UNC MINING AND MILLING

Division of United Nuclear Corporation
A UNC RESOURCES Company

P.O. Box 3951
Albuquerque, New Mexico 87190

4801 Indian School Road, N.E.
Albuquerque, New Mexico 87110

Telephone 505/265-4421

February 19, 1980

Mr. Cubia Clayton
Bureau Chief
NM ENVIRONMENTAL IMPROVEMENT DIVISION
P.O. Box 968
Santa Fe, New Mexico 87503

RE: NECR TAILINGS IMPOUNDMENT -- WEEKLY REPORT
February 10 - February 16, 1980

Dear Mr. Clayton:

To ensure compliance with NMEID letters dated October 23 and 31, 1979, and the NRC Order dated October 26, 1979, the following documents are forwarded for the week of operations from February 10th through February 16th, 1980.

1. Sergent, Hauskins & Beckwith weekly report to the New Mexico State Engineer.

2. Summary sheet of the freeboard levels in the northern and southern cells and the borrow pit areas.

3. Analysis of water samples from monitoring wells 201, 202, 204, and 205.

4. Daily inspection sheets for starter dam, north and south cross dikes.

5. Evaporation and precipitation readings.

6. Aerial photograph of the tailings impoundment taken on February 13, 1980.

Sincerely,

Thomas M. Hill
Director, Tailings Management

THM:jb

cc: Mr. Ross Scarano, NRC
Mr. G. Wayne Kerr, NRC
Dr. John Nelson

SERGENT, HAUSKINS & BECKWITH CONSULTING SOIL AND FOUNDATION ENGINEERS

APPLIED SOIL MECHANICS • ENGINEERING GEOLOGY • MATERIALS ENGINEERING

B. DWAINE SERGENT, P.E. JOHN B. HAUSKINS, P.E. GEORGE H. BECKWITH, P.E. ROBERT D. BOOTH, P.E.
BENNY E. MCMILLAN, P.E. DALE V. BEDENKOP, P.E. ROBERT R. KOONS, P.E. ROBERT W. CROSSLEY, P.E.
NORMAN H. WETZ, P.E.

February 19, 1980

State of New Mexico
Natural Resources Department
Water Resources Division
Bataan Memorial Building
Santa Fe, New Mexico 87503

SHB Job No. E79-1096

Attention: Mr. S. E. Reynolds
State Engineer

Re: Church Rock Tailings Dam
Church Rock, New Mexico

Gentlemen:

Transmitted herewith are (1) liquid surface elevations of the north, central and southern cells as well as the borrow pit, (2) readings on the piezometers installed in the northern and southern cross dikes, (3) horizontal and vertical measurements on the survey monuments installed in the northern and southern cross dikes and the starter dam, and (4) readings on the Hall Hydrostatic Pressure Cell Piezometers (HPC-7's) installed on the downstream side of the existing starter dam. These data are for the week ending February 16, 1980.

Should you have any questions, please do not hesitate to contact us.

Respectfully submitted,
Sergent, Hauskins & Beckwith, Engineers

ROBERT D. BOOTH NEW MEXICO 5711 REGISTERED PROFESSIONAL ENGINEER

By Robert D. Booth
Robert D. Booth, P.E.

Copies: Addressee (1)
United Nuclear Corporation (1)

REPLY TO: 2821 GIRARD BLVD., N.E., ALBUQUERQUE, NEW MEXICO 87107

PHOENIX (602) 272-6848 ALBUQUERQUE (505) 345-8606 SANTA FE (505) 471-7836

POND LIQUID SURFACE ELEVATIONS

DATE	NORTH POND	CENTRAL POND	SOUTHERN POND	BORROW PIT
09/06/79	6956.4	6954.4	6953.4	---
09/13/79	---	---	6953.1	---
09/20/79	6955.8	6954.0	6952.7	---
09/24/79	6955.6	6954.0	6952.7	---
10/01/79	6955.3	6953.7	6952.5	---
10/08/79	---	---	6952.2	---
10/11/79	6955.0	6954.6	6952.2	---
10/17/79	6954.6	6953.4	6951.9	---
10/21/79	6954.6	6953.1	6951.8	---
10/23/79	6954.6	6953.9	6951.3	---
10/24/79	6954.6	6953.5	6951.5	---
10/25/79	6954.7	6953.4	6951.4	---
10/26/79	6954.7	6953.8	6951.7	---
10/27/79	6954.6	6955.0	6951.6	---
10/28/79	6954.6	6954.0	6951.6	---
10/29/79	6954.6	6954.3	6951.6	---
10/30/79	6954.5	6954.4	6951.7	6939.2
10/31/79	6954.5	6954.8	6951.6	6939.6
11/01/79	6954.5	6954.7	6951.6	6939.9
11/02/79	6954.5	6955.2	6951.6	6940.5
11/03/79	6954.4	6955.5	6951.5	6940.7
11/04/79	6954.4	6955.6	6951.5	6941.9
11/05/79	6954.4	6955.9	6951.6	6942.6
11/06/79	6954.3	6956.8	6951.5	6942.1
11/07/79	6954.3	6956.1	6951.5	6942.5
11/08/79	6954.5	6956.3	6951.6	6943.3
11/09/79	6954.4	6956.3	6951.6	6943.6
11/10/79	6954.5	6956.3	6951.6	6943.6

SERGENT, HAUSKINS & BECKWITH

CONSULTING SOIL AND FOUNDATION ENGINEERS
PHOENIX • ALBUQUERQUE • DENVER

POND LIQUID SURFACE ELEVATIONS

DATE	NORTH POND	CENTRAL POND	SOUTHERN POND	BORROW PIT
11/11/79	6954.5	6956.4	6951.6	6943.5
11/12/79	6954.4	6956.3	6951.6	6943.1
11/13/79	6954.3	6956.3	6951.6	6943.1
11/14/79	6954.3	6956.8	6951.1	6942.9
11/15/79	6954.3	6957.3	6951.1	6943.2
11/16/79	6954.3	6956.3	6951.0	6943.4
11/17/79	6954.3	6956.6	6951.1	6943.7
11/18/79	6954.3	6956.5	6951.2	6943.9
11/19/79	6954.3	6956.0	6951.2	6944.4
11/20/79	6954.2	6956.1	6951.2	6944.5
11/21/79	6954.2	6957.4	6951.1	6944.8
11/22/79	6954.2	6957.5	6951.1	6945.2
11/23/79	6954.2	6956.8	6951.1	6945.6
11/24/79	6954.1	6957.9	6951.1	6945.7
11/25/79	6954.1	6956.6	6951.1	6945.8
11/26/79	6954.1	6957.1	6950.8	6946.0
11/27/79	6954.1	6958.0	6950.8	6946.1
11/28/79	6954.0	6956.5	6950.8	6946.5
11/29/79	6954.0	6956.7	6950.8	6946.6
11/30/79	6954.0	6956.4	6950.8	6947.0
12/01/79	6954.1	6956.5	6950.8	6947.2
12/02/79	6954.2	6956.8	6950.8	6947.4
12/03/79	6954.0	6956.0	6950.8	6947.6
12/04/79	6954.0	6955.6	6950.8	6947.7
12/05/79	6954.5	6957.4	6950.8	6948.1
12/06/79	6954.5	6956.8	6950.7	6948.4
12/07/79	6954.4	6956.8	6950.7	6948.6
12/08/79	6954.4	6956.9	6950.7	6949.0

