

NOTES

SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).

CIMARRON GAMMA SPEC SOIL COUNTER.

SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.

LEGEND

12+ URANIUM 1 - 30 pCi/g U
31+ URANIUM > 30 pCi/g U
+1 THORIUM < 10 pCi/g Th
-+ URANIUM HIT ROCK, NO SAMPLE
+ THORIUM HIT ROCK, NO SAMPLE

20 0 20

SCALE IN METERS



LEGEND

UNAFFECTED AREA (PHASE II)
AFFECTED AREA (PHASE II)

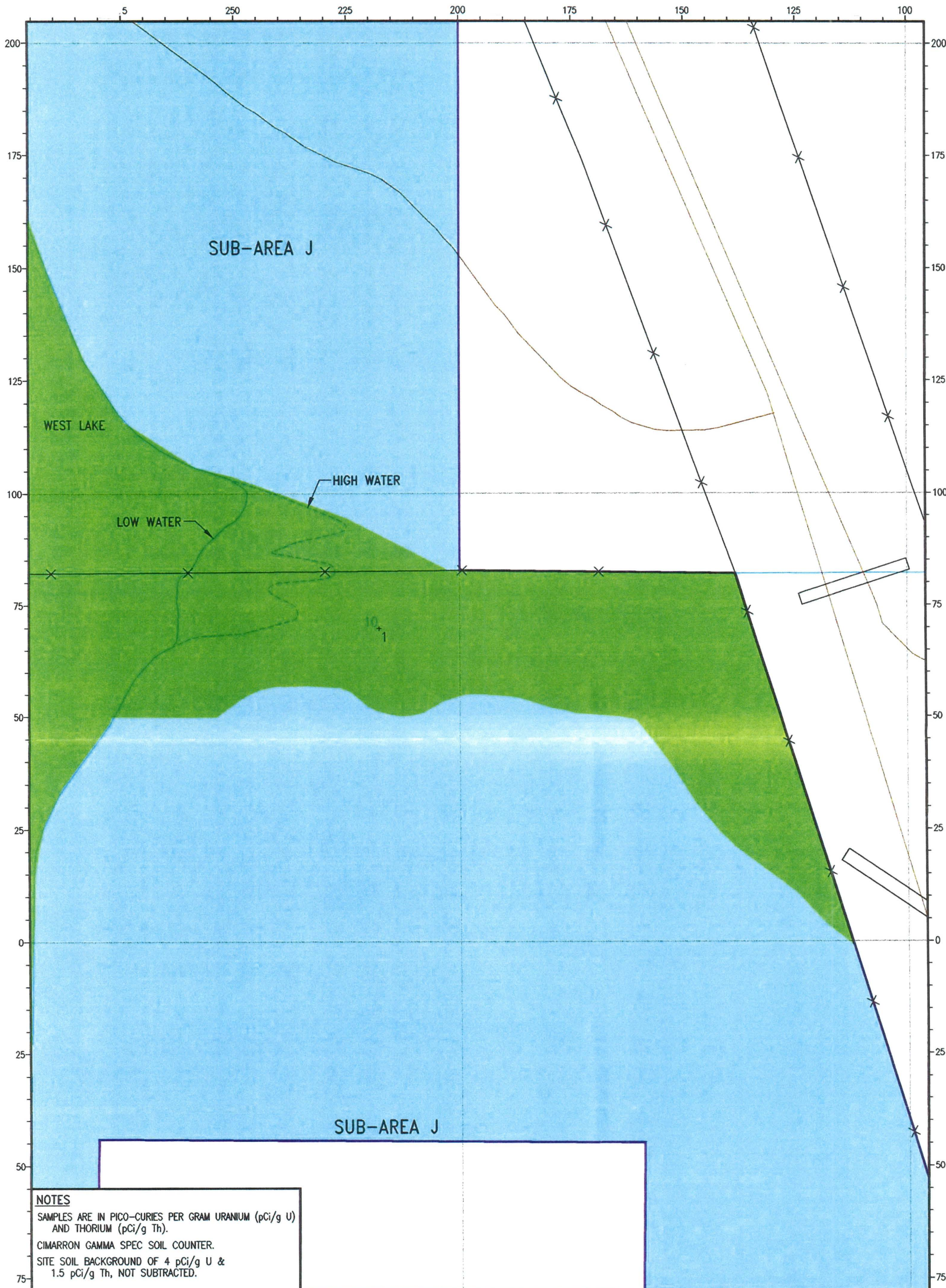


CIMARRON CORPORATION

CIMARRON FACILITY
PHASE II - SUB-AREA J
POST REMEDIATION AFFECTED AREA
CONFIRMATORY SOIL SAMPLE RESULTS (1997)
SOIL SAMPLE ALIQUOT: 2'-3'

| REV. | DESCRIPTION | DRWN BY: | CK'D BY: | APP'D BY: | DATE |
|------|-----------------|----------|----------|-----------|---------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 |

| DRWN. BY: | DATE | SCALE |
|-----------|-----------------|----------|
| JE | 7/9/97 | AS SHOWN |
| JOB NO. | DRAWING NO. | REV. |
| | 97POAJSS-CONF-3 | 0 |



NOTES

SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).
CIMARRON GAMMA SPEC SOIL COUNTER.
SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.

LEGEND

12+ URANIUM 1 - 30 pCi/g U -+ URANIUM HIT ROCK, NO SAMPLE
31+ URANIUM > 30 pCi/g U
+1 THORIUM < 10 pCi/g Th +_ THORIUM HIT ROCK, NO SAMPLE

20 0 20
SCALE IN METERS



LEGEND

UNAFFECTED AREA (PHASE II)
AFFECTED AREA (PHASE II)



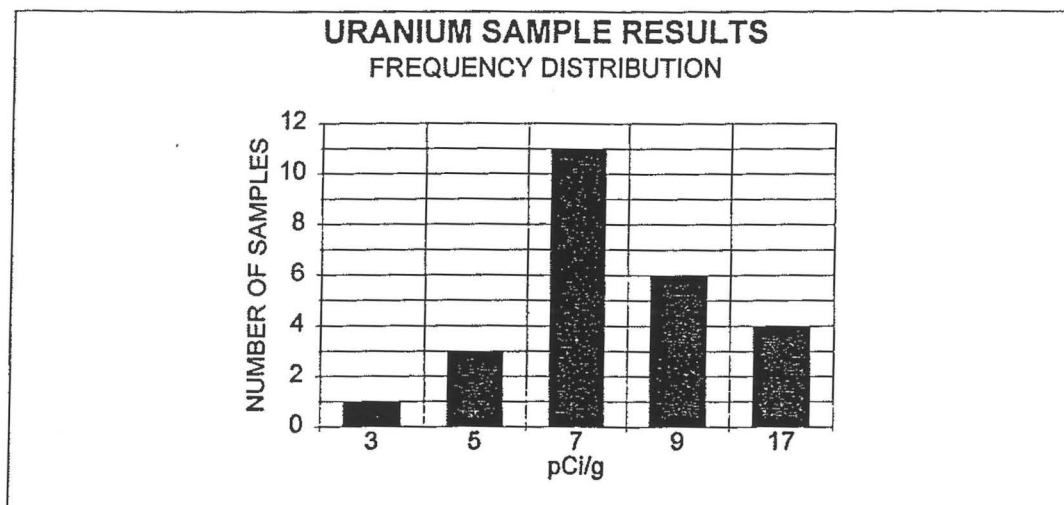
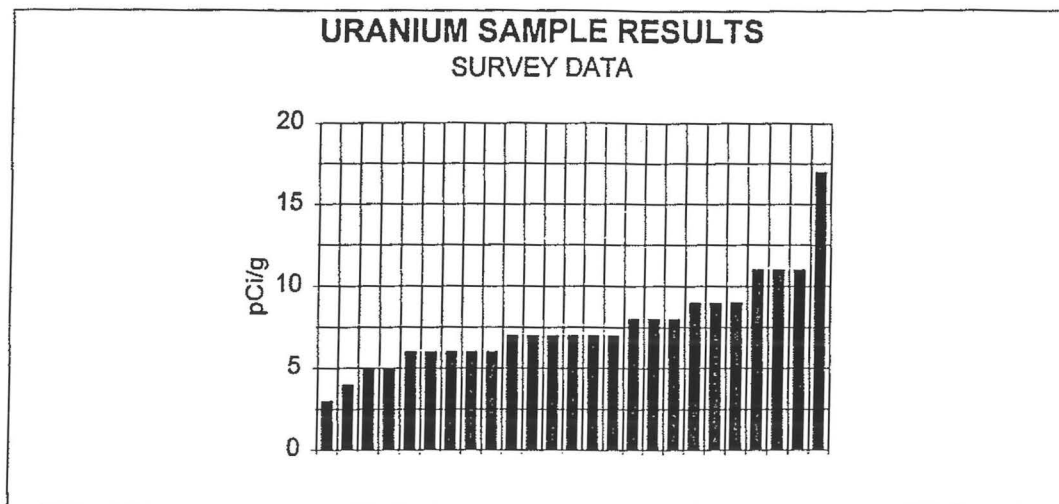
CIMARRON CORPORATION

CIMARRON FACILITY
PHASE II - SUB-AREA J
POST REMEDIATION AFFECTED AREA
CONFIRMATORY SOIL SAMPLE RESULTS (1997)
SOIL SAMPLE ALIQUOT: 4'-5'

| REV. | DESCRIPTION | DRWN BY: | CK'D BY: | APP'D BY: | DATE |
|------|-----------------|----------|----------|-----------|---------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 |

