	6	2
*17	260E-470N	4850	13	14	6	2
18	265E-230N	7690	9	9	9	1
19	265E-235N	6888	7	8	5	1
20	265E-240N	6628	7	8	4	1
21	265E-245N	7754	9	7	6	1

INSTRUMENTS: _____

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	μR/hr	7	2
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	265E-250N	8460	8	8	7	1
2	265E-255N	8734	9	8	6	1
3	265E-260N	9838	8	8	6	1
4	265E-265N	9228	10	9	9	1
5	265E-270N	9758	10	9	8	1
6	265E-275N	9488	10	8	13	1
7	265E-280N	6430	8	7	9	1
8	265E-285N	7192	6	7	9	1
9	265E-290N	6388	7	7	9	1
10	265E-295N	4992	7	7	9	1
11	265E-300N	7626	7	7	5	1
12	265E-305N	5480	6	6	7	1
13	265E-310N	6146	7	7	9	1
14	265E-315N	7968	8	8	9	1
15	265E-320N	7194	8	8	9	1
16	265E-325N	6734	9	8	6	1
17	265E-330N	8042	7	7	11	1
18	265E-335N	7738	8	7	9	1
19	265E-340N	8188	7	7	4	1
20	265E-345N	8202	8	7	7	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	265E-350N	9642	9	9	6	1
2	265E-355N	9986	10	9	6	2
3	265E-360N	9756	10	9	9	2
4	265E-365N	10254	9	9	6	2
5	265E-370N	10520	10	10	7	2
6	265E-375N	9992	10	10	8	2
7	265E-380N	10468	10	9	7	2
8	265E-385N	10766	9	9	13	1
9	265E-390N	10526	10	9	9	1
10	265E-395N	10518	10	10	6	2
*11	265E-470N	5190	13	11	6	2
12	270E-225N	7570	8	8	3	2
13	270E-230N	8096	9	9	6	1
14	270E-235N	7446	8	8	4	1
15	270E-240N	9118	11	8	7	1
16	270E-245N	9180	9	9	5	2
17	270E-250N	8650	9	9	9	2
18	270E-255N	9130	9	9	8	1
19	270E-260N	8938	10	9	6	1
20	270E-265N	9944	10	9	9	2
21	270E-270N	9208	9	8	5	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	μR/hr	7	2
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. C. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	270E-275N	6700	8	8	13	1
2	270E-280N	7286	7	7	7	2
3	270E-285N	8882	7	7	9	1
4	270E-290N	8574	9	8	8	2
5	270E-295N	7512	7	7	7	1
6	270E-300N	8200	8	7	5	1
7	270E-305N	8662	7	7	5	1
8	270E-310N	8160	7	7	7	1
9	270E-315N	8074	8	8	7	1
10	270E-320N	8274	8	8	6	1
11	270E-325N	8638	8	8	5	2
12	270E-330N	9036	9	8	6	2
13	270E-335N	9016	9	9	8	2
14	270E-340N	9106	8	8	8	2
15	270E-345N	9482	9	9	5	2
16	270E-350N	9430	9	9	5	2
17	270E-355N	9950	10	9	6	2
18	270E-360N	10414	10	9	4	2
19	270E-365N	9764	10	9	6	2
20	270E-370N	9650	9	9	8	2

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	μR/hr	7	2
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LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
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Total U	4	10
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CIMARRON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat)	1.5	1
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BACKGROUND NOT SUBTRACTED
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FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	270E-375N	10198	10	9	8	2
2	270E-380N	9990	9	9	6	2
*3	270E-470N	4570	12	12	7	1
*4	270E-475N	5390	14	13	5	1
5	275E-220N	7570	9	8	8	2
6	275E-225N	7860	9	8	8	2
7	275E-230N	8064	9	9	4	2
8	275E-235N	7632	8	8	7	1
9	275E-240N	8762	8	9	5	1
10	275E-245N	8900	9	8	5	1
11	275E-250N	7630	7	7	14	1
12	275E-255N	8772	9	9	7	1
13	275E-260N	9102	10	9	6	2
14	275E-265N	8780	9	9	6	1
15	275E-270N	7362	8	7	9	1
16	275E-275N	7816	7	7	11	1
17	275E-280N	7838	8	8	7	2
18	275E-285N	8398	8	7	7	2
19	275E-290N	8882	8	8	7	1
20	275E-295N	9184	8	8	5	1
21	275E-300N	8972	9	8	9	2
22	275E-305N	8824	9	8	12	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395