POND LIQUID SURFACE ELEVATIONS

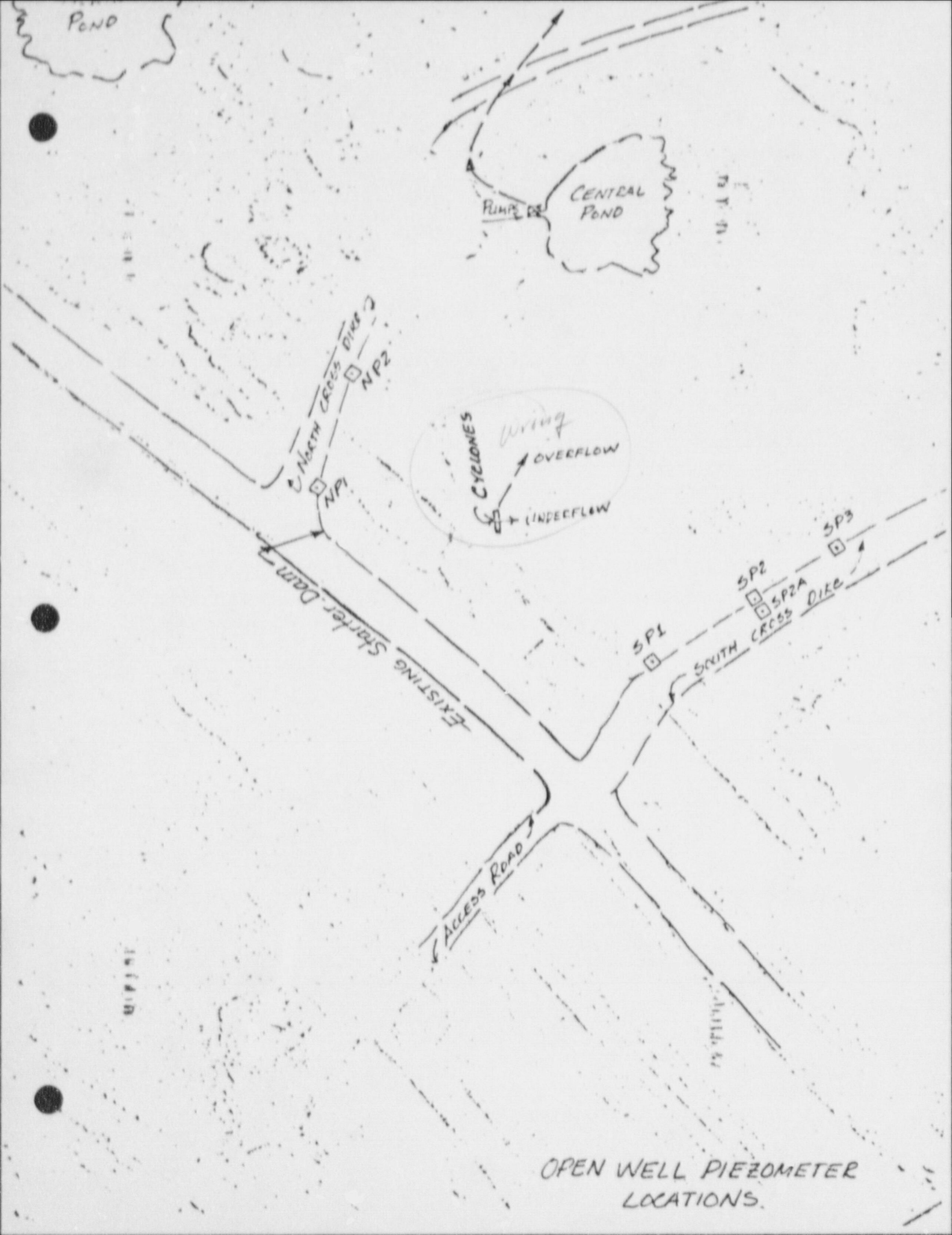
DATE	NORTH POND	CENTRAL POND	SOUTHERN POND	BORROW PIT
12/09/79	6954.4	6956.6	6950.7	6949.2
12/10/79	6954.4	6957.2	6950.8	6949.4
12/11/79	6954.4	6957.2	6950.8	6949.4
12/12/79	6954.4	6957.3	6950.8	6949.6
12/13/79	6954.3	6957.2	6950.8	6950.0
12/14/79	6954.3	6956.9	6950.8	6950.1
12/15/79	6954.3	6956.9	6950.8	6950.3
12/16/79	6954.2	6956.8	6950.7	6950.8
12/17/79	6954.1	6957.2	6950.8	6951.0
12/18/79	6954.1	6957.3	6950.7	6951.1
12/19/79	6954.1	6957.3	6950.7	6951.4
12/20/79	6954.1	6957.5	6950.7	6951.6
12/21/79	6954.1	6958.0	6950.7	6951.9
12/22/79	6954.1	6957.8	6950.7	6952.1
12/23/79	6954.2	6956.8	6950.9	6952.6
12/24/79	6954.2	6956.7	6950.8	6952.7
12/25/79	6954.2	6956.9	6951.4	6953.0
12/26/79	6954.1	6956.9	6951.3	6953.4
12/27/79	6954.0	6957.0	6950.8	6953.8
12/28/79	6954.0	6957.4	6950.8	6954.0
12/29/79	6954.0	6957.4	6950.8	6954.3
12/30/79	6954.0	6957.5	6950.8	6954.5
12/31/79	6954.0	6957.6	6950.8	6954.8
1/01/80	6954.0	6958.0	6950.8	6955.0
1/02/80	6954.0	6958.9	6950.8	6955.2
1/03/80	6954.0	6958.3	6950.8	6955.4
1/04/80	6954.0	6957.8	6950.8	6955.9
1/05/80	6954.0	6957.8	6950.8	6956.2

POND LIQUID SURFACE ELEVATIONS

DATE	NORTH POND	CENTRAL POND	SOUTH POND	B. PIT #1	B. PIT #2
1/06/80	6954.0	6957.6	6950.7	6956.5	--
1/07/80	6953.9	6957.8	6950.5	6956.7	--
1/08/80	6953.9	6957.7	6950.4	6956.8	--
1/09/80	6953.9	6957.8	6050.4	6957.3	--
1/10/80	6953.9	6958.0	6950.4	6957.3	--
1/11/80	6953.9	6961.2	6950.4	6957.4	--
1/12/80	6953.9	6958.8	6950.4	6957.4	--
1/13/80	6953.9	6957.8	6950.4	6957.4	--
1/14/80	6953.8	6957.8	6950.3	6957.5	--
1/15/80	6953.8	6956.8	6950.3	6957.7	--
1/16/80	6953.8	6957.0	6050.3	6957.8	--
1/17/80	6953.7	6956.9	6950.3	6958.0	--
1/18/80	6953.7	6957.0	6950.3	6958.2	--
1/19/80	6953.7	6958.7	6950.3	6958.3	--
1/20/80	6953.7	6957.4	6950.3	6958.5	--
1/21/80	6953.8	6956.8	6950.3	6958.8	--
1/22/80	6953.8	6958.2	6950.3	6958.9	--
1/23/80	6953.8	6957.8	6950.2	6958.9	6934.5
1/24/80	6953.8	6956.5	6950.2	6958.9	6935.1
1/25/80	6953.8	6956.8	6950.2	6958.9	6936.1
1/26/80	6953.8	6956.7	6950.2	6958.9	6936.8
1/27/80	6953.8	6956.7	6950.2	6958.8	6938.3
1/28/80	6953.8	6956.4	6950.2	6958.9	6939.0
1/29/80	6953.8	6956.6	6950.2	6958.9	6939.8
1/30/80	6953.8	6956.8	6950.2	6958.8	6941.8
1/31/80	6953.8	6956.6	6950.2	6958.8	6942.8
2/01/80	6953.8	6956.6	6950.2	6958.8	6943.8
2/02/80	6953.8	6956.8	6950.2	6958.8	6944.4
2/03/80	6953.7	6957.1	6950.2	6958.8	6944.7
2/04/80	6953.7	6955.9	6950.2	6958.8	6945.0
2/05/80	6953.7	6955.9	6950.2	6958.9	6946.0

POND LIQUID SURFACE ELEVATIONS

DATE	NORTH POND	CENTRAL POND	SOUTH POND	B. PIT #1	B. PIT #2
2/06/80	6953.6	6955.8	6950.2	6958.8	6947.2
2/07/80	6953.6	6956.0	6950.1	6958.9	6947.6
2/08/80	6953.6	6957.0	6950.1	6958.9	6948.5
2/09/80	6953.6	6957.0	6950.1	6958.9	6949.0
2/10/80	--	6957.0	--	6958.9	6949.5
2/11/80	--	6958.0	--	6958.9	6949.8
2/12/80	6953.5	6958.0	6950.0	6958.9	6950.0
2/13/80	--	6957.7	--	6958.9	6950.2
2/14/80	--	6957.7	--	6958.9	6950.4
2/15/80	--	6957.9	--	6958.9	6950.8
2/16/80	--	6957.0	--	6958.9	6951.2



OPEN WELL PIEZOMETER LOCATIONS.