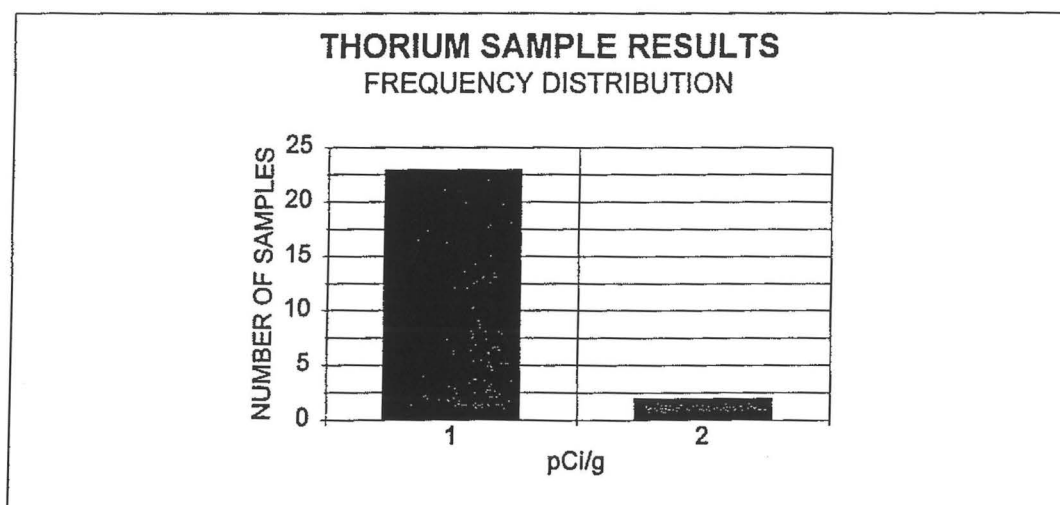
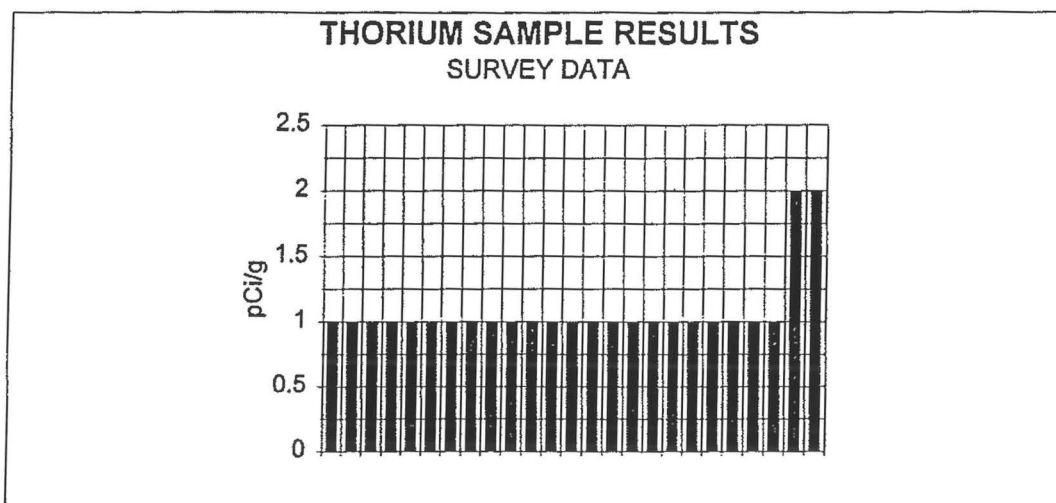
| | | | | | |
|----------|----|-------------|-----------------|-------|----------|
| DRWN. BY | JE | DATE | 7/9/97 | SCALE | AS SHOWN |
| JOB NO. | | DRAWING NO. | 97POAJSS-CONF-5 | REV. | 0 |

**PHASE II, SUB-AREA "J" - SURFACE
 DRAINAGE WAY
 CIMARRON SOIL COUNTER
 TOTAL URANIUM SAMPLE RESULTS
 SITE BACKGROUND OF 4 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|--------------------|----|
| NUMBER OF SAMPLES | 25 |
| AVERAGE SAMPLE | 8 |
| MINIMUM SAMPLE | 3 |
| MAXIMUM SAMPLE | 17 |
| STANDARD DEVIATION | 3 |

**PHASE II, SUB-AREA "J" - SURFACE
 DRAINAGE WAY
 CIMARRON SOIL COUNTER
 THORIUM (NAT) SAMPLE RESULTS
 SITE BACKGROUND OF 1.5 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|--------------------|----|
| NUMBER OF SAMPLES | 25 |
| AVERAGE SAMPLE | 1 |
| MINIMUM SAMPLE | 1 |
| MAXIMUM SAMPLE | 2 |
| STANDARD DEVIATION | 0 |

TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" DRAINAGE
n = pCi/g TOTAL U (SURFACE)

$$n = \text{pCi/g TOTAL U}$$
[illegible]

No. of Samples (x) : 25

COUNT TIME: 5 MINUTES

Sample Mean (N) = $\frac{\text{Sum}(n) + (x)}{N}$

Sample Mean (N) : 7.6

Standard Deviation (Sd) = $\text{SQRT} [(n-N)^2 + (x - 1)]$

Standard Deviation: **2.8**

| | |
|-------------------|-----|
| 2 Std Deviations: | 5.7 |
|-------------------|-----|

Degree of Freedom(df).= (x) - 1

$$(df) = 1.711$$

Data listed on Table B-1

Area's Average Level ($A\mu$) = $(N) + (df) \times [(Sd)/(x)]$

(Au) = 8.54

| pCI/gU | TOTAL U |
|--------|---------|
| 0.00 | 0.00 |
| 0.01 | 0.01 |
| 0.02 | 0.02 |
| 0.03 | 0.03 |
| 0.04 | 0.04 |
| 0.05 | 0.05 |
| 0.06 | 0.06 |
| 0.07 | 0.07 |
| 0.08 | 0.08 |
| 0.09 | 0.09 |
| 0.10 | 0.10 |
| 0.11 | 0.11 |
| 0.12 | 0.12 |
| 0.13 | 0.13 |
| 0.14 | 0.14 |
| 0.15 | 0.15 |
| 0.16 | 0.16 |
| 0.17 | 0.17 |
| 0.18 | 0.18 |
| 0.19 | 0.19 |
| 0.20 | 0.20 |
| 0.21 | 0.21 |
| 0.22 | 0.22 |
| 0.23 | 0.23 |
| 0.24 | 0.24 |
| 0.25 | 0.25 |
| 0.26 | 0.26 |
| 0.27 | 0.27 |
| 0.28 | 0.28 |
| 0.29 | 0.29 |
| 0.30 | 0.30 |
| 0.31 | 0.31 |
| 0.32 | 0.32 |
| 0.33 | 0.33 |
| 0.34 | 0.34 |
| 0.35 | 0.35 |
| 0.36 | 0.36 |
| 0.37 | 0.37 |
| 0.38 | 0.38 |
| 0.39 | 0.39 |
| 0.40 | 0.40 |
| 0.41 | 0.41 |
| 0.42 | 0.42 |
| 0.43 | 0.43 |
| 0.44 | 0.44 |
| 0.45 | 0.45 |
| 0.46 | 0.46 |
| 0.47 | 0.47 |
| 0.48 | 0.48 |
| 0.49 | 0.49 |
| 0.50 | 0.50 |
| 0.51 | 0.51 |
| 0.52 | 0.52 |
| 0.53 | 0.53 |
| 0.54 | 0.54 |
| 0.55 | 0.55 |
| 0.56 | 0.56 |
| 0.57 | 0.57 |
| 0.58 | 0.58 |
| 0.59 | 0.59 |
| 0.60 | 0.60 |
| 0.61 | 0.61 |
| 0.62 | 0.62 |
| 0.63 | 0.63 |
| 0.64 | 0.64 |
| 0.65 | 0.65 |
| 0.66 | 0.66 |
| 0.67 | 0.67 |
| 0.68 | 0.68 |
| 0.69 | 0.69 |
| 0.70 | 0.70 |
| 0.71 | 0.71 |
| 0.72 | 0.72 |
| 0.73 | 0.73 |
| 0.74 | 0.74 |
| 0.75 | 0.75 |
| 0.76 | 0.76 |
| 0.77 | 0.77 |
| 0.78 | 0.78 |
| 0.79 | 0.79 |
| 0.80 | 0.80 |
| 0.81 | 0.81 |
| 0.82 | 0.82 |
| 0.83 | 0.83 |
| 0.84 | 0.84 |
| 0.85 | 0.85 |
| 0.86 | 0.86 |
| 0.87 | 0.87 |
| 0.88 | 0.88 |
| 0.89 | 0.89 |
| 0.90 | 0.90 |
| 0.91 | 0.91 |
| 0.92 | 0.92 |
| 0.93 | 0.93 |
| 0.94 | 0.94 |
| 0.95 | 0.95 |
| 0.96 | 0.96 |
| 0.97 | 0.97 |
| 0.98 | 0.98 |
| 0.99 | 0.99 |
| 1.00 | 1.00 |

| | |
|------------------|----|
| GUIDELINE VALUE: | 30 |
|------------------|----|

| pCI/gU | TOTAL U |
|--------|---------|
| 0.00 | 0.00 |
| 0.05 | 0.05 |
| 0.10 | 0.10 |
| 0.15 | 0.15 |
| 0.20 | 0.20 |
| 0.25 | 0.25 |
| 0.30 | 0.30 |
| 0.35 | 0.35 |
| 0.40 | 0.40 |
| 0.45 | 0.45 |
| 0.50 | 0.50 |
| 0.55 | 0.55 |
| 0.60 | 0.60 |
| 0.65 | 0.65 |
| 0.70 | 0.70 |
| 0.75 | 0.75 |
| 0.80 | 0.80 |
| 0.85 | 0.85 |
| 0.90 | 0.90 |
| 0.95 | 0.95 |
| 1.00 | 1.00 |

| | |
|-------------------|------|
| Acceptable Level: | 34.0 |
|-------------------|------|

| | |
|--------|---------|
| pCi/gU | TOTAL U |
|--------|---------|

(30 PLUS BACKGROUND)

TABLE B-1

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | Infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |

For values of Degrees of Freedom not listed:

Interpolate between the listed values.

| | | |
|--------------------|--------|-----|
| (df) high value(Z) | is (B) | 95% |
| (df) low value(Y) | is (A) | 95% |

| | | |
|-----------------------|----|--------------------------|
| Desired value(df) (X) | 24 | is calculated as follow: |
|-----------------------|----|--------------------------|

$$\text{EXP}[(\text{Ln}(\text{B}) - \text{Ln}(\text{A})) + (\text{Z} - \text{Y}) (\text{X} - \text{Y}) + \text{Ln}(\text{A})]$$

| | | | |
|-----------------------|----|-------|-----|
| The (df) value for (X | 24 | 1.711 | 95% |
|-----------------------|----|-------|-----|

PERFORMED BY:

Claring Powell

DATE:

4-8-97

REVIEWED BY:

W.A. Rorer

DATE:

4-8-97

TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" DRAINAGE
(SURFACE)

[illegible]

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |

The (df) value for (X

| | | | |
|--|--------|--|-----|
| | is (B) | | 95% |
| | is (A) | | 95% |

is calculated as follow:

| | | |
|-------------------------|-------------------------|-----|
| 24 | is calculated as follow | |
| + (Z-Y) (X-Y) + Ln(A)] | | |
| 24 | 1.711 | 95% |

PERFORMED BY:

DATE:

4-8-97

RECEIVED BY.