CPM 4500 N/A

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

**CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES**

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	275E-310N	9094	8	8	7	1
2	275E-315N	8700	8	8	6	1
3	275E-320N	8312	8	8	8	1
4	275E-325N	8108	7	8	5	1
5	275E-330N	9200	9	8	9	1
6	275E-335N	9244	8	8	10	2
7	275E-340N	9440	9	8	10	2
8	275E-345N	9768	9	9	10	1
9	275E-350N	9288	8	7	8	2
10	275E-355N	9430	9	9	7	2
11	275E-360N	9700	10	8	7	2
*12	275E-475N	4790	13	13	6	1
13	280E-150N	6168	7	7	8	1
14	280E-155N	6700	7	7	7	2
15	280E-160N	6310	7	7	4	1
16	280E-165N	6880	7	7	9	1
17	280E-170N	7104	7	7	6	1
18	280E-215N	7882	8	8	6	1
19	280E-220N	7980	10	8	11	1
20	280E-225N	8288	10	9	8	2
21	280E-230N	7830	7	9	6	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	µR/hr	7	2
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	280E-235N	8716	9	9	10	2
2	280E-240N	9034	9	8	6	2
3	280E-245N	7424	7	10	6	1
4	280E-250N	9240	9	9	9	1
5	280E-255N	9082	10	9	8	2
6	280E-260N	8122	8	8	8	1
7	280E-265N	7556	8	8	20	1
8	280E-270N	6886	8	8	9	1
9	280E-275N	6636	6	7	6	1
10	280E-280N	6892	8	8	7	1
11	280E-285N	8596	9	8	4	1
12	280E-290N	9448	9	8	8	2
13	280E-295N	9034	8	9	7	2
14	280E-300N	9164	8	8	8	1
15	280E-305N	8874	9	8	5	1
16	280E-310N	9054	9	8	7	1
17	280E-315N	8490	9	8	5	1
18	280E-320N	8488	8	8	6	1
19	280E-325N	7792	8	7	9	1
20	280E-330N	8138	8	8	5	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	μR/hr	7	2
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LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
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Total U	4	10
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CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1
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BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

**CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES**

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	280E-335N	8954	8	8	5	1
2	280E-340N	9540	8	8	6	2
*3	280E-475N	4710	13	9	5	1
*4	280E-480N	5440	14	13	4	2
5	285E-150N	6552	7	7	8	1
6	285E-155N	6734	7	7	12	1
7	285E-160N	6300	7	6	4	1
8	285E-165N	7132	8	7	6	2
9	285E-170N	7108	7	7	7	2
10	285E-175N	7590	8	7	6	1
11	285E-180N	7564	9	7	11	1
12	285E-185N	7904	8	7	9	1
13	285E-190N	7340	8	7	9	1
14	285E-195N	7472	8	7	10	2
15	285E-200N	7060	7	7	9	1
16	285E-205N	7902	8	8	10	1
17	285E-210N	8004	8	8	7	1
18	285E-215N	8140	9	9	5	1
19	285E-220N	8498	9	9	6	2
20	285E-225N	8874	10	8	6	2
21	285E-230N	8204	8	8	7	2
22	285E-235N	7006	7	8	10	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	µR/hr	7	2
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED
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FILE: PHIIHASS

W. a. Kogen

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	285E-240N	7304	8	7	7	2
2	285E-245N	8030	9	9	5	1
3	285E-250N	7208	8	8	20	1
4	285E-255N	8480	9	8	28	1
5	285E-260N	8598	9	8	5	1
6	285E-265N	7400	8	7	7	1
7	285E-270N	7994	8	8	11	1
8	285E-275N	8506	8	8	5	1
9	285E-280N	8804	9	8	7	1
10	285E-285N	8902	9	8	10	1
11	285E-290N	8754	8	8	7	1
12	285E-295N	8462	9	9	11	1
13	285E-300N	9162	9	8	6	2
14	285E-305N	8626	8	8	9	2
15	285E-310N	8434	8	8	4	1
16	285E-315N	8546	8	7	10	2
*17	285E-480N	5200	12	13	5	1
18	289E-250N	8438	8	8	19	1
19						
20						
21						