OPEN WELL PIEZOMETER ELEVATIONS*

SP-1	SP-2	SP-3	NP-1	NP-2
6972.46	6969.67	6969.38	6968.33	6971.44

* Top of piezometer

OPEN WELL PIEZOMETER READINGS*

DATE	SP-1	SP-2	SP-3	NP-1	NP-2
11/19/79	6956.7	6958.3	6959.5	6951.8	6950.6
11/20/79	6956.7	6958.3	6959.5	6951.8	6950.6
11/21/79	6956.7	6958.3	6959.5	6951.8	6950.6
11/26/79	6957.0	6958.3	6958.5	6951.8	6952.6
11/27/79	6956.9	6958.[illegible]	6958.5	6951.8	6952.6
11/28/79	6956.0	6958.[illegible]	6958.5	6951.8	6952.8
11/29/79	6956.0	6958.1	6958.5	6951.8	6952.8
11/30/79	6956.0	6958.0	6958.5	6951.8	6952.8
12/03/79	6956.8	6958.4	6958.7	6951.8	6953.7
12/04/79	6956.8	6958.4	6958.7	6951.8	6953.7
12/05/79	6956.8	6958.4	6958.5	6951.8	6954.5
12/06/79	6956.8	6958.4	6958.5	6951.8	6954.5
12/07/79	6956.8	6958.4	6958.5	6951.8	6954.5
12/10/79	6956.8	6958.4	6958.5	6951.8	6953.7
12/11/79	6956.8	6958.4	6958.5	6951.8	6953.7
12/12/79	6956.8	6958.4	6958.5	6951.8	6953.7
12/13/79	6956.8	6957.8	6958.5	6951.8	6954.5
12/14/79	6956.8	6957.8	6958.5	6951.8	6954.5
12/15/79	6956.8	6957.8	6958.5	6951.8	6954.5
12/17/79	6957.0	6958.5	6958.5	6951.8	6954.5
12/18/79	6957.0	6958.5	6958.5	6951.8	6954.5
12/19/79	6957.0	6958.5	6958.5	6951.8	6954.5
12/20/79	6957.3	6959.0	6958.5	6951.8	6954.5
12/21/79	6957.3	6959.0	6958.5	6951.8	6954.5
12/26/79	6957.3	6958.6	6958.6	6952.0	6954.8
12/28/79	6957.0	6958.8	6958.5	6952.0	6955.0
1/03/80	6957.7	6959.5	6959.2	6952.8	6954.8
1/05/80	6957.7	6959.5	6959.2	6952.8	6954.8

*Elevation of liquid surface

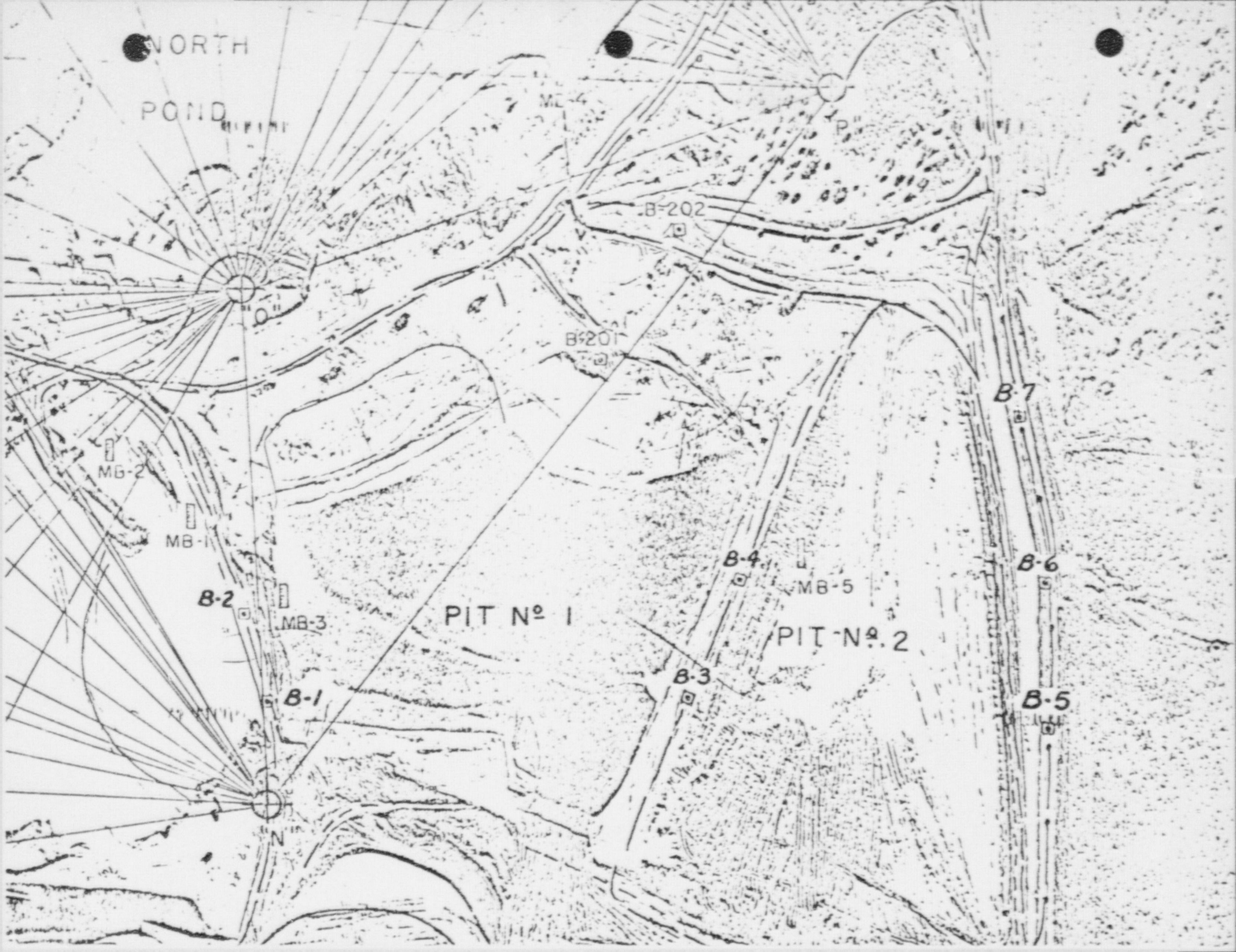
SERGENT, HAUSKINS & BECKWITH

CONSULTING SOIL AND FOUNDATION ENGINEERS
PHOENIX • ALBUQUERQUE • SANTA FE

OPEN WELL PIEZOMETER READINGS*

DATE	SP-1	SP-2	SP-3	NP-1	NP-2
1/08/80	6957.7	6959.5	6959.5	6952.6	6954.2
1/10/80	6958.0	6959.5	6959.3	6952.6	6954.2
1/14/80	6958.0	6959.5	6958.8	6952.6	6953.9
1/16/80	6958.0	6959.5	6958.8	6952.6	6953.9
1/21/80	6958.0	6959.3	6958.8	6952.6	6954.2
1/23/80	6958.0	6959.0	6958.8	6952.5	6954.2
1/28/80	6958.2	6959.3	6958.9	6952.8	6954.4
1/30/80	6958.2	6959.3	6958.9	6952.6	6954.4
2/05/80	6957.9	6959.0	6958.5	6952.6	6954.4
2/07/80	6957.9	6959.0	6958.5	6952.6	6954.4
2/12/80	6957.8	6958.7	6958.8	6952.8	6953.9
2/14/80	6958.0	6958.7	6958.8	6952.6	6954.3

*Elevation of liquid surface


NORTH
POND
B-202
B-201
B-7
MB-2
MB-1
B-4
MB-5
B-6
B-2
MB-3
PIT Nº 1
PIT Nº 2
B-3
B-1
B-5

OPEN WELL PIEZOMETER READINGS

BORROW PIT AREA

DATE	B-1	B-2	B-3	B-4	B-5	B-6	B-7
2/05/80	6945.9	6936.1	6932.7	6940.3	6894.3	6947.6	Dry
2/12/80	6945.2	6938.5	6932.3	6939.9	6894.1	6943.1	Dry
2/14/80	6945.2	6939.3	6933.5	6940.0	6894.3	6943.1	Dry

Scanlon & associates, inc.

engineers and planners

to: S H & B

Sergent, Hauskins & Beckwith

2821 Girard Blvd. N.E. 87107

attention: BOB BOOTH

transmittal

date: 2-18-80 job number: 79064

job: UNC Monitor Runs

we are sending: check only for:

___	prints	___	your use
___	sepia	___	your approval
___	tracing	___	your records/file
___	specification	X	review and comment
___	shop drawing	___	revision and correction
X	studies/reports	___	in response to your request
___		___	

action taken: During the week of 2-11-80 we finished building concrete Instrument Stations at Monitor Run Control points "A", "O", "P". This has resulted in a noticeable difference in Control Distances between these stations due to the Reflectors now being mounted on top of the Stations instead of ground level, as before. This should not affect distances to monitor points. We wish to call your attention to a correction in the Base Reference Distance from Station "A" to S-5 from 2061.637 to 2061.726 and the Resultant change in the Relative change sheets. We wish to call your attention to the apparent sinking of Station B-2, and the apparent movement between Station "A" and 5-3, and Station "P" and N-16.

thank you W. D. Houston

Santa Fe, New Mexico 87501 1302 Osage Avenue Telephone (505) 983-3324
Albuquerque, New Mexico 87110 7911 Mountain Road NE Telephone (505) 265-6941

Scanlon & associates, inc.

engineers and planners

79064

February 18, 1980

United Nuclear Corporation
Real Estate and Facilities Division
4801 Indian School Road
Albuquerque, New Mexico 87108

ATTN: Robert G. Patterson

Gentlemen:

Enclosed herein are the most recent results of the monitoring survey for the tailings dam at United Nuclear Corporation's Church Rock Mill site. This data contains results from Monitoring run number 20. The tabulated data provides slope distance and vertical measurements to 29 monitoring stations placed on the existing tailings dam and cross dikes. Distances are taken from five primary control monuments in the dam vicinity. Section A of this report contains a tabulation of slope distances measured by field survey, Section B contains a tabulation of relative distance change from the base reference at run number 2, Section C contains a tabulation of elevation data, and Section D contains a listing of coordinates and elevations of the control stations and bench marks, and a listing of coordinates and elevations of the monitor stations computed from data obtained during run number 1.