DATE:

4-8-57

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "J", SURFACE
DRAINAGE WAY

DATE: 02/27/97

| N # | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | 0-6" Sample | |
|--------|----------------|------------------------|---------------------|------------------------|-------------|----------|
| | | | | | Total-U | Th (Nat) |
| | | | | | | |
| 1 | 120W-32N | *** | *** | *** | 6 | 1 |
| 2 | 125W-30N | *** | *** | *** | 7 | 1 |
| 3 | 130W-35N | *** | *** | *** | 6 | 1 |
| 4 | 135W-35N | *** | *** | *** | 3 | 1 |
| 5 | 140W-40N | *** | *** | *** | 8 | 1 |
| 6 | 145W-43N | *** | *** | *** | 9 | 1 |
| 7 | 150W-46N | *** | *** | *** | 7 | 1 |
| 8 | 155W-52N | *** | *** | *** | 5 | 1 |
| 9 | 160W-55N | *** | *** | *** | 6 | 2 |
| 10 | 165W-62N | *** | *** | *** | 11 | 1 |
| 11 | 170W-60N | *** | *** | *** | 6 | 1 |
| 12 | 175W-59N | *** | *** | *** | 7 | 1 |
| 13 | 180W-60N | *** | *** | *** | 6 | 1 |
| | 185W-66N | *** | *** | *** | 8 | 1 |
| 15 | 190W-68N | *** | *** | *** | 7 | 1 |
| 16 | 195W-71N | *** | *** | *** | 9 | 1 |
| 17 | 200W-74N | *** | *** | *** | 8 | 2 |
| 18 | 205W-78N | *** | *** | *** | 11 | 1 |

*** - Field survey reading NOT taken over standing water. Data collected over standing water would be low and background data would vary from reported values.

INSTRUMENTS: _____

RESULTS IN: _____

BACKGROUND MDA _____

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

pCi/g

| | | |
|---------|-----|------|
| Total U | 4 | 10 |
| Th(Nat) | 1.5 | 0.25 |

BACKGROUND NOT SUBTRACTED

REVIEWED BY:
FILE: AJDSURF

W.A. Rogers

DATE: 3-3-97

DATE: 02/27/97

*** - Field survey reading NOT taken over standing water. Data collected over standing water would be low and background data would vary from reported values.

| BACKGROUND | MDA |
|------------|-----|
|------------|-----|

| | | |
|---------|-----|------|
| Total U | 4 | 10 |
| Th(Nat) | 1.5 | 0.25 |

W. A. Boyer

DATE: 3-3-97

AJDSURF

TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" DRAINAGE
n = pCi/g TOTAL U (DEPTH)

(DEPTH)

[illegible]

No. of Samples (x) : 5

COUNT TIME: 5 MINUTES

Sample Mean (N) = $\frac{\text{Sum}(n) + (x)}{N}$

Sample Mean (N) : 9.6

Standard Deviation (Sd) = $\text{SQRT} [(n-N)^2 + (x - 1)]$

Standard Deviation: 3.2

| | |
|-------------------|-----|
| 2 Std Deviations: | 6.4 |
|-------------------|-----|

Degree of Freedom(df).= (x) - 1 Data listed on Table B-1

 $(df) = 2.132$
$$\text{Area's Average Level (A}\mu\text{)} = (N) + (df) \times [(Sd)/(x)]$$
$$(A_{\mu}) = \boxed{12.66}$$

pCI/gU TOTAL U

| | |
|------------------|----|
| GUIDELINE VALUE: | 30 |
|------------------|----|

[illegible]

| | |
|-------------------|------|
| Acceptable Level: | 34.0 |
|-------------------|------|

| pCt/qU | TOTAL U |
|--------|---------|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 26 |
| 27 | 27 |
| 28 | 28 |
| 29 | 29 |
| 30 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 36 | 36 |
| 37 | 37 |
| 38 | 38 |
| 39 | 39 |
| 40 | 40 |
| 41 | 41 |
| 42 | 42 |
| 43 | 43 |
| 44 | 44 |
| 45 | 45 |
| 46 | 46 |
| 47 | 47 |
| 48 | 48 |
| 49 | 49 |
| 50 | 50 |
| 51 | 51 |
| 52 | 52 |
| 53 | 53 |
| 54 | 54 |
| 55 | 55 |
| 56 | 56 |
| 57 | 57 |
| 58 | 58 |
| 59 | 59 |
| 60 | 60 |
| 61 | 61 |
| 62 | 62 |
| 63 | 63 |
| 64 | 64 |
| 65 | 65 |
| 66 | 66 |
| 67 | 67 |
| 68 | 68 |
| 69 | 69 |
| 70 | 70 |
| 71 | 71 |
| 72 | 72 |
| 73 | 73 |
| 74 | 74 |
| 75 | 75 |
| 76 | 76 |
| 77 | 77 |
| 78 | 78 |
| 79 | 79 |
| 80 | 80 |
| 81 | 81 |
| 82 | 82 |
| 83 | 83 |
| 84 | 84 |
| 85 | 85 |
| 86 | 86 |
| 87 | 87 |
| 88 | 88 |
| 89 | 89 |
| 90 | 90 |
| 91 | 91 |
| 92 | 92 |
| 93 | 93 |
| 94 | 94 |
| 95 | 95 |
| 96 | 96 |
| 97 | 97 |
| 98 | 98 |
| 99 | 99 |
| 100 | 100 |

(30 PLUS BACKGROUND)

TABLE B-1

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | Infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |
| | | | | | |

For values of Degrees of Freedom not listed:
Interpolate between the listed values.

| | | |
|--------------------|--------|-----|
| (df) high value(Z) | is (B) | 95% |
| (df) low value(Y) | is (A) | 95% |

| | | |
|-----------------------|---|--------------------------|
| Desired value(df) (X) | 4 | is calculated as follow: |
|-----------------------|---|--------------------------|

$$\text{EXP}[(\text{Ln}(B)-\text{Ln}(A)) + (Z-Y) (X-Y) + \text{Ln}(A)]$$

| | | | |
|------------------------|---|-------|-----|
| The (df) value for (X) | 4 | 2.132 | 95% |
|------------------------|---|-------|-----|

(DEPTH)

[illegible]

| | |
|----------------------|---|
| No. of Samples (x) : | 5 |
|----------------------|---|

COUNT TIME: 5 MINUTES

Sample Mean (N) = $\frac{\text{Sum}(n) + (x)}{n}$

Sample Mean (N) : 1.1

Standard Deviation (Sd) = $\text{SQRT} [(n-N)^2 + (x - 1)]$

| | |
|---------------------|------|
| Standard Deviation: | 0.50 |
|---------------------|------|

| | |
|-------------------|------|
| 2 Std Deviations: | 0.99 |
|-------------------|------|

Degree of Freedom(df). = $(x) - 1$ Data listed on Table B-1

(df) = 2.132

Area's Average Level ($A\mu$) = $(N) + (df) \times [(Sd) / \text{SQRT}(x)]$

(A_μ) = 1.59 pCi/gTh (NAT)

GUIDELINE VALUE: **10** pCi/gTh (NAT)

Acceptable Level: **4.0** pCi/gTh (NAT)

(25% OF GUIDELINE PLUS BACKGROUND)

TABLE B - 1

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |

For values of Degrees of Freedom not listed:

Interpolate between the listed values.

| | | |
|--------------------|--------|-----|
| (df) high value(Z) | is (B) | 95% |
| (df) low value(Y) | is (A) | 95% |

| | | |
|-----------------------|---|--------------------------|
| Desired value(df) (X) | 4 | is calculated as follow: |
|-----------------------|---|--------------------------|

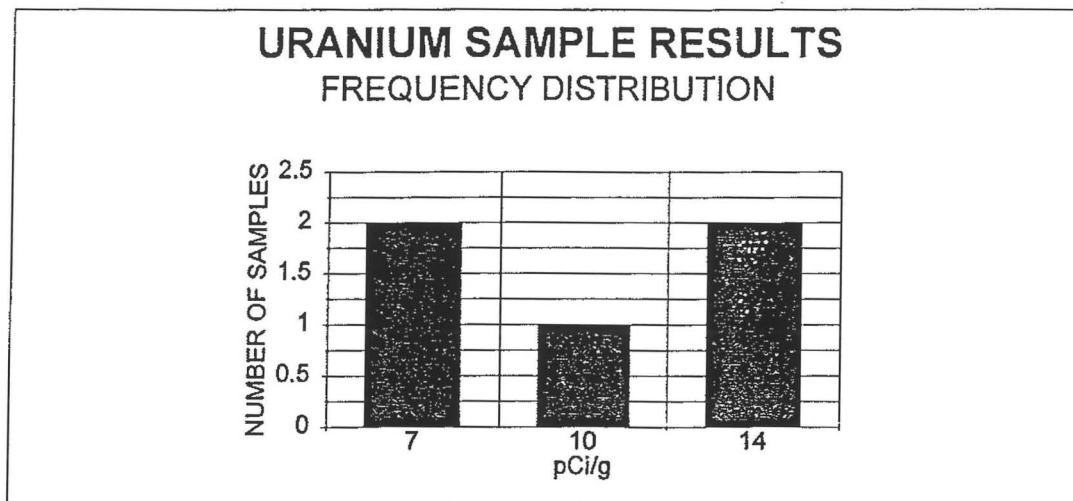
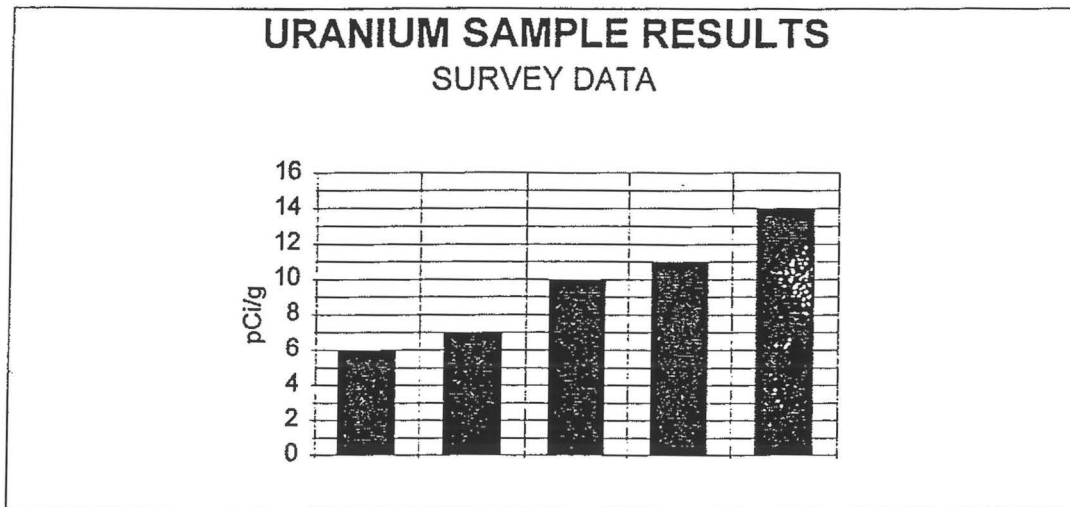
$$\text{EXP}[(\text{Ln}(\text{B}) - \text{Ln}(\text{A})) + (\text{Z} - \text{Y}) (\text{X} - \text{Y}) + \text{Ln}(\text{A})]$$

| | | | |
|------------------------|---|-------|-----|
| The (df) value for (X) | 4 | 2.132 | 95% |
|------------------------|---|-------|-----|