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	μR/hr	7	2
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED
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FILE: PHIIHASS

W.A. Meyer

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	290E-150N	6044	7	7	6	1
2	290E-155N	6430	7	7	6	1
3	290E-160N	6542	7	7	8	1
4	290E-165N	7958	7	7	8	1
5	290E-170N	6526	8	8	6	1
6	290E-175N	7172	8	7	8	1
7	290E-180N	7164	8	8	9	1
8	290E-185N	7778	8	8	4	1
9	290E-190N	8182	8	8	10	1
10	290E-195N	7370	9	8	6	1
11	290E-200N	7250	8	8	6	1
12	290E-205N	7594	8	7	13	1
13	290E-210N	8390	9	8	5	2
14	290E-215N	9312	8	7	7	1
15	290E-220N	8826	8	9	7	2
16	290E-225N	6662	7	7	7	1
17	290E-230N	6334	6	7	9	1
18	290E-235N	6998	7	7	5	1
19	290E-240N	7444	10	9	12	1
20	290E-245N	8350	8	8	14	1

INSTRUMENTS: _____

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	pR/hr	7	2
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LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
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	Total U	4	10
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CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat)	1.5	1
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BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	290E-249N	7948	8	7	19	1
2	290E-250N	6302	7	6	18	1
3	290E-251N	6590	7	7	18	1
4	290E-255N	6080	6	6	6	1
5	290E-260N	6562	7	7	7	2
6	290E-265N	7216	8	8	3	1
7	290E-270N	8308	8	8	11	1
8	290E-275N	8154	8	8	8	2
9	290E-280N	9036	9	8	6	2
10	290E-285N	8588	8	8	9	1
11	290E-290N	8448	9	9	10	1
*12	290E-480N	4830	14	11	6	1
*13	290E-480N	5140	13	13	6	1
14	291E-250N	6676	7	7	21	1
15	295E-150N	5538	6	6	2	1
16	295E-155N	6228	7	7	11	1
17	295E-160N	7852	7	7	6	2
18	295E-165N	7836	7	7	7	1
19	295E-170N	7186	7	7	9	1
20	295E-175N	7444	8	8	8	1
21	295E-180N	7526	8	8	8	1
22	295E-185N	7316	7	7	9	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	µR/hr	7	2
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED
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FILE: PHIIHASS

W. C. Rozen

DATE: 7/9-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	295E-190N	6784	7	7	4	1
2	295E-195N	7524	8	8	6	2
3	295E-200N	7514	8	8	6	2
4	295E-205N	7766	8	8	7	1
5	295E-210N	8066	8	7	5	2
6	295E-215N	8826	8	9	5	2
7	295E-220N	8010	8	8	12	2
8	295E-225N	7852	8	8	10	1
9	295E-230N	6174	7	7	7	1
10	295E-235N	5954	7	7	6	1
11	295E-240N	8144	8	7	8	1
12	295E-245N	8968	8	8	5	1
13	295E-250N	7714	8	8	8	2
14	295E-255N	8168	8	8	9	2
15	295E-260N	9222	9	9	6	2
16	295E-265N	9262	9	9	4	2
17	295E-270N	8920	8	8	8	1
*18	295E-490N	5280	8	8	8	1
19	300E-150N	6266	7	7	8	2
20	300E-155N	6854	7	7	4	1
21	300E-160N	6718	7	7	5	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	µR/hr	7	2
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	300E-165N	6552	7	7	7	1
2	300E-170N	6764	8	7	7	2
3	300E-175N	6960	8	8	8	1
4	300E-180N	7562	8	7	7	1
5	300E-185N	7460	8	7	9	1
6	300E-190N	6330	7	7	4	1
7	300E-195N	7214	8	7	11	1
8	300E-200N	6950	8	7	7	1
9	300E-205N	6634	7	7	5	1
10	300E-210N	7340	8	7	8	1
11	300E-215N	6064	7	7	17	2
12	300E-220N	5944	7	6	4	1
13	300E-225N	5954	7	7	7	1
14	300E-230N	6640	7	7	17	1
15	300E-235N	6048	7	7	3	1
16	300E-240N	6480	7	7	5	1
17	300E-245N	7978	8	8	5	1
18	300E-250N	8362	9	8	14	2
19	300E-465N	8828	7	6	10	1
20	300E-475N	9652	10	9	9	2
*21	300E-480N	4520	12	14	6	1
*22	300E-485N	5330	13	13	7	2