Elevations contained herein are based on spirit level measurements from known bench marks. Accuracy of elevations is plus or minus three hundredths (±0.03) of a foot. Distances shown herein are taken from electronic distance meter measurements. Run numbers 1 and 3 have distance accuracies of plus or minus four hundredths (±0.04) of a foot. All other runs have distance accuracies of plus or minus three hundredths (±0.03) of a foot.

The monitoring survey is set up to allow for periodic remeasurement of distance and elevation data. A remeasurement cycle can be completed in approximatley three (3) days. We believe that the monitoring survey will be sufficient to measure any movement of the dam.

Sincerely,

SCANLON & ASSOCIATES, INC.

Clifford E. Anderson
New Mexico P.E. & L.S. #6472

CC: Sergent, Hauskins & Beckwith
U.N.C. Church Rock Mill

PLEASE REPLY TO
SANTA FE, NEW MEXICO 87502 — 1002 OSAGE AVENUE — TELEPHONE: (505) 983-3323
ALBUQUERQUE, NEW MEXICO 87110 — 8008 PENNSYLVANIA CIRCLE NE — TELEPHONE: (505) 265-6941
ARTESIA, NEW MEXICO 88210 — 510 WEST TEXAS — TELEPHONE: (505) 748-1010
FARMINGTON, NEW MEXICO 87401 — 1405 SCHOFIELD LANE — TELEPHONE: (505) 327-1023

Control Stations

Bench Marks

Monitor Stations

Indicator Boards

U.N.C. TAILINGS DAM

CHURCH ROCK

DECEMBER-1979

Scale: 1" = 555' ±

Job No. 79064

SECTION A

Slope Distances

8008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

INSTRUMENT STATION "A"

RUN NO.	1	2	3	4	5	6	7
INSTRUMENT	HP-3805	HP-3808		HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	8-16-79	9-18-79	10-20-79	10-27-79	11-1-79	11-6-79	11-13-79
TIME	2:35 P.M.	10:30 AM		4:30 P.M.	5:10 P.M.	10:45 A.M.	11:15 AM
H.M.	4.99'	4.35'		4.35'	4.36'	4:36'	4.36'
WEATHER	P.Cldy 0-5	Clr.,0-10			Clr. 0-5	Clr. 0-3	Clr. 0-3
TEMP. °F		66° -			40°	56°	47°
PRESS.	7025.10	7000		7025.10	7025.10	7025.10	7025.10
CORR.					57 ppm	65 ppm	59 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
	*	4012.272	*	4012.270	4012.281	4012.298	4012.262
S8	1491.49	1491.480	*	1491.501	1491.503	1491.514	1491.498
S9	1308.09	1308.081	*	1308.099	1308.123	1308.115	1308.093
S10	1130.16	1130.135	*	1130.150	1130.177	1130.163	1130.153
S11	960.68	960.648	*	960.666	960.694	960.680	960.679
S12	807.59	807.554	*	807.579	807.563	807.588	807.578
"M"	*	2096.941	*	2096.940	2096.927	2096.945	2096.951

* NO MEASUREMENT REQUIRED

8008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "A"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2	8	9	10	11	12	13
INSTRUMENT	HP-3808	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	9-18-79	11-20-79	11-27-79	12-4-79	12-11-79	12-17-79	12-20-79
TIME	10:30 AM	8:30 AM	8:10 AM	8:45 AM	4:10 PM	3:10 PM	4:00 PM
H.M.	4.35'	4.36'	4.36'	4.36'	4.36'	4.36'	4.36'
WEATHER	Clr., 0-10	Cldy, SN20-30	Cldy, Windy	Clr, Clm.	Cldy, Cool	Clr, Clm.	Cldy, Brzy
TEMP. °F	66°	22°	32°	35°	42°	52°	48°
PRESS.	7000	7025.10	7025.10	7025.10	7025.10	7025.10	7025.10
CORR.		50 ppm	52 ppm	55 ppm	57 ppm	1 ppm	60 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"O"	4012.272	4012.291	4012.307	4012.292	4012.270	4012.281	4012.279
S8	1491.480	1491.500	1491.502	1491.509	1491.499	1491.494	1491.503
S9	1308.081	1308.122	1308.107	1308.137	1308.101	1308.111	1308.098
S10	1130.135	1130.160	1130.154	1130.179	1130.152	1130.156	1130.149
S11	960.648	960.688	960.666	960.677	960.664	960.673	960.697
S12	807.554	807.593	807.572	807.575	807.563	807.575	807.574
"M"	2096.941	2096.937	2096.921	2096.941	2096.920	2096.934	2096.919

8000 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

PAGE 3 OF 20
CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

INSTRUMENT STATION "A"

RUN NO.	2 (18)	14	15	16	17	18	19
INSTRUMENT		HP-3808A	HP-3808A	HP-3808A	HP-3820A	HP-3820A	HP-3820A
DATE	9-18-79	1-2-80	1-8-80	1-15-80	1-21-80	1-30-80	2-5-80
TIME		1:45 PM	1:30 PM	11:50 AM	4:00 PM	2:00 PM	8:15 AM
H.M.		4.36'	4.36'	4.36'	4.36'	4.36'	4.36'
WEATHER		Cldy,Cld.0-5	Cldy,Cld0-10	Cldy,0-10	Clr,Cld,5-10	Cldy, 0-5	Clr, Clm.
TEMP.		36°	35°	44°	34°	38°	30°
PRESS.		7025.10	7025.10	7025.10	7025.10(23.[illegible])	7025.10(23.30)	23.43
CORR.		55 ppm	55 ppm	58 ppm	52 ppm	53 ppm	47 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"O"	4012.272	4012.305	4012.285	4012.287	4012.264	4012.259	4012.257
S1	(2718.420)					2718.420	2718.452
S2	(2623.197)					2623.197	2623.217
S3	(2431.743)					2431.743	2431.769
S4	(2244.637)					2244.637	2244.655
S5	(2061.726)					2061.726	2061.738
S6	(1867.090)					1867.090	1867.088
S7	(1677.429)					1677.429	1677.438
S8	1491.480	1491.505	1491.512	1491.509	1491.490	1491.473	1491.478
S9	1308.081	1308.147	1308.138	1308.121	1308.110	1308.101	1308.099
S10	1130.135	1130.180	1130.177	1130.162	1130.156	1130.134	1130.137
S11	960.648	960.695	960.685	960.673	960.659	960.648	960.650
S12	807.554	807.584	807.589	807.583	807.572	807.566	807.570
S13	(736.948)					736.948	736.961
S14	(653.854)					653.854	653.864
"M"	2096.941	2096.953	2096.923	2096.928	2096.931	2096.912	2096.918

NOTE: SLOPE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

8000 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "A"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2 (18)	20					
INSTRUMENT	HP-3808A	HP-3820A					
DATE	9-18-79	2-14-80					
TIME	10:30 AM	2:00 PM					
H.M.	4.35'	7029.46					
WEATHER	Clr 0-10	Cldy 10-20					
TEMP.	66°	44°					
PRESS.	7000	23.1					
CORR.		58ppm					
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"O"	4012.272	4012.210					
S1	(2718.420)	2718.440					
S2	(2623.197)	2623.237					
S3	(2431.743)	2431.728					
S4	(2244.637)	2244.668					
S5	(2061.726)	2061.732					
S6	(1867.090)	1367.081					
S7	(1677.429)	1677.433					
S8	1491.480	1491.469					
S9	1308.081	1308.093					
S10	1130.135	1130.134					
S11	960.648	960.659					
S12	807.554	807.577					
S13	(736.948)	736.956					
S14	(653.854)	653.863					
"M"	2096.941	209[illegible]05					

NOTE: SLOPE DISTANCES SHOWN IN PARENTHESES ARE FROM RUN 5[illegible]