PERFORMED BY: Erving Powell DATE: 4-8-97
REVIEWED BY: W.A. Rogers DATE: 4-8-97

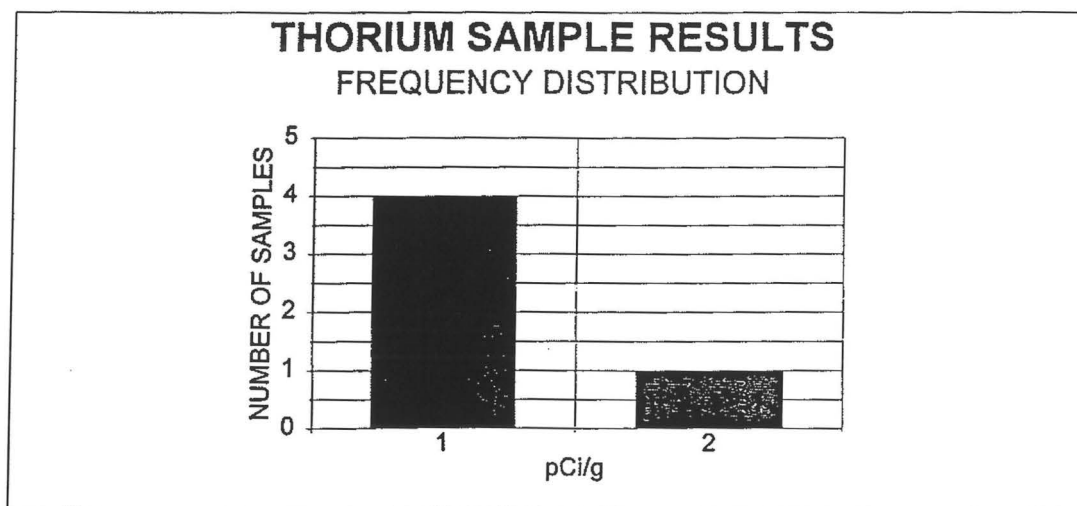
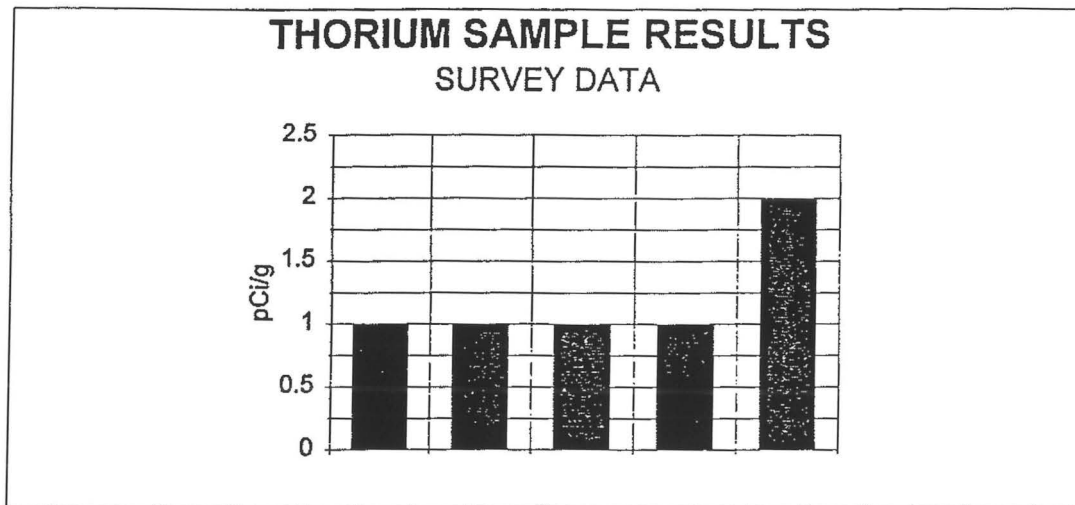
REVIEWED BY: W.A. Rogers DATE: 4-8-97

PHASE II, SUB-AREA "J" - DEPTH
DRAINAGE WAY
CIMARRON SOIL COUNTER
TOTAL URANIUM SAMPLE RESULTS
SITE BACKGROUND OF 4 pCi/g NOT SUBTRACTED
MARCH 1997



| | |
|--------------------|----|
| NUMBER OF SAMPLES | 5 |
| AVERAGE SAMPLE | 10 |
| MINIMUM SAMPLE | 6 |
| MAXIMUM SAMPLE | 14 |
| STANDARD DEVIATION | 3 |

PHASE II, SUB-AREA "J" - DEPTH
DRAINAGE WAY
CIMARRON SOIL COUNTER
THORIUM (NAT) SAMPLE RESULTS
SITE BACKGROUND OF 1.5 pCi/g NOT SUBTRACTED
MARCH 1997



| | |
|--------------------|---|
| NUMBER OF SAMPLES | 5 |
| AVGERAGE SAMPLE | 1 |
| MINIMUM SAMPLE | 1 |
| MAXIMUM SAMPLE | 2 |
| STANDARD DEVIATION | 0 |

CIMARRON FACIL
PHASE II, SUB-AREA "J", SURFACE
DRAINAGE WAY

REV.1

SAMPLE LOCATION :

GRID LOCATION :

DATE: 03/03/97

DATE: 03/03/97

| LN # | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | pCi/g | | | | | | | | | |
|---------|----------------|------------------------|---------------------|------------------------|---------|----------|---------|----------|---------|----------|---------|----------|---------|----------|
| | | | | | 0 - 6" | | 6" - 1' | | 1' - 2' | | 2' - 3' | | 3' - 4' | |
| | | | | | Total-U | Th (Nat) | Total-U | Th (Nat) | Total-U | Th (Nat) | Total-U | Th (Nat) | Total-U | Th (Nat) |
| 1 | 220W-80N | *** | *** | *** | 11 | 1 | 6 | 1 | 14 | 2 | 10 | 1 | 7 | 1 |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | |

INSTRUMENTS:

RESULTS IN

BACKGROUND

MDA

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

pCi/G

Total U 4
Th (Nat) 1.5

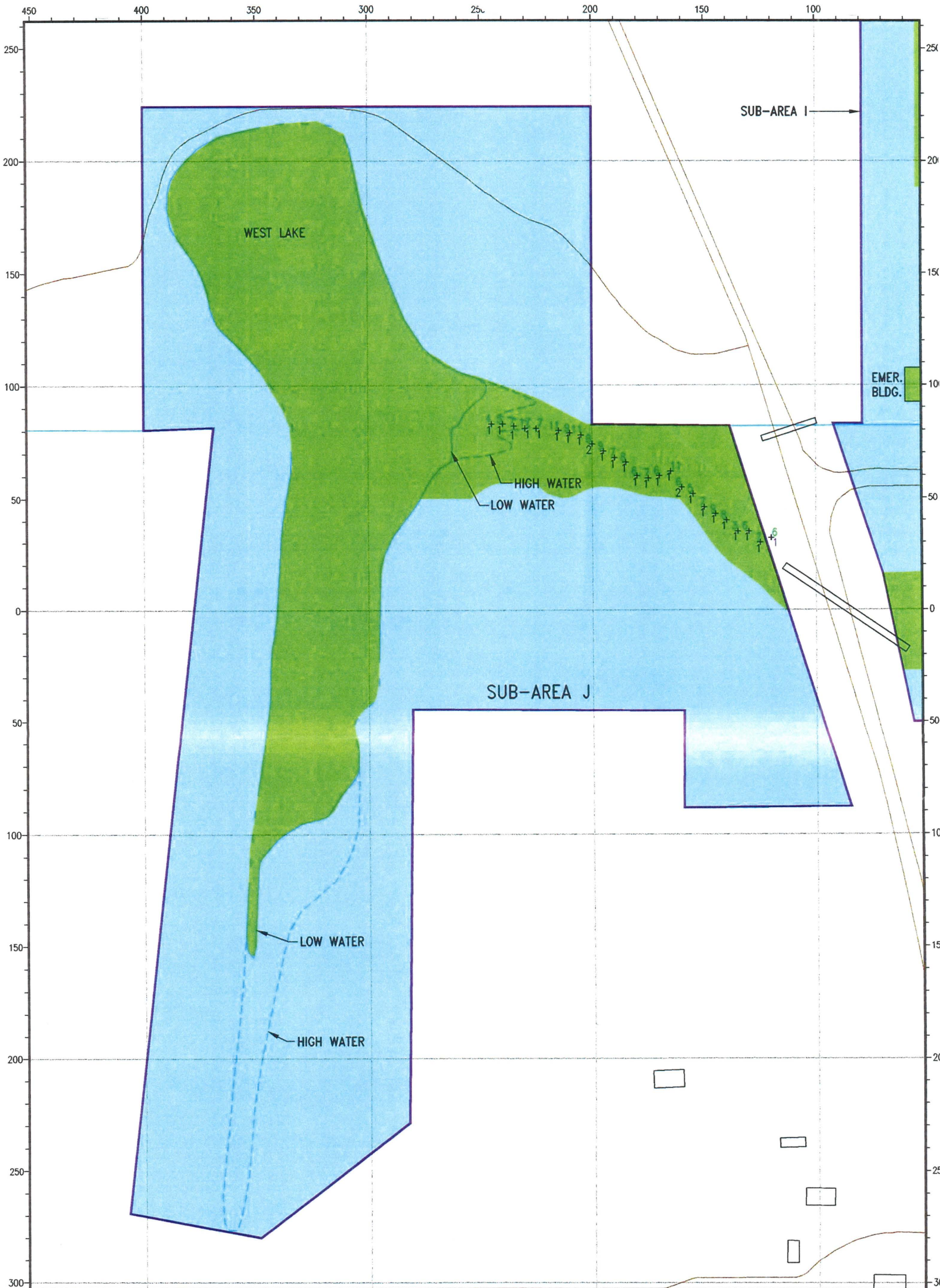
10
0.25

BACKGROUND NOT SUBTRACTED

REVIEWED BY: W.A. Rogers

DATE: 3-3-97

FILE: AJDDEPTH



NOTES:

SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).
CIMARRON GAMMA SPEC SOIL COUNTER.
SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.