INSTRUMENTS: _____

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	µR/hr	7	2
* LUDLUM 2220, SHIELDED 3" X 1/2" NaI DETECTOR MODEL 2220 S/N 48395	CPM	4500	N/A
LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
	Total U	4	10
CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1

BACKGROUND NOT SUBTRACTED
PAGE 62
FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	304E-465N	7216	9	9	12	1
2	305E-150N	5882	7	7	5	1
3	305E-155N	6246	7	7	8	2
4	305E-160N	7886	7	7	7	1
5	305E-165N	6590	7	7	7	2
6	305E-170N	6626	7	7	6	1
7	305E-175N	6662	7	7	4	2
8	305E-180N	6668	7	7	9	1
9	305E-185N	6820	7	7	6	1
10	305E-190N	6412	7	7	13	1
11	305E-195N	6546	8	7	5	1
12	305E-200N	7284	7	7	4	1
13	305E-205N	6940	7	7	6	1
14	305E-210N	5760	7	7	7	1
15	305E-215N	7592	7	7	9	1
16	305E-220N	6064	7	7	5	1
17	305E-225N	6622	7	7	6	1
18	305E-460N	9196	8	8	7	2
19	305E-464N	8002	10	9	8	2
20	305E-465N	8050	9	9	11	1

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

μR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. a. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	305E-466N	9572	9	8	19	1
2	305E-470N	8680	9	8	8	1
3	305E-475N	8528	10	10	7	2
4	306E-465N	9172	9	8	21	1
5	310E-150N	6232	7	7	5	1
6	310E-155N	5960	7	7	5	1
7	310E-160N	6576	8	8	8	1
8	310E-165N	6218	7	7	6	1
9	310E-170N	8300	7	7	9	2
10	310E-175N	7976	7	7	4	1
11	310E-180N	7570	8	7	10	1
12	310E-185N	6464	7	7	4	1
13	310E-190N	6862	7	7	4	1
14	310E-195N	6542	8	8	7	1
15	310E-455N	8880	10	9	13	1
16	310E-460N	8558	9	9	6	1
17	310E-465N	8584	9	8	10	1
18	310E-470N	8292	9	9	6	2
19						
20						

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299	μR/hr	7	2
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LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264	CPM	7300	N/A
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	Total U	4	10
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CIMMARON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR	pCi/g	Th(Nat) 1.5	1
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BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W. Q. Rogers

DATE: 7-14-98

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "H", AFFECTED SURFACE SAMPLES

DATE: 07/09/98

LN #	GRID NUMBER	3" DETECT C.P.M.	MICRO R' SURF	MICRO R' 1 METER	0-6" Sample	
					Total-U	Th (Nat)
1	315E-150N	5690	6	6	4	1
2	315E-155N	7334	8	7	9	2
3	315E-160N	7598	8	7	5	1
4	315E-165N	7046	7	7	15	2
5	315E-445N	9342	10	9	7	2
6	315E-450N	9678	9	9	7	1
7	315E-455N	9396	10	10	8	2
8	315E-460N	9010	10	10	3	2
9	315E-465N	8294	10	10	5	1
10	315E-470N	9704	10	10	9	1
11	320E-435N	8582	9	9	7	2
12	320E-440N	9216	9	9	4	2
13	320E-445N	8576	9	9	5	2
14	320E-450N	8920	9	9	4	2
15	320E-455N	9558	10	9	12	2
16	320E-460N	9132	11	10	7	1
17	320E-465N	9352	10	10	8	2
18	325E-430N	8748	10	10	6	2
19	325E-435N	8866	10	10	8	2
20	325E-440N	9164	10	10	7	2

INSTRUMENTS:

RESULTS IN: BACKGROUND MDA

LUDLUM MICRO 'R' METER - MODEL 19 S/N 111299

µR/hr 7 2

LUDLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR MODEL 2221 S/N 97264

CPM 7300 N/A

Total U 4 10

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

pCi/g Th(Nat) 1.5 1

BACKGROUND NOT SUBTRACTED

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FILE: PHIIHASS

W.A. Rogers

DATE: 7-14-98