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "M"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	1	2	3	4	5	6	7
INSTRUMENT	HP-3805	HP-3808		HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	8-16-79	9-18-79	10-20-79	10-27-79	11-2-79	11-6-79	11-13-79
TIME	4:00 P.M.	12:00 P.M.		3:30 P.M.	2:30 P.M.	11:30 A.M.	12:01 P.M.
H.M.	5.42'	4.63'		4.63'	4.63'	4.63'	4.63'
WEATHER	P.Cldy.5-15	Clr.Wm.0-10				Clr. 0-3	Clr. 0-5
TEMP. °F		72°			48°	60°	45°
PRESS.	6990.72	6900'		6990.72	6990.72	6990.72	6990.72
CORR.		68ppm			60 ppm	65 ppm	59 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"O"	*	*	*	2054.627	2054.650	2054.641	2054.640
":"	*	2150.228	*	MONITOR STA. "I"		HAS BEEN	LOST
S8	1353.27	1353.278	*	1353.298	1353.309	1353.317	1353.311
S9	1453.46	1453.494	*	1453.527	1453.527	1453.526	1453.536
S10	1571.90	1571.923	*	1571.943	1571.933	1571.946	1571.938
S11	1706.91	1706.932	*	1706.945	1706.942	1706.944	1706.958
S12	1853.37	1853.415	*	1853.465	1853.481	1853.495	1853.498
"A"	*	2096.810	*	2096.816	2096.807	2096.812	2096.801

* NO MEASUREMEN. REQUIRED

1008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "M"

PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2	8	9	10	11	12	13
INSTRUMENT	HP-3808	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	9-18-79	11-19-79	11-26-79	12-4-79	12-10-79	12-17-79	12-20-79
TIME	12:00 PM	4:30 PM	1:00 PM	9:15 AM	2:30 PM	3:45 PM	4:35 PM
H.M.	4.63'	4.63'	4.63'	4.63'	4.63'	4.63'	4.63'
WEATHER	Clr.WM.0-10	Cldv,SN10-15	Clr, Windy	Clr, Clm.	Clr.,Cl 5-15	Clr,Clm 0-3	Cldy, Clm
TEMP. °F	72°	38°	52°	40°	56°	50°	45°
PRESS.	6900'	6990.72	6990.72	6990.72	6990.72	6990.72	6990.72
CORR.	68 ppm	56 ppm	62 ppm	57 ppm	63 ppm	60ppm	58 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"O"	2054.627#4	2054.624	2054.619	2054.622	2054.628	2054.627	2054.626
S8	1353.278	1353.309	1353.314	1353.328	1353.304	1353.313	1353.301
S9	1453.494	1453.517	1453.526	1453.530	1453.530	1453.539	1453.523
S10	1571.923	1571.911	1571.927	1571.929	1571.930	1571.925	1571.918
S11	1706.932	1706.932	1706.941	1706.953	1706.949	1706.945	1706.957
S12	1853.415	1853.484	1853.491	1853.521	1853.490	1853.514	1853.485
"A"	2096.810	2096.788	2096.801	2096.777	2096.789	2096.793	2096.784

8008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

INSTRUMENT STATION "M"

RUN NO.	2 (18)	14	15	16	17	18	19
INSTRUMENT		HP-3808A	HP-3808A	HP-3808A	HP-3820A	HP-3820A	HP-3820A
DATE	9-18-78	1-2-80	1-8-80	1-15-80	1-22-80	1-30-80	2-5-80
TIME		3:20 PM	2:50 PM	1:00 PM	4:15 PM	11:30 AM	10:00 AM
H.M.		4.63'	4.63'	4.63'	4.63'	4.63'	4.63'
WEATHER		Cldy,Cld,0-5	Cldy,Cld 0-5	Cldy, 5-10	Clr,Calm	Cldy, 5-10	Clr, Clm
TEMP.		30°	35°	40°	38°	36°	36°
PRESS.		6990.72	6990.72	6990.72	6990.72	6990.72(2330)	23.48
CORR.		52 ppm	54 ppm	57 ppm	53 ppm	52 ppm	51 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"O"	2054.627(4)	2054.616	2054.637	2054.606	2054.641	2054.627	2054.629
S1	(132".378)					1322.378	1322.374
S2	(1283.611)					1283.611	1283.597
S3	(1227.335)					1227.335	1227.314
S4	(1202.218)					1202.218	1202.197
S5	(1210.775)					1210.775	1210.774
S6	(1226.372)					1226.372	1226.355
S7	(1275.581)					1275.581	1275.562
S8	1353.278	1353.296	1353.320	1353.324	1353.310	1353.301	1353.298
S9	1453.494	1453.514	1453.540	1453.544	1453.538	1453.524	1453.532
S10	1571.923	1571.926	1571.931	1571.932	1571.921	1571.902	1571.921
S11	1706.932	1706.922	1706.948	1706.946	1706.939	1706.924	1706.941
S12	1853.415	1853.520	1853.534	1853.549	1853.540	1853.539	1853.538
S13	(1929.882)					1929.882	1929.868
S14	(1990.486)					1990.486	1990.499
"A"	2096.8110	2096.786	2096.786	2096.793	2096.809	2096.778	2096.787

NOTE: SLOPE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

INSTRUMENT STATION "M"

RUN NO.	2 (18)	20					
INSTRUMENT	HP-3808A	HP-3820A					
DATE	9-18-79	2-14-80					
TIME	12:00 PM	11:30 AM					
H.M.	4.63'	4.63'					
WEATHER	Clr Wm 0-10	Cldy 10-20					
TEMP.	72°	48°					
PRESS.	6900.00	23.13					
CORR.	68ppm	57ppm					
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"O"	2054.627(4)	2054.636					
S1	(1322.378)	1322.385					
S2	(1283.611)	1283.602					
S3	(1227.335)	1227.323					
S4	(1202.218)	1202.198					
S5	(1210.775)	1210.775					
S6	(1226.372)	1226.356					
S7	(1275.581)	1275.574					
S8	1353.278	1353.304					
S9	1453.494	1453.533					
S10	1571.923	1571.932					
S11	1706.932	1706.941					
S12	1853.415	1853.548					
S13	(1929.882)	1929.851					
S14	(1990.486)	1990.512					
"A"	2096.810	2096.814					

NOTE: SLOPE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18

8008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

INSTRUMENT STATION "N"

RUN NO.	1	2	3	4	5	6	7
INSTRUMENT	HP-3805	HP-3808	HP-3805	HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	8-16-79	9-18-79	10-20-79	10-27-79	11-2-79	11-6-79	11-13-79
TIME	11:00 AM	3:30 PM	11:30 AM	1:00 PM	1:30 P.M.	2:00 P.M.	1:00 P.M.
H.M.	5.33'	4.58'	4.58'	4.58'	4.58'	4.58'	4.58'
WEATHER	Cl,Wm,0-5	Cl,Wm 0-15	Cldy 20-45			Clr. 0-3	Clr. 0-5
TEMP. ° F		78°	57°		48°	60°	48°
PRESS.	6996.27	6960'	6996'	6996.27	6996.27	6996.27	6996.27
CORR.		71 ppm	60 ppm		60 ppm	65 ppm	[illegible] ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIS	SLOPE DIST.
"P"	*	1580.233	1580.202	1580.234	1580.223	1580.217	1580.229
N1	1332.96	1332.966	*	1332.966	1332.978	1332.916	1332.949
N2	1286.52	1286.523	*	1286.520	1286.527	1286.504	1286.508
N3	1281.70	1281.687	*	1281.701	1281.692	1281.667	1281.683
N4	1306.56	1306.565	*	1306.577	1306.572	1306.552	**
N5	1362.64	1362.648	*	1362.658	1362.657	1362.630	1362.647
SD1	1290.10	1290.092	1290.078	1290.086	1290.097	1290.068	1290.076
SD2	1203.63	1203.639	1203.636	1203.649	1203.653	1203.647	1203.636
SD3	1052.72	1052.698	1052.666	1052.635	1052.635	1052.633	1052.633
SD4	933.96	933.958	933.952	933.968	933.966	933.966	933.958
SD5	849.14	849.129	849.094	849.114	849.119	849.119	849.106
ND1	1183.95	1183.925	1183.922	1183.937	1183.944	1183.931	**
ND2	1099.10	1099.086	1099.088	1099.106	1099.096	1099.089	**
ND3	935.91	935.904	935.898	**	935.921	935.909	935.910
"O"	*	933.896	933.892	933.903	933.901	933.903	933.899

* NO MEASUREMENT REQUIRED **TEMPORARY OBSTRUCTION

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

INSTRUMENT STATION "N"