8+ URANIUM
+ THORIUM

40 0 40
SCALE IN METERS



LEGEND

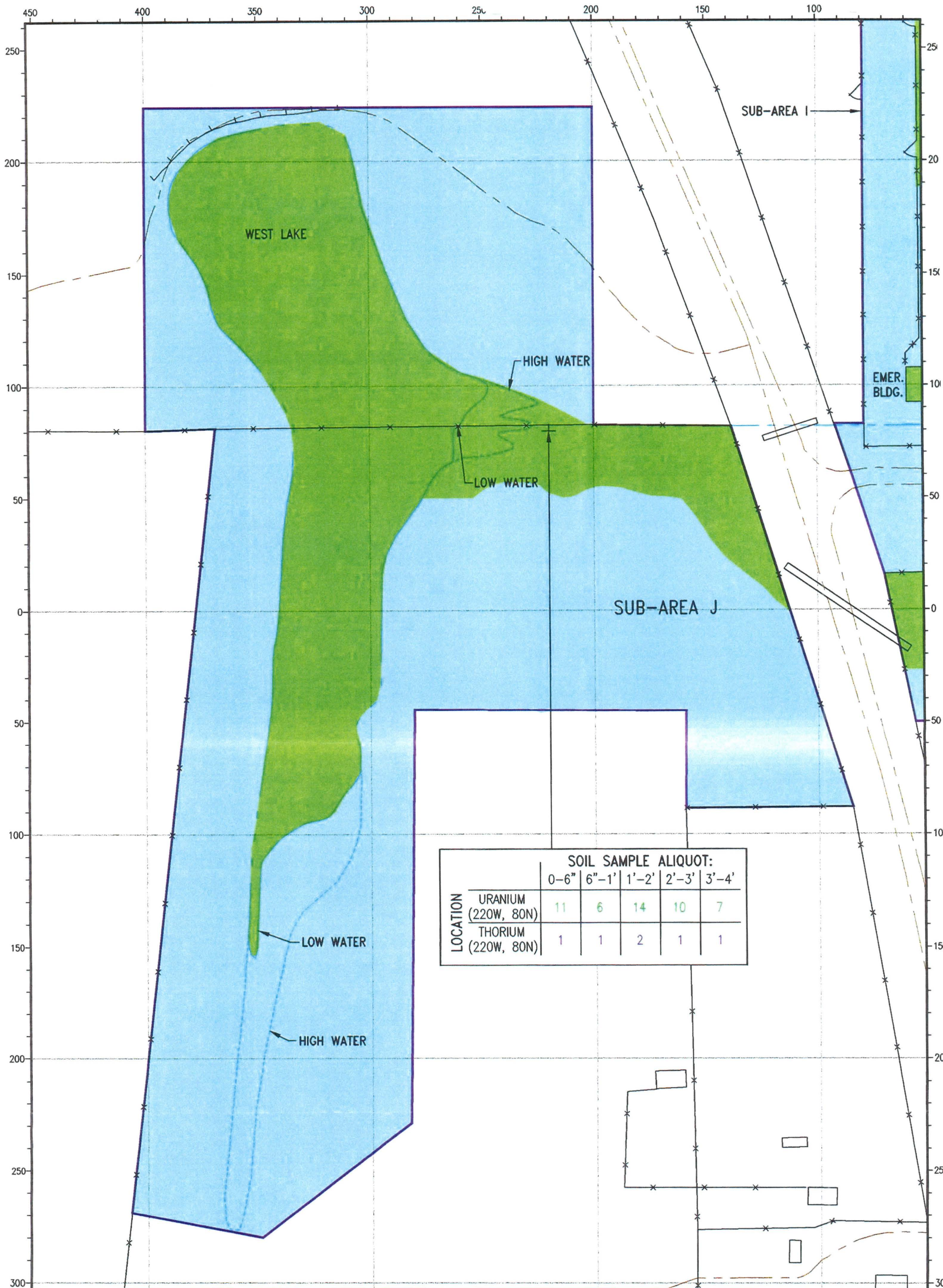
- UNAFECTED AREA (PHASE II)
- AFFECTED AREA (PHASE II)



CIMARRON CORPORATION

CIMARRON FACILITY
PHASE II - SUB-AREA J
POST REMEDIATION DRAINAGE WAY
SOIL SAMPLE RESULTS (1997)
SOIL SAMPLE ALIQUOT: 0-6"

| REV. | DESCRIPTION | DRWN BY: | CK'D BY: | APP'D BY: | DATE | DRWN BY: | DATE | SCALE | REV. |
|------|-----------------|----------|----------|-----------|---------|----------|--------|----------|------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 | JE | 7/7/97 | AS SHOWN | 0 |



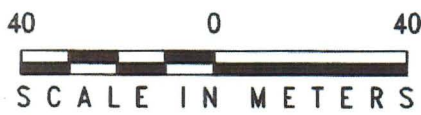
| SOIL SAMPLE ALIQUOT: | | | | | |
|------------------------|------|-------|-------|-------|-------|
| | 0-6" | 6"-1' | 1'-2' | 2'-3' | 3'-4' |
| LOCATION | | | | | |
| URANIUM (220W, 80N) | 11 | 6 | 14 | 10 | 7 |
| THORIUM (220W, 80N) | 1 | 1 | 2 | 1 | 1 |

NOTES:

SAMPLES ARE IN PICO-CURIES PER GRAM URANIUM (pCi/g U) AND THORIUM (pCi/g Th).

CIMARRON GAMMA SPEC SOIL COUNTER.

SITE SOIL BACKGROUND OF 4 pCi/g U & 1.5 pCi/g Th, NOT SUBTRACTED.



LEGEND

- UNAFFECTED AREA (PHASE II)
- AFFECTED AREA (PHASE II)



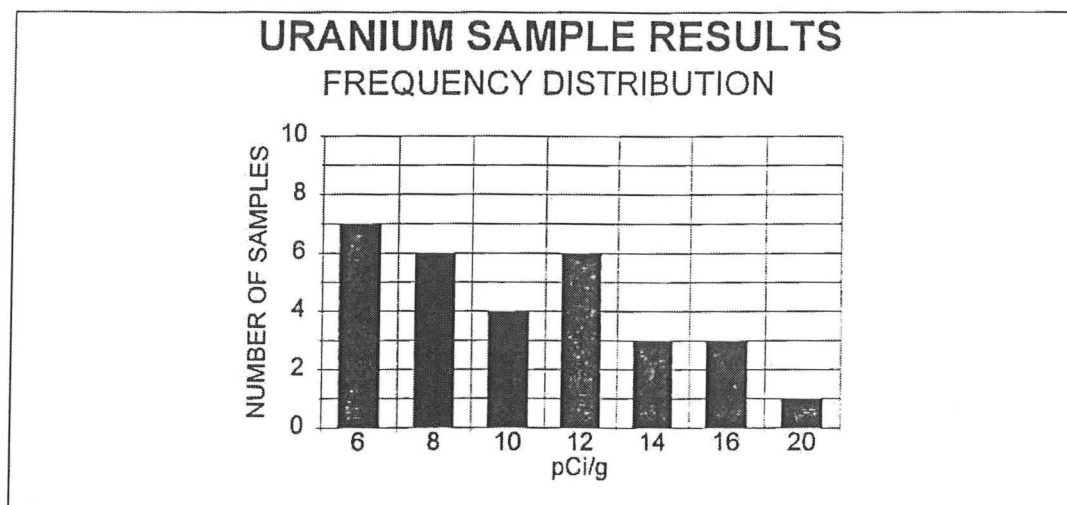
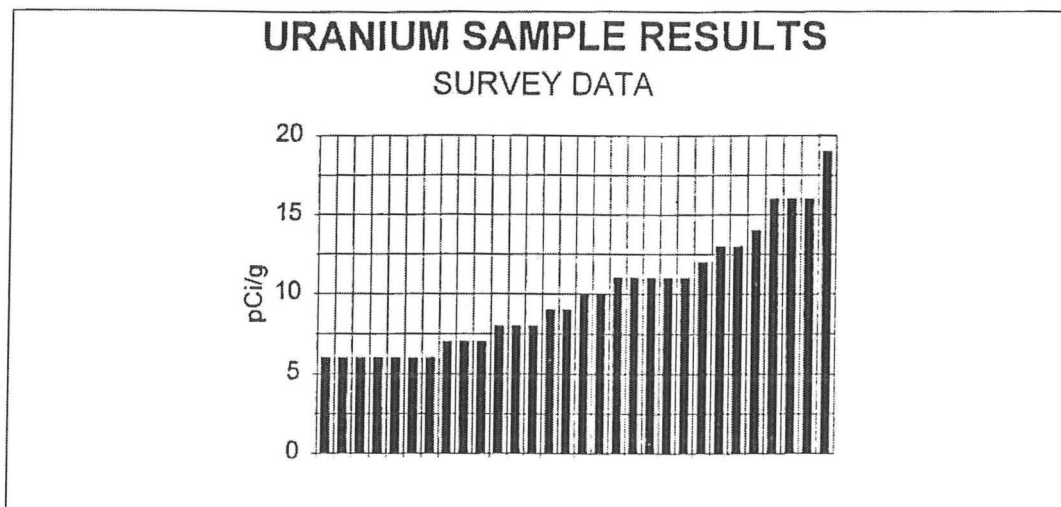
CIMARRON CORPORATION

CIMARRON FACILITY
PHASE II - SUB-AREA J
POST REMEDIATION DRAINAGE WAY
CONFIRMATORY SOIL SAMPLE RESULTS (1997)

| REV. | DESCRIPTION | DRWN BY: | CHK'D BY: | APP'D BY: | DATE |
|------|-----------------|----------|-----------|-----------|---------|
| 0 | DRAWING ISSUED. | JE | RS | JK | 8/20/97 |

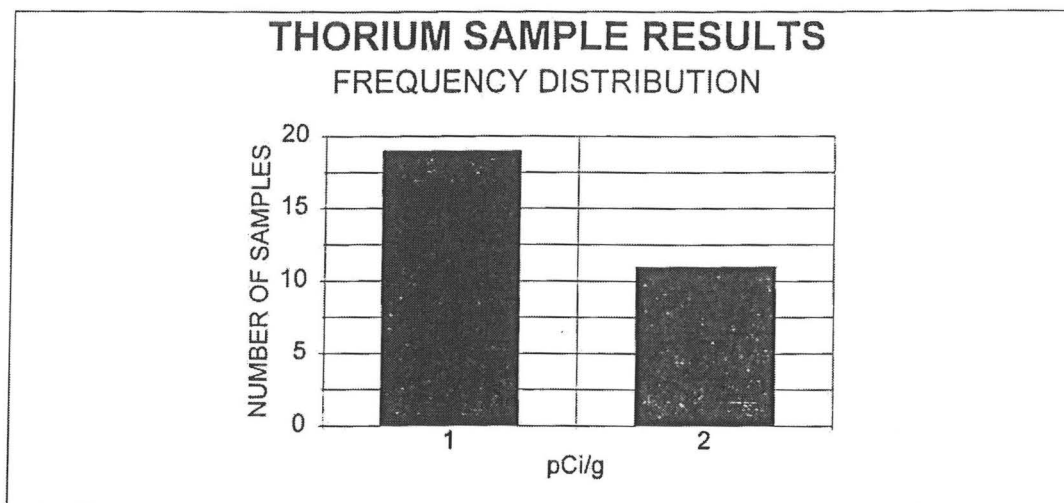
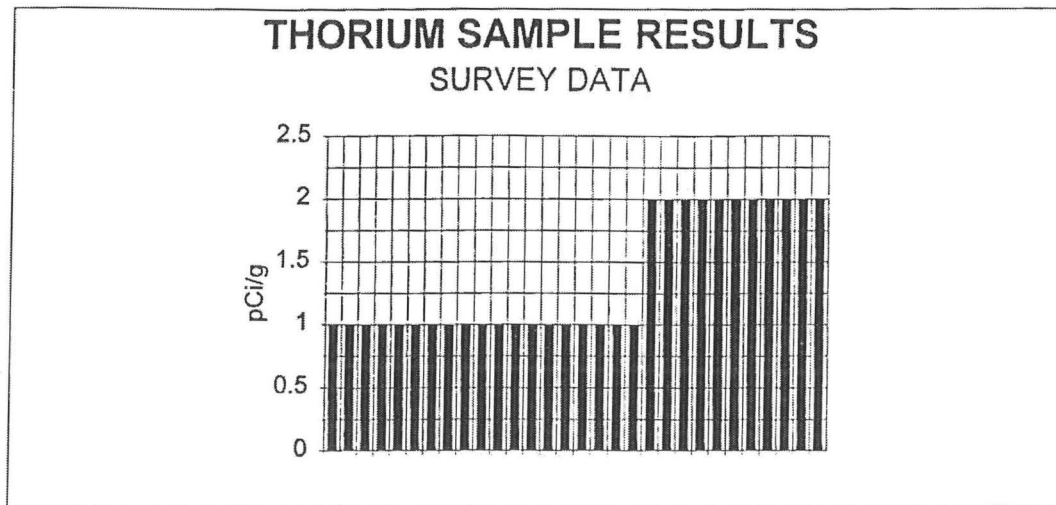
| | | |
|-------------|-----------------------------|-----------------|
| DRWN BY: JE | DATE: 7/9/97 | SCALE: AS SHOWN |
| JOB NO. | DRAWING NO. 97PODJSS-CONF-0 | REV. 0 |