RUN NO.	2	8	9	10	11	12	13
INSTRUMENT	HP-3808	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	9-18-79	11-20-79	11-26-79	12-4-79	12-11-79	12-18-79	12-21-79
TIME	3:30 PM	2:15 PM	4:00 PM	10:00 AM	2:00 PM	8:30 AM	8:30 AM
H.M.	4.58'	4.58'	4.58'	4.58'	4.58'	4.58'	4.58'
WEATHER	Cl,WM, 0-15	Cldy,SN20-30	Clr,Windy	Clr, Clm	Cldy, Cold,10-15	Clr, Clm	Cldy, Clm
TEMP. °F	78°	30°	54°	45°	50°	28°	40°
PRESS.	6960'	6996.27	6996.27	6996.27	6996.27	6996.27	6996.27
CORR.	71 ppm	52 ppm	63 ppm	58 ppm	61 ppm	51 ppm	57 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"P"	1580.233	1580.222	1580.212	1580.208	1580.222	1580.235	1580.220
N1	1332.966	1332.967	1332.967	1332.978	1332.965	1332.962	1332.967
N2	1286.523	*1286.507	1286.511	1286.510	*1286.513	1286.514	1286.519
N3	1281.687	1281.679	**	**	1281.674	1281.680	1281.684
N4	1306.565	**	**	1306.573	1306.551	1306.565	1306.559
N5	1362.648	1362.649	1362.635	1362.655	1362.634	1362.638	1362.634
SD1	1290.092	1290.085	1290.086	1290.081	1290.075	1290.079	1290.080
SD2	1203.639	1203.633	1203.639	1203.636	1203.638	1203.629	1203.624
SD3	1052.698	1052.613	1052.625	1052.582	1052.569	1052.557	1052.560
SD4	933.958	933.953	933.959	933.957	933.954	933.957	933.948
SD5	849.129	849.099	849.114	849.112	849.114	849.106	849.107
ND1	1183.925	1183.929	**	1183.940	1183.938	1183.930	1183.930
ND2	1099.086	1099.082	1099.093	1099.090	**	1099.094	1099.094
ND3	935.904	935.912	935.912	935.920	935.917	935.913	935.919
"O"	933.896	933.911	933.902	933.904	933.904	933.906	933.900

**TEMPORARY OBSTRUCTION. * STATION DISTURBED, MEASUREMENTS CONTINUED.

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "N"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2 (18)	14	15	16	17	18	19
INSTRUMENT	HP-3808	HP-3808A	HP-3808A	HP-3808A	HP-3820A	HP-3820A	HP-3820A
DATE	9-18-79	1-4-80	1-9-80	1-15-80	1-23-80	1-28-80	2-5-80
TIME	3:30 PM	11:45 AM	9:30 AM	2:20 PM	9:40 AM	4:00 PM	2:00 PM
H.M.	4.58'	4.58'	4.58'	4.58'	4.58'	4.58'	4.58'
WEATHER	Clr,Wm,0-15	Cld,Clr	Cldy,Cld 0-5	Cldy, 15-20	Clr, Calm	Cldy-25-30	Clr, Clm
TEMP. °F	78°	38°	28°	40°	28°	34°	52°
PRESS.	6960'	6996.27	6996.27	6996.27	6996.27(23.45)	6996.27(23.00)	23.44
CORR.	71 ppm	56 ppm	51 ppm	56 ppm	47 ppm	55 ppm	57 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"P"	1580.233	1580.237	1580.215	1580.215	1580.221	1580.217	1580.208
N1	1332.966	1332.989	1332.977	1332.977	1332.969	1332.953	1332.966
N2	1286.523	1286.518	1286.516	1286.508	1286.506	1286.498	1286.506
N3	1281.687	**	1281.670	1281.676	1281.673	1281.657	1281.667
N4	1306.565	1306.563	1306.568	1306.553	1306.553	1306.532	1306.546
N5	1362.648	1362.650	1362.645	1362.626	1362.619	1362.603	1362.611
SD1	1290.092	1290.074	1290.088	1290.077	1290.073	1290.045	1290.052
SD2	1203.639	1203.628	1203.635	1203.624	1203.621	1203.612	1203.619
SD3	1052.598	1052.555	1052.567	1052.547	1052.546	1052.542	1052.548
SD4	933.958	933.950	933.964	933.952	933.949	933.941	933.947
SD5	849.129	849.102	849.115	849.102	849.085	849.082	849.082
ND1	1183.925	1183.960	1183.936	1183.926	1183.925	1183.923	1183.925
ND2	1099.086	1099.089	1099.095	1099.088	**	1099.085	1099.072
ND3	935.904	935.920	935.921	935.912	935.917	935.902	935.903
B3	(777.748)				777.703	777.748	777.717
B4	(916.410)				916.385	916.410	916.377
B5	(1354.228)				1354.234	1354.228	1354.216
B6	(1392.403)				1392.412	1392.403	1392.394
B7	(1452.260)				1452.269	1452.260	1452.257
"O"	933.896	933.909	933.914	933.907	933.915	933.902	933.894

Note: SLOPE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18

* NO MEASUREMENT **TEMPORARY OBSTRUCTION

[illegible]
[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "N"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2	20					
INSTRUMENT	HP-3808	HP-3820A					
DATE	9-18-79	2-13-80					
TIME	3:30 PM	12:20 PM					
H.M.	4.58'	4.58'					
WEATHER	Cl, WM, 0-15	0-10					
TEMP. °F	78°	42°					
PRESS.	6960'	23.25					
CORR.	71 ppm	55 ppm					
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"P"	1580.233	1580.322					
N1	1332.966	1332.965					
N2	1286.523	1286.506					
N3	1281.687	1281.660					
N4	1306.565	1306.547					
N5	1362.648	1362.600					
SD1	1290.092	1290.051					
SD2	1203.639	1203.624					
SD3	1052.698	1052.557					
SD4	933.958	933.934					
SD5	849.129	849.080					
ND1	1183.925	1183.916					
ND2	1099.086	1099.082					
ND3	935.904	935.898					
B3	(777.748)	777.738					
B4	(916.410)	916.390					
B5	(1354.228)	1354.217					
B6	(1392.403)	1392.398					
B7	(1452.260)	1452.248					
"O"	933.896	933.924					

* NO MEASUREMENT NOTE: SLOPE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18

8000 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "O"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	1	2	3	4	5	6	7
INSTRUMENT	HP-3805	HP-3808	HP-3805	HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	8-15-79	9-18-79	10-20-79	10-26-79	11-2-79	11-6-79	11-13-79
TIME	8:20 AM	2:30 PM	1:15PM	10:45 AM	9:15 AM	3:30 P.M.	2:00 P.M.
H.M.	5.55'	4.76'	4.76'	4.76'	4.76'	4.76'	4.76'
WEATHER	Rain 0-5	Cl, Wm0-10	Cldy 20-45	Cl., 5-15	Cl., 0-5	Cldy. 5-15	Clr. 0-3
TEMP. ° F	64°	78°	60°	60°	40°	57°	52°
PRESS.	7007.76	6980	7008'	7007.76	7007.76	7007.76	7007.76
CORR.		6980	60 ppm	67 ppm	56 ppm	63 ppm	62 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"N"	934.01	934.011	933.996	934.016	934.009	934.013	934.018
N1	1229.77	1229.761	*	1229.750	1229.755	1229.771	1229.763
N2	1061.80	1061.802	*	1061.801	1061.787	1061.801	1061.801
N3	914.26	914.250	*	914.237	914.252	914.254	914.243
N4	788.76	788.729	*	788.712	788.737	788.732	788.728
N5	700.87	700.835	*	700.842	700.844	700.839	700.835
N6	661.92	661.875	*	661.881	661.891	661.885	661.875
N7	683.22	683.191	*	683.194	683.208	683.204	683.200
N8	757.38	757.347	*	757.345	757.363	757.357	757.352
N9	758.32	758.289	*	758.292	758.302	758.293	758.291
N10	761.83	761.800	*	761.804	761.815	761.806	761.800
N11	817.52	817.498	*	817.502	817.507	817.490	817.493
N12	861.14	861.120	*	861.119	861.121	861.109	861.118
N13	918.35	918.335	*	918.333	918.347	918.326	918.339
N14	977.68	977.672	*	977.678	977.695	977.683	977.682
N15	1032.75	1032.741	*	1032.744	1032.753	1032.745	1032.748
N16	1068.29	1068.282	*	1068.283	1068.287	1068.286	1068.287
SD1	1286.04	1286.044	1286.006	1286.022	1286.014	1286.026	1286.026
SD2	1256.80	1256.808	1256.784	1256.803	1256.793	1256.816	1256.820
SD3	1249.18	1249.167	1249.084	1249.066	1249.072	1249.093	1249.019
SD4	1283.33	1283.270	1283.270	1283.289	1283.275	1283.312	1283.289
SD5	1351.29	1351.283	1351.250	1351.259	1351.269	1351.273	1351.264
ND1	689.03	689.000	688.996	688.993	689.002	689.008	689.004
ND2	598.30	598.257	598.252	598.258	598.266	598.265	598.258
ND3	428.34	428.277	428.276	428.270	428.284	428.288	428.271
"P"	1032.86	1032.911	1032.882	1032.909	1032.907	1032.903	1032.917

* NO MEASUREMENT REQUIRED

8008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "O"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2	8	9	10	11	12	13
INSTRUMENT	HP-3808	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	9-18-79	11-20-79	11-27-79	12-4-79	12-11-79	12-18-79	12-21-79
TIME	2:30 PM	11:00 AM	9:15 AM	11:00 AM	1:00 PM	9:30 AM	9:45 AM
H.M.	4.76'	4.76'	4.76'	4.76'	4.76'	4.76'	4.76'
WEATHER	Cl, Wm 0-10	Cldy, SN 20-30	Cldy, Windy	Clr, Clm	Cldy, Cool, 10-15	Clr, Clm	Cldy, Clm, SN
TEMP. °F	78°	27°	30°	50°	52°	35°	40°
PRESS.	6980	7007.76	7007.76	7007.76	7007.76	7007.76	7007.76
CORR.	6980	50 ppm	51 ppm	61 ppm	61 ppm	55 ppm	57 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST	SLOPE DIST.	SLOPE DIST.
"N"	934.011	934.004	934.019	934.009	934.011	934.006	934.011
N1	1229.761	1229.765	1229.768	1229.750	1229.752	1229.755	1229.757
N2	1061.802	*1061.800	1061.805	1061.789	*1061.795	1061.793	1061.793
N3	914.250	914.256	914.243	914.228	914.218	914.229	914.222
N4	788.729	788.731	788.728	788.715	788.718	788.720	788.722
N5	700.835	700.816	700.824	700.823	700.814	700.821	700.821
N6	661.875	661.863	661.867	661.866	661.852	661.843	661.859
N7	683.191	683.188	683.186	683.183	683.170	683.181	683.189
N8	757.347	757.347	757.341	757.347	757.329	757.329	757.333
N9	758.289	758.287	758.285	758.286	758.284	758.268	758.272
N10	761.800	761.802	761.791	761.810	761.[illegible]1	761.786	761.783
N11	817.498	817.493	817.485	817.492	817.475	817.478	817.479
N12	861.120	861.117	861.110	861.116	861.114	861.109	861.104
N13	918.335	918.340	918.325	**	918.332	918.325	918.327
N14	977.672	977.692	977.673	977.673	977.660	977.672	977.673
N15	1032.741	1032.746	1032.735	1032.748	1032.738	1032.756	1032.731
N16	1068.282	1068.301	1068.266	1068.302	1068.279	1068.297	1068.292
SD1	1286.044	1286.027	1286.014	1286.006	1286.013	1286.010	1286.019
SD2	1256.808	1256.813	1256.800	1256.799	1256.793	1256.792	1256.792
SD3	1249.167	1249.002	1248.986	1248.953	1248.934	1248.934	1248.930
SD4	1283.270	1283.296	1283.284	1283.285	1283.273	1283.277	1283.282
SD5	1351.283	1351.263	1351.264	1351.264	1351.254	1351.253	1351.248
ND1	689.000	689.006	688.995	688.988	688.998	689.000	689.011
ND2	598.257	598.254	598.251	598.244	598.265	598.258	598.264
ND3	428.277	428.268	428.267	428.249	428.261	428.259	428.265
"P"	1032.911	1032.904	1032.906	1032.907	1032.905	1032.905	1032.885

* STATION DISTURBED, MEASUREMENTS CONTINUED.

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

INSTRUMENT STATION "O"

RUN NO.	2 (18)	14	15	16	17	18	19
INSTRUMENT	HP-3808	HP-3808A	HP-3808A	HP-3808A	HP-3820A	HP-3820A	HP-3820A
DATE	9-18-79	1-3-80	1-9-80	1-15-80	1-23-80	1-29-80	2-4-80
TIME	2:30 PM	2:10 PM	8:05 AM	3:30 PM	1:30 PM	9:00 AM	4:00 PM
H.M.	4.76'	4.76'	4.76'	4.76'	4.76'	4.76'	4.76'
WEATHER	Clr, Wm, 0-10	Ptly, Cldy, 0-5	Cldy, Cld.	Clr, Cl, 10-15	Clr, Calm	Cldy 20-25 SN. F.	Clr. Wm 0-5
TEMP. °F	78°F	40°	30°	40°	38°	35°	50°
PRESS.	6980	7007.76	7007.76	7007.76	7007.76 (23.4)	7007.76 (2305)	23.31
CORR.	6980	58 ppm	52 ppm	56 ppm	52 ppm	54 ppm	58 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"N"	934.011	934.023	934.019	934.009	933.997	934.007	934.005
N1	1229.761	1229.760	1229.752	1229.758	1229.758	1229.755	1229.741
N2	1061.802	**	1061.796	1061.791	1061.796	1061.797	1061.782
N3	914.250	914.240	914.230	914.226	914.221	914.226	914.212
N4	788.729	788.734	788.722	788.733	788.712	788.701	788.703
N5	700.835	700.812	700.819	700.815	700.800	700.778	700.780
N6	661.875	661.881	661.847	661.856	661.829	661.817	661.814
N7	683.191	683.174	683.174	683.175	683.159	683.129	683.138
N8	757.347	757.336	757.329	757.305	757.278	757.253	757.256
N9	758.289	758.268	758.257	758.268	758.236	758.216	758.221
N10	761.800	761.777	761.780	761.797	761.785	761.756	761.763
N11	817.498	817.485	817.478	817.492	817.477	817.461	817.469
N12	861.120	861.140	861.098	861.104	861.089	861.079	861.091
N13	918.335	918.363	918.322	918.331	918.317	918.307	918.302
N14	977.672	977.696	977.672	977.678	977.663	977.652	977.644
N15	1032.741	1032.757	1032.738	1032.725	1032.724	1032.719	1032.709
N16	1068.282	1068.297	1068.297	1068.286	1068.263	1068.269	1068.259
SD1	1286.044	1286.035	1268.010	1286.012	1286.007	1286.018	1286.009
SD2	1256.808	1256.811	1256.791	1256.799	1256.772	* 1256.784	1256.774
SD3	1249.167	1248.942	1248.920	1248.925	1248.905	* 1248.914	1248.909
SD4	1283.270	1283.288	1283.278	1283.280	1283.268	* 1283.261	1283.254
SD5	1351.283	1351.271	1351.254	1351.245	1351.237	* 1351.241	1351.221
ND1	689.000	689.014	689.008	689.033	689.007	* 689.007	688.997
ND2	598.257	598.261	598.260	598.261	598.258	* 598.257	598.260
ND3	428.277	428.268	428.265	428.273	428.247	* 428.253	428.245
B1	(595.694)				595.695	* 595.694	595.685
B2	(399.045)				399.096	* 399.045	399.050
B3	(1084.119)				1084.121	1084.119	1084.101
B4	(1021.513)				1021.527	1021.513	1021.501
B5	(1653.002)				1653.004	1653.002	1653.007
B6	(1509.193)				1509.199	1509.193	1509.192
B7	(1376.785)				1376.779	1376.785	1376.785
	1032.911	1032.912	1032.901	1032.898	1032.902	1032.905	1032.903

Note: SLOPE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18

* NO MEASUREMENT ** TEMPORARY OBSTRUCTION

[illegible]
[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "O"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2 (18)	20					
INSTRUMENT	HP-3808	HP-3820A					
DATE	9-18-79	2-14-80					
TIME	2:30 PM	9:50 AM					
H.M.	4.76'	7012.52					
WEATHER	Cl, Wm 0-10	Cldy 5-10					
TEMP. °F	78°F	45°					
PRESS.	6980	23.13					
CORR.	6980	57 ppm					
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"N"	934.011	934.002					
N1	1229.761	1229.734					
N2	1061.802	1061.778					
N3	914.250	914.206					
N4	788.729	788.687					
N5	700.835	700.782					
N6	661.875	661.806					
N7	683.191	683.136					
N8	757.347	757.256					
N9	758.289	758.213					
N10	761.800	761.767					
[illegible]	817.498	817.475					
N12	861.120	861.087					
N13	918.335	918.313					
N14	977.672	977.665					
N15	1032.741	1032.732					
N16	1068.282	1068.271					
SD1	1286.044	1285.992					
SD2	1256.808	1256.755					
SD3	1249.167	1248.889					
SD4	1283.270	1283.239					
SD5	1351.283	1351.201					
ND1	689.000	689.002					
ND2	598.257	598.265					
ND3	428.277	428.248					
B1	(595.694)	595.689					
B2	(399.045)	399.055					
B3	(1084.119)	1084.096					
B4	(1021.513)	1021.501					
B5	(1653.002)	1652.990					
B6	(1509.193)	1509.179					
B7	(1376.785)	1376.749					
[illegible]	1032.911	1033.022					