**PHASE II, SUB-AREA "J" - SURFACE
 LAKE
 CIMARRON SOIL COUNTER
 TOTAL URANIUM SAMPLE RESULTS
 SITE BACKGROUND OF 4 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|--------------------|----|
| NUMBER OF SAMPLES | 30 |
| AVERAGE SAMPLE | 10 |
| MINIMUM SAMPLE | 6 |
| MAXIMUM SAMPLE | 19 |
| STANDARD DEVIATION | 4 |

**PHASE II, SUB-AREA "J" - SURFACE
 LAKE
 CIMARRON SOIL COUNTER
 THORIUM (NAT) SAMPLE RESULTS
 SITE BACKGROUND OF 1.5 pCi/g NOT SUBTRACTED
 MARCH 1997**



| | |
|--------------------|----|
| NUMBER OF SAMPLES | 30 |
| AVERAGE SAMPLE | 1 |
| MINIMUM SAMPLE | 1 |
| MAXIMUM SAMPLE | 2 |
| STANDARD DEVIATION | 0 |

TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" LAKE
n = pCi/g TOTAL U (SURFACE)

[illegible]

| | | | |
|------------------------|----|-------|-----|
| The (df) value for (X) | 29 | 1.699 | 95% |
|------------------------|----|-------|-----|

DATE: 4-8-97

TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" LAKE
n = pCi/g Th (NAT) (SURFACE)

REVIEWED BY: W. O. Rogers DATE: 4-8-97

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "J"
LAKE
COMPOSITE SAMPLES OVER DEPTH OF SEDIMENT

DATE: 02/28/97

| V | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | Sample | |
|---|----------------|------------------------|---------------------|------------------------|---------|----------|
| | | | | | Total-U | Th (Nat) |
| 1 | 260W-90N | *** | *** | *** | 6 | 1 |
| 2 | 270W-80N | *** | *** | *** | 10 | 1 |
| 3 | 290W-40N | *** | *** | *** | 6 | 1 |
| 4 | 290W-50N | *** | *** | *** | 8 | 1 |
| 5 | 290W-60N | *** | *** | *** | 8 | 1 |
| 6 | 290W-70N | *** | *** | *** | 6 | 1 |
| 7 | 290W-80N | *** | *** | *** | 6 | 1 |
| 8 | 290W-90N | *** | *** | *** | 11 | 2 |
| 9 | 290W-100N | *** | *** | *** | 7 | 1 |
| 0 | 290W-110N | *** | *** | *** | 16 | 2 |
| 1 | 290W-120N | *** | *** | *** | 12 | 1 |
| 2 | 290W-130N | *** | *** | *** | 7 | 2 |
| 3 | 290W-140N | *** | *** | *** | 9 | 1 |
| | 310W-100S | *** | *** | *** | 7 | 1 |
| 5 | 310W-190N | *** | *** | *** | 9 | 2 |
| 6 | 320W-40S | *** | *** | *** | 13 | 1 |
| 7 | 320W-10N | *** | *** | *** | 13 | 1 |
| 8 | 320W-60N | *** | *** | *** | 11 | 2 |

*** - Field survey reading NOT taken over standing water. Data collected over standing water would be low and background data would vary from reported values.

MOST SAMPLES ARE 0-1', SOME AREA 0-3'

| INSTRUMENTS: | RESULTS IN: | BACKGROUND | MDA |
|--|-------------|------------|-----|
| OLUM MICRO 'R' METER - MODEL | μR/hr | N/A | N/A |
| OLUM 2220, LEAD SHIELDED 3" X 1/2" NaI DETECTOR | CPM | N/A | N/A |
| | | Total U | 4 |
| | | Th(Nat) | 10 |
| CIMARRON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR | pCi/g | Th(Nat) | 1.5 |
| | | | 1 |

BACKGROUND NOT SUBTRACTED

VIEWED BY:

NAME: AJLSURF

W.A. Rogers

DATE: 3-3-97

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB-AREA "J"
LAKE
COMPOSITE SAMPLES OVER DEPTH OF SEDIMENT

DATE: 02/28/97

| J | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | Sample | |
|---|----------------|------------------------|---------------------|------------------------|---------|----------|
| | | | | | Total-U | Th (Nat) |
| 1 | 320W-110N | *** | *** | *** | 11 | 1 |
| 2 | 320W-160N | *** | *** | *** | 11 | 2 |
| 3 | 320W-190N | *** | *** | *** | 8 | 1 |
| 4 | 320W-210N | *** | *** | *** | 6 | 1 |
| 5 | 330W-80S | *** | *** | *** | 10 | 1 |
| 6 | 330W-190N | *** | *** | *** | 16 | 1 |
| 7 | 340W-190N | *** | *** | *** | 16 | 2 |
| 8 | 350W-100S | *** | *** | *** | 6 | 1 |
| 9 | 350W-190N | *** | *** | *** | 11 | 2 |
| 0 | 360W-190N | *** | *** | *** | 19 | 2 |
| 1 | 370W-190N | *** | *** | *** | 14 | 2 |
| 2 | 380W-190N | *** | *** | *** | 6 | 2 |
| | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |

*** - Field survey reading NOT taken over standing water. Data collected over standing water would be low and background data would vary from reported values.

MOST SAMPLES ARE 0-1', SOME AREA 0-3'

INSTRUMENTS:

RESULTS IN:

BACKGROUND

MDA

DLUM MICRO 'R' METER - MODEL

μR/hr

N/A

N/A

DLUM 2220, LEAD SHIELDED 3" X 1/2" NaI DETECTOR

CPM

N/A

N/A

Total U 4 10

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

pCi/g

Th(Nat) 1.5 1

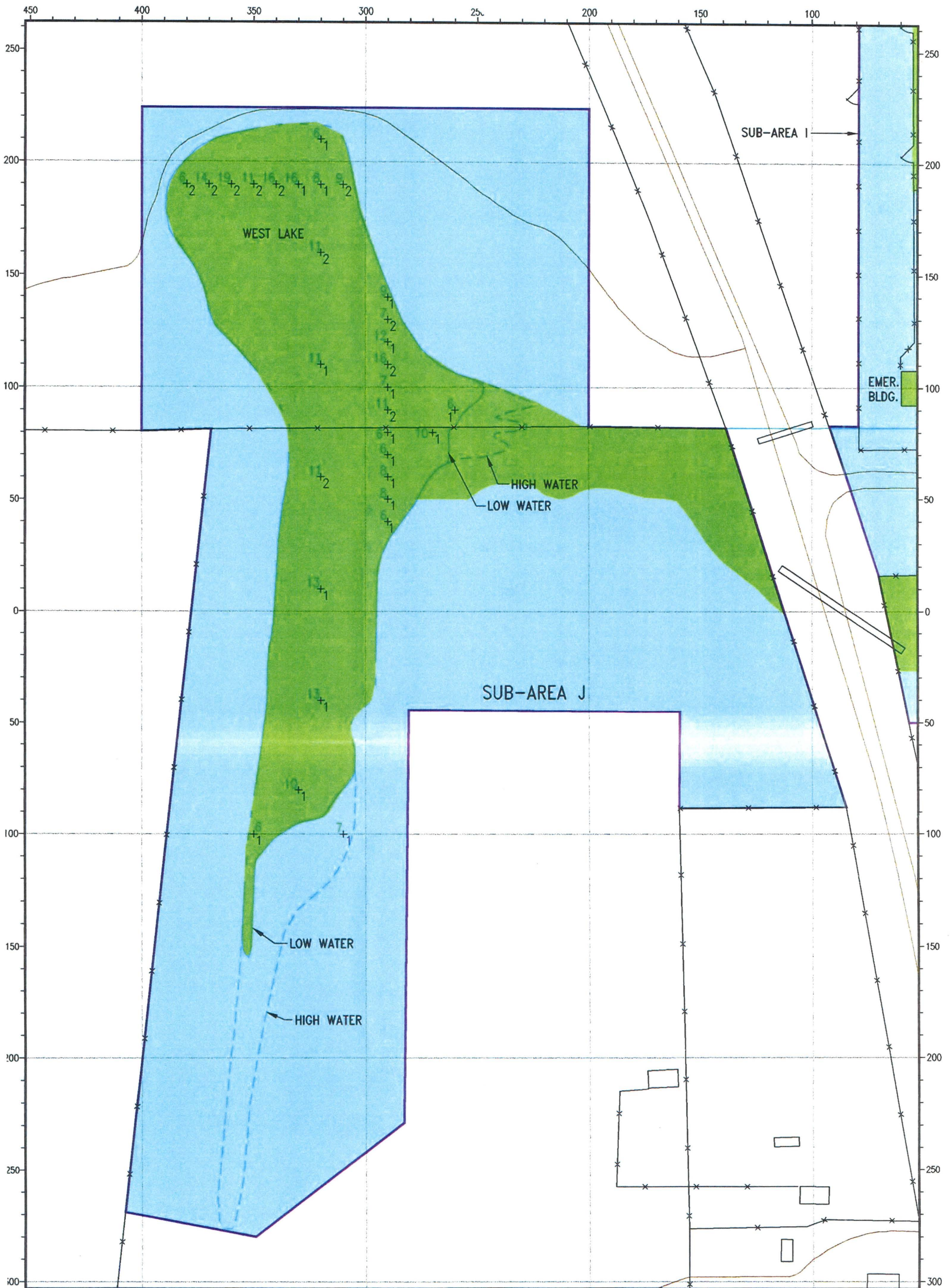
BACKGROUND NOT SUBTRACTED

INTERVIEWED BY:

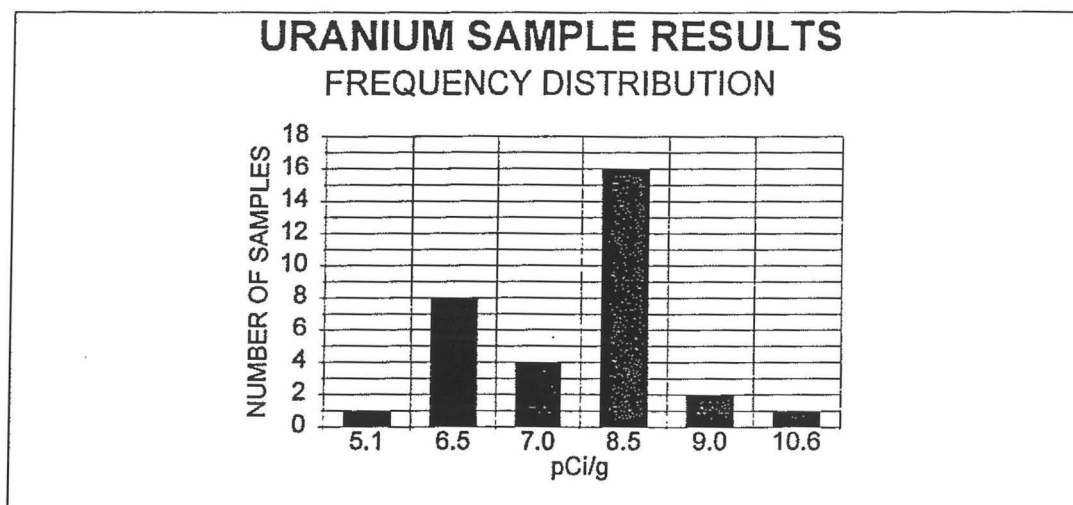
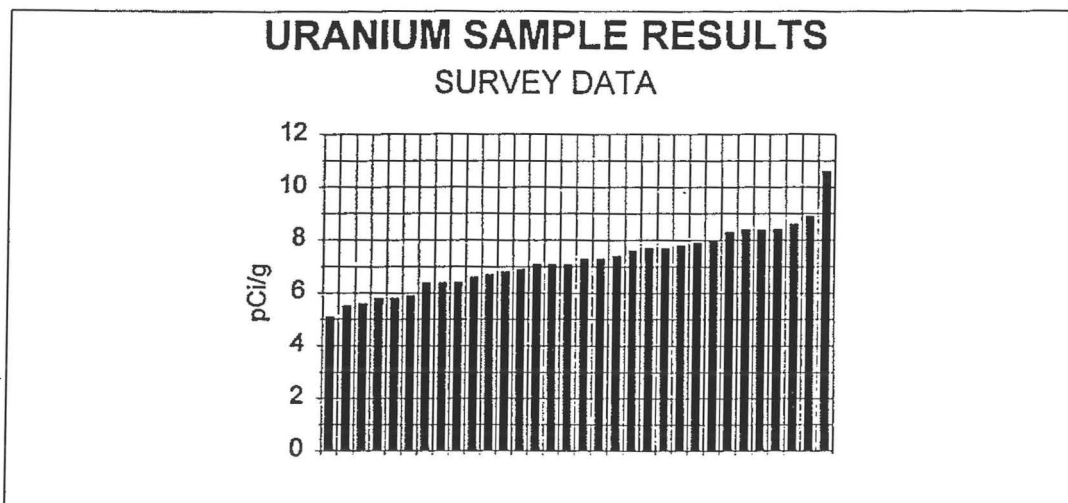
AJLSURF

W.A. Rogers

DATE: 3-3-97

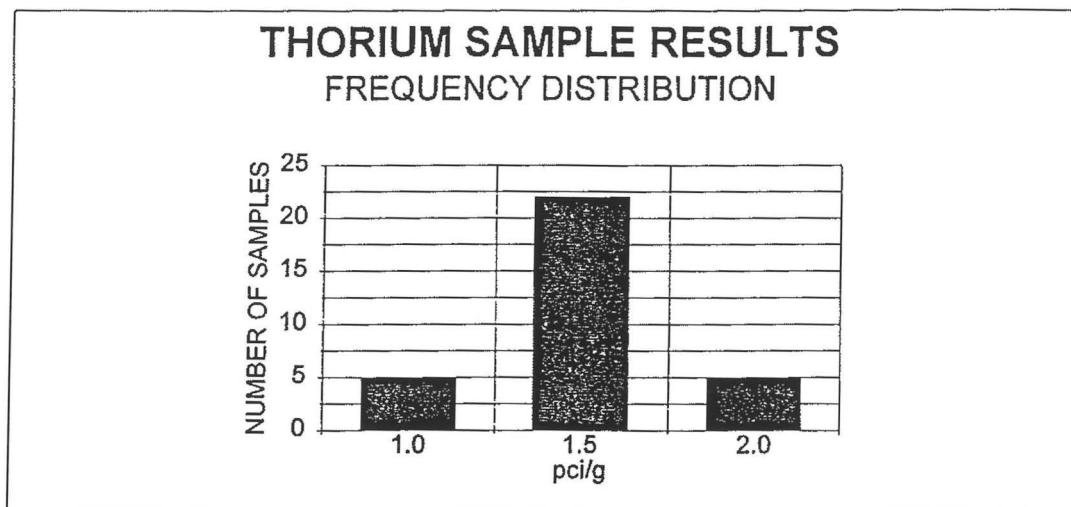
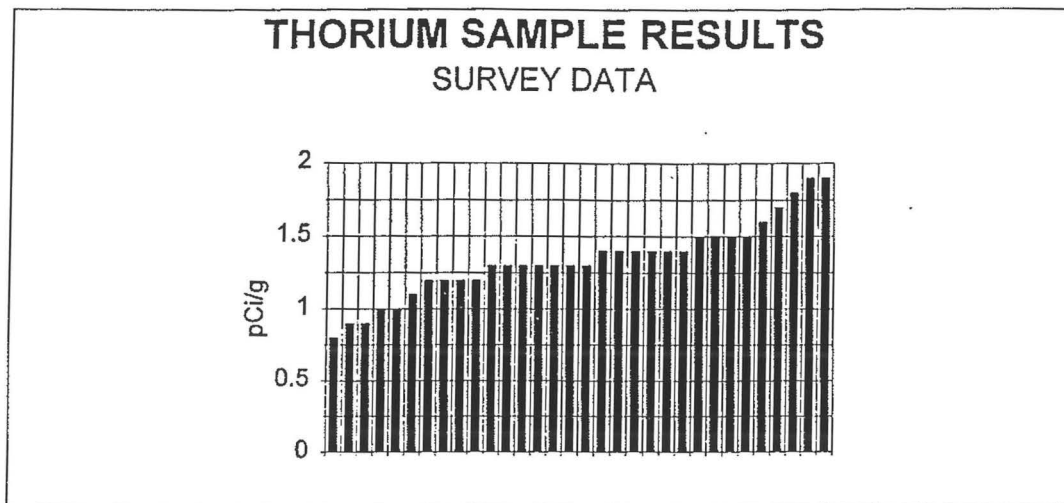


PHASE II, SUB-AREA "J" - SURFACE
UNAFFECTED AREA
CIMARRON SOIL COUNTER
TOTAL URANIUM SAMPLE RESULTS
SITE BACKGROUND OF 4 pCi/g NOT SUBTRACTED
MARCH 1997



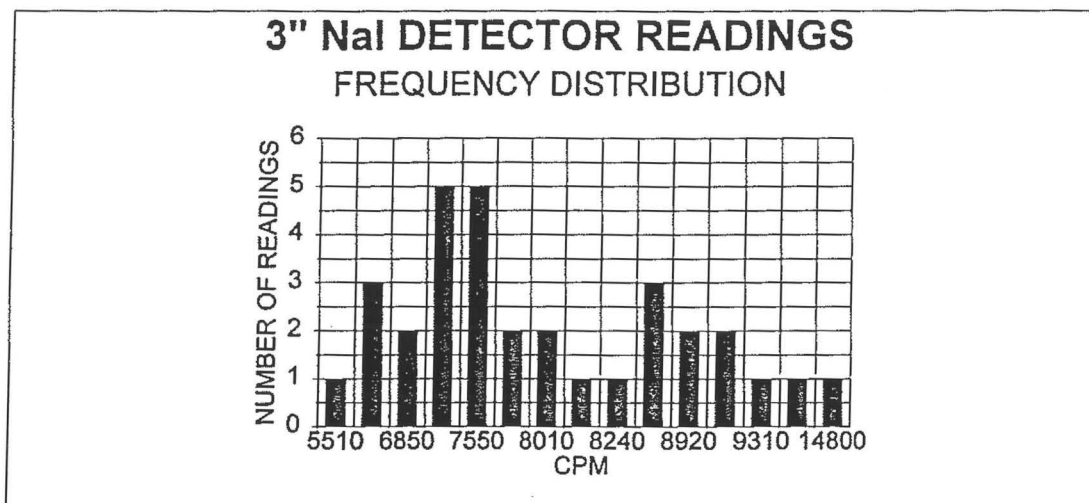
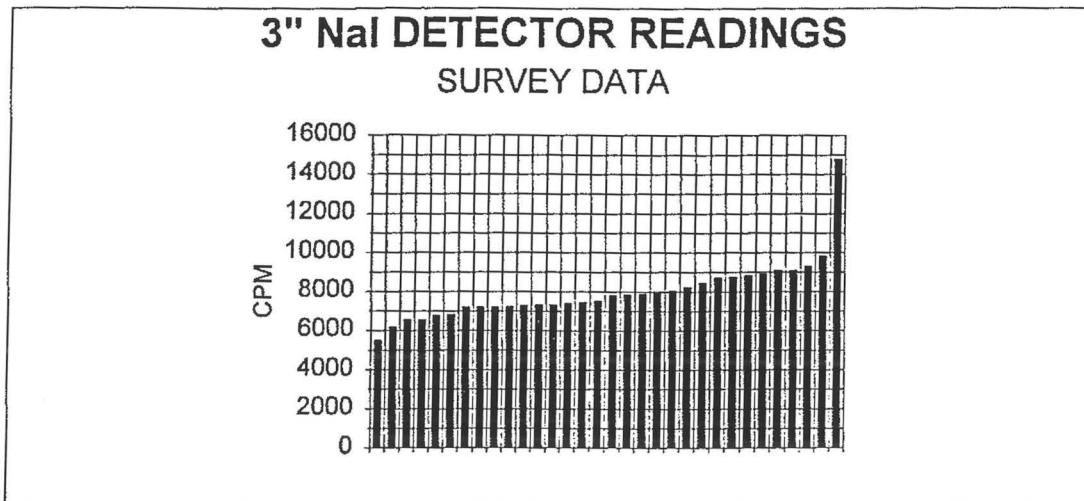
| | |
|--------------------|----|
| NUMBER OF SAMPLES | 32 |
| AVERAGE SAMPLE | 7 |
| MINIMUM SAMPLE | 5 |
| MAXIMUM SAMPLE | 11 |
| STANDARD DEVIATION | 1 |

PHASE II, SUB-AREA "J" - SURFACE
UNAFFECTED AREA
CIMARRON SOIL COUNTER
THORIUM (NAT) SAMPLE RESULTS
SITE BACKGROUND OF 1.5 pCi/g NOT SUBTRACTED
MARCH 1997



| | |
|--------------------|----|
| NUMBER OF SAMPLES | 32 |
| AVERAGE SAMPLE | 1 |
| MINIMUM SAMPLE | 1 |
| MAXIMUM SAMPLE | 2 |
| STANDARD DEVIATION | 0 |

PHASE II, SUB-AREA "J" - SURFACE
 UNAFFECTED AREA
 GROSS GAMMA READINGS IN CPM
 LUDLUM MODEL 2221, S/N 97264
 BACKGROUND AVERAGE: 7238
 MARCH 1997

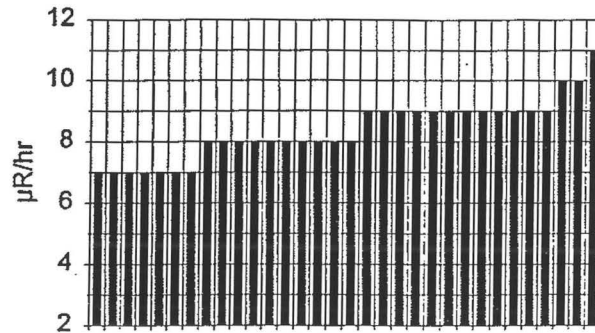


| | |
|--------------------|-------|
| NUMBER OF READINGS | 32 |
| AVERAGE READING | 7983 |
| MINIMUM READING | 5506 |
| MAXIMUM READING | 14800 |
| STANDARD DEVIATION | 1559 |

PHASE II, SUB-AREA "J" - SURFACE
 UNAFFECTED AREA
 MICRO 'R' READINGS AT SURFACE
 LUDLUM MODEL 19, S/N 111299
 RESULTS IN $\mu\text{R/hr}$
 MARCH 1997

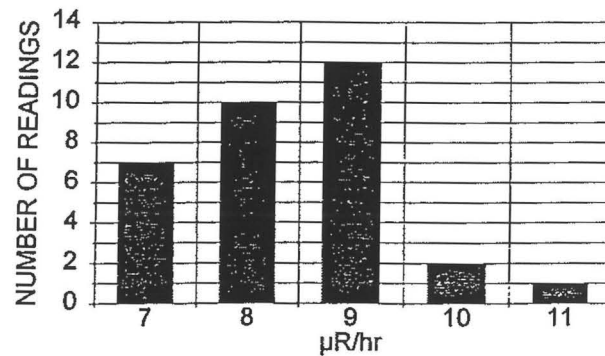
MICRO 'R' READINGS

SURVEY DATA



MICRO 'R' READINGS

FREQUENCY DISTRIBUTION



| | |
|--------------------|----|
| NUMBER OF READINGS | 32 |
| AVERAGE READING | 8 |
| MINIMUM READING | 7 |
| MAXIMUM READING | 11 |
| STANDARD DEVIATION | 1 |

| | |
|--------------------|----|
| NUMBER OF READINGS | 32 |
| AVERAGE READING | 8 |
| MINIMUM READING | 6 |
| MAXIMUM READING | 10 |
| STANDARD DEVIATION | 1 |

TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" UNAFFECTED AREA
n = pCi/g TOTAL U (SURFACE)

(SURFACE)

[illegible]

No. of Samples (x) : 32

COUNT TIME: 5 MINUTES

Sample Mean (N) = $\text{Sum}(n) \div (x)$

Sample Mean (N) : 7.2

$$\text{Standard Deviation (Sd)} = \text{SQRT} [(n-N)^2 + (x - 1)]$$

Standard Deviation: 1.2

| | |
|-------------------|-----|
| 2 Std Deviations: | 2.3 |
|-------------------|-----|

Degree of Freedom(df). = (x) - 1 Data listed on Table B-1

 $(df) = 1.696$

Area's Average Level (A_{μ}) = $(N) + (df) \times [(Sd)/(x)]$

(Au) = 7.58 pCi/gU TOTAL U

| | | | |
|------------------|----|--------|---------|
| GUIDELINE VALUE: | 30 | pCi/gU | TOTAL U |
|------------------|----|--------|---------|

Acceptable Level: 34.0 pCi/gU TOTAL U
(30 PLUS BACKGROUND)

TABLE B-1

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | Infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |

For values of Degrees of Freedom not listed:

Interpolate between the listed values.

| | | | | |
|--------------------|----|--------|-------|-----|
| (df) high value(Z) | 40 | is (B) | 1.684 | 95% |
|--------------------|----|--------|-------|-----|

| | | | | |
|------------------|----|--------|-------|-----|
| (d) low value(M) | 30 | is (A) | 1.697 | 95% |
|------------------|----|--------|-------|-----|

| | | |
|-----------------------|----|--------------------------|
| Desired value(df) (X) | 31 | is calculated as follow: |
|-----------------------|----|--------------------------|

$$\text{EXP}[(\text{Ln}(B) - \text{Ln}(A)) + (Z - Y)(X - Y) + \text{Ln}(A)]$$

| | | | |
|------------------------|----|-------|-----|
| The (df) value for (X) | 31 | 1.696 | 95% |
|------------------------|----|-------|-----|

PERFORMED BY:

Claring Powell

DATE:

4-8-97

REVIEWED BY:

W. A. Brown

DATE:

4-8-97

TRUE MEAN ACTIVITY VS. GUIDELINE VALUE AT 95% CONFIDENCE (PHASE II) SUB-AREA "J" UNAFFECTED AREA
n = pCi/g Th (NAT) (SURFACE)

[illegible]

| (df) | 95% | 97.5% | (df) | 95% | 97.5% |
|------|-------|--------|----------|-------|-------|
| 1 | 6.314 | 12.706 | 19 | 1.729 | 2.093 |
| 2 | 2.92 | 4.303 | 20 | 1.725 | 2.086 |
| 3 | 2.353 | 3.182 | 21 | 1.721 | 2.08 |
| 4 | 2.132 | 2.776 | 22 | 1.717 | 2.074 |
| 5 | 2.015 | 2.571 | 23 | 1.714 | 2.069 |
| 6 | 1.943 | 2.447 | 24 | 1.711 | 2.064 |
| 7 | 1.895 | 2.365 | 25 | 1.708 | 2.06 |
| 8 | 1.86 | 2.306 | 26 | 1.706 | 2.056 |
| 9 | 1.833 | 2.262 | 27 | 1.703 | 2.052 |
| 10 | 1.812 | 2.228 | 28 | 1.701 | 2.048 |
| 11 | 1.796 | 2.201 | 29 | 1.699 | 2.045 |
| 12 | 1.782 | 2.179 | 30 | 1.697 | 2.042 |
| 13 | 1.771 | 2.16 | 40 | 1.684 | 2.021 |
| 14 | 1.761 | 2.145 | 60 | 1.671 | 2 |
| 15 | 1.753 | 2.131 | 120 | 1.658 | 1.98 |
| 16 | 1.746 | 2.12 | 400 | 1.649 | 1.966 |
| 17 | 1.74 | 2.11 | Infinite | 1.645 | 1.96 |
| 18 | 1.734 | 2.101 | | | |

| | | | | |
|--|----|--------------------------|-------|-----|
| (df) high value(Z) | 40 | is (B) | 1.684 | 95% |
| (df) low value(Y) | 30 | is (A) | 1.697 | 95% |
| Desired value(df) (X) | 31 | is calculated as follow: | | |
| $\text{EXP}[(\text{Ln}(\text{B}) - \text{Ln}(\text{A})) + (\text{Z} - \text{Y})] \times (\text{X} - \text{Y}) + \text{Ln}(\text{A})$ | | | | |
| The (df) value for (X) | 31 | 1.696 | 95% | |

PERFORMED BY: Clayton Powell DATE: 4-8-97
REVIEWED BY: W-a. Rogers DATE: 4-8-97

CIMARRON CORPORATION
CIMARRON FACILITY
PHASE II, SUB AREA "J"
UNAFFECTED AREA

DATE: 02/27/97

| N # | GRID NUMBER | 3" DETECT C.P.M. | MICRO R' SURF | MICRO R' 1 METER | 0-6" Sample | |
|--------|----------------|------------------------|---------------------|------------------------|-------------|----------|
| | | | | | Total-U | Th (Nat) |
| 1 | 90W-80S | 9310 | 11 | 10 | 7.6 | 1.7 |
| 2 | 110W-80S | 14800 | 9 | 8 | 8.9 | 1.9 |
| 3 | 130W-20S | 9104 | 9 | 9 | 5.6 | 1.6 |
| 4 | 130W-20S | 9104 | 9 | 9 | 7.3 | 1.4 |
| 5 | 140W-20S | 8050 | 10 | 9 | 6.4 | 1.5 |
| 6 | 180W-0N | 7820 | 8 | 8 | 7.7 | 1.0 |
| 7 | 180W-50N | 7210 | 9 | 8 | 7.8 | 1.2 |
| 8 | 180W-50N | 7210 | 9 | 8 | 8.4 | 1.1 |
| 9 | 190W-20S | 5506 | 7 | 6 | 6.4 | 1.3 |
| 10 | 190W-20N | 6560 | 7 | 7 | 7.4 | 1.2 |
| 11 | 200W-130N | 7460 | 8 | 8 | 5.1 | 1.2 |
| 12 | 220W-210N | 8238 | 8 | 8 | 7.3 | 1.9 |
| 13 | 230W-50N | 7420 | 7 | 7 | 5.8 | 1.4 |
| 14 | 240W-30N | 8460 | 9 | 8 | 6.6 | 1.8 |
| 15 | 250W-210N | 8834 | 8 | 8 | 6.9 | 0.9 |
| 16 | 270W-210N | 6558 | 7 | 7 | 5.5 | 1.3 |
| 17 | 280W-180N | 7238 | 8 | 7 | 7.7 | 1.3 |
| 18 | 280W-70S | 6198 | 7 | 7 | 5.9 | 0.9 |

| INSTRUMENTS: | RESULTS IN: | BACKGROUND | MDA |
|--|-------------|------------|------|
| DLUM MICRO 'R' METER - MODEL 19 - S/N 111299 | µR/hr | 7-10 | 7 |
| DLUM 2221, UNSHIELDED 3" X 1/2" NaI DETECTOR S/N 97264 | CPM | 7238 | N/A |
| | | Total U | 4 |
| | | Th(Nat) | 1.5 |
| CIMARRON SOIL COUNTER 4" X 4" X 16" NaI DETECTOR | pCi/g | | 0.25 |

BACKGROUND NOT SUBTRACTED

REVIEWED BY: W.A. Rogers

DATE: 3-3-97

FILE: AJUASURF