* NO MEASURED SHOT

8008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

INSTRUMENT STATION "P"

RUN NO.	1	2	3	4	5	6	7
INSTRUMENT	HP-3805	HP-3808		HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	8-16-79	9-18-79	10-20-79	10-27-79	11-2-79	11-6-79	11-13-79
TIME	8:00 AM	1:15: PM		11:00 AM	12:10 PM	4:30 P.M.	3:20 P.M.
H.M.	5.41'	4.37'		4.37'	4:37'	4.37'	4.37'
WEATHER	Pt Cldy0-5	Cl,WM 0-5				Cldy. 0-5	Clr. 0-3
TEMP. °F	70°	76°			43°	55°	53°
PRESS.	7048.26	7020		7048.26'	7048.26	7048.26	7048.26
CORR.		72 ppm			57 ppm	63 ppm	63 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"N"	*	1580.495	*	1580.498	1580.495	1580.492	1580.486
N6	1509.61	1509.554	*	1509.553	1509.557	1509.561	1509.546
N7	1399.13	1399.075	*	1399.071	1399.079	1399.082	1399.064
N8	1308.77	1308.721	*	1308.730	1308.724	1308.735	1308.710
N9	1142.25	1142.196	*	1142.198	1142.195	1142.205	1142.192
N10	959.64	959.552	*	959.556	959.554	959.565	959.552
N11	786.06	785.950	*	785.963	785.953	785.955	785.951
N12	703.83	703.712	*	703.722	703.718	703.721	703.706
N13	631.16	631.029	*	631.035	631.027	631.035	631.028
N14	561.86	561.711	*	561.732	561.725	561.734	561.718
N15	492.50	492.325	*	492.336	492.335	492.330	492.334
N16	412.50	412.296	*	412.310	412.312	412.311	412.298
"P"	*	1033.229	*	1033.22	1033.228	1033.237	1033.232

* NO MEASUREMENT REQUIRED

2008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "P"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2	8	9	10	11	12	13
INSTRUMENT	HP-3808	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A	HP-3808A
DATE	9-18-79	11-20-79	11-26-79	12-4-79	12-11-79	12-18-79	12-21-79
TIME	1:15 PM	1:00 PM	3:00 PM	12:15 PM	11:30 AM	11:30 AM	11:00 AM
H.M.	4.37'	4.37'	4.37'	4.37'	4.37'	4.37'	4.37'
WEATHER	Cl,WM 0-5	Cldy,SN20-30	Clr,Windy	Clr, Clm	Cldy, Cool, 10-15	Clr, Clm	Cldy, Cld 10-20
TEMP. °F	76°	27°	57°	54°	48°	54°	44°
PRESS.	7020	7048.26	7048.26	7048.26	7048.26	7048.26'	7048.26
CORR.	72 ppm	50 ppm	64 ppm	62 ppm	60 ppm	62 ppm	56 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"N"	1580.495	1580.478	1580.485	1580.476	1580.470	1580.493	1580.485
N6	1509.554	1509.540	1509.533	1509.515	1509.521	1509.540	1509.534
N7	1399.075	1399.063	1399.056	1399.042	1399.038	1399.058	1399.053
N8	1308.721	1308.696	1308.697	1308.689	1308.698	1308.699	1308.691
N9	1142.196	1142.192	1142.184	1142.165	1142.175	1142.190	1142.174
N10	959.552	929.551	959.526	959.523	959.519	959.542	959.535
N11	785.950	785.942	785.922	785.919	785.927	785.954	785.950
N12	703.712	703.720	703.682	703.672	703.682	703.697	703.701
N13	631.029	631.034	630.995	630.989	631.002	631.021	631.031
N14	561.711	561.715	561.688	561.691	561.704	561.732	561.750
N15	492.325	492.339	492.289	492.296	492.292	492.347	492.304
N16	412.296	412.274	412.247	412.259	412.256	412.318	412.268
[illegible]	1033.229	1033.246	1033.223	[illegible].222	1033.210	1033.235	1033.217

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "P"

PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2 (18)	14	15	16	17	18	19
INSTRUMENT	HP-3808	HP-3808A	HP-3808A	HP-3808A	HP-3820A	HP-3820A	HP-3820A
DATE	9-18-79	1-4-80	1-8-80	1-16-80	1-22-80	1-28-80	2-4-80
TIME	1:15 PM	10:45 AM	3:35 PM	7:30 AM	2:30 PM	1:40 PM	2:30 PM
H.M.	4.37'	4.37'	4.37'	4.37'	4.37'	4.37'	4.37'
WEATHER	Clr,Wm,0-5	Cl,Clr. 0	Cldy,Cld 0-5	Ptly.Cldy	Cldy,0-5	Cldy 10-25	Clr. 0-5
TEMP. °F	*76° F	34°	37°	34°	36°	37°	50°
PRESS.	*7020	7048.26	7048.26	7048.26	7048.26 (23.21)	7048.26(22.95)	23.31
CORR.	*72 ppm	53ppm	56 ppm	55 ppm	53 ppm	56 ppm	58 ppm
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"N"	1580.495	1580.479	1580.481	1580.47[illegible]	1580.478	1580.467	1580.473
N6	1509.554	1509.528	1509.541	1509.515	1509.516	1509.485	1509.489
N7	1399.075	1399.058	1399.059	1399.047	1399.043	1399.017	1399.023
N8	1308.721	1308.687	1308.691	1308.672	1308.647	1308.644	1308.625
N9	1142.196	1142.189	1142.188	1142.174	1142.171	1142.144	1142.163
N10	959.552	959.552	959.546	959.537	959.546	959.520	959.545
N11	785.950	785.928	785.942	785.937	785.920	785.914	785.966
N12	703.712	703.689	703.696	703.685	703.669	703.671	703.678
N13	631.029	631.009	631.005	631.012	630.992	630.987	631.039
N14	561.711	561.705	561.722	561.716	561.694	561.676	561.693
N15	492.325	492.305	492.321	492.332	492.298	492.289	492.301
N16	412.296	412.277	412.266	412.270	412.270	412.243	412.255
[illegible]	(1339.226)				1339.226	1339.226	1339.229
B2	(1265.778)				1265.778	1265.791	1265.796
"O"	1033.229	1033.228	1033.237	1033.224	1033.223	1033.188	1033.218

Note: SLOPE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18
* NO MEASUREMENT

[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

INSTRUMENT STATION "P"

PROJECT [illegible] CAM
LOCATION CHURCH ROCK, NM
JOB NO. 22064

RUN NO.	2 (18)	20					
INSTRUMENT	HP-3808	HP-3820A					
[illegible]	9-18-79	2-14-80					
TIME	1:15 PM	8:30 AM					
H.M.	4.37'	7052.63					
WEATHER	Cl, WM 0-5	Cl dy 5-10					
TEMP. °F	76° F	38°					
PRESS.	7020	23.13					
CORR.	72 ppm	55 ppm					
	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.	SLOPE DIST.
"N"	1580.495	1580.458					
N6	1509.554	1509.489					
N7	1399.075	1399.028					
N8	1308.721	1308.629					
N9	1142.196	1142.153					
N10	959.552	959.544					
N11	785.950	785.958					
N12	703.712	703.675					
N13	631.029	630.990					
N14	561.711	561.681					
N15	492.325	492.267					
N16	412.296	412.332					
[illegible]	(1339.226)	1339.223					
B2	(1265.791)	1265.776					
"O"	1033.229	1033.066					

* NO MEASUREMENT NOTE: SLOPE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

SECTION B

Relative Distance Change

8200 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "A"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79084

READING NO.	1	2	3	4	5	6	7
DATE	8-16-79	9-18-79	10-20-79	10-27-79	11-1-79	11-6-79	11-13-79
MONITOR I.D. NUMBER		BASE REFERENCE DISTANCE	**	RELATIVE		CHANGE	(FT.)
"O"		4012.272	*	-0.002	+0.009	+0.026	-0.010
S8		1401.480	*	+0.021	+0.023	+0.034	+0.018
S9		1308.081	*	+0.018	+0.042	+0.034	+0.012
S10		1130.135	*	-0.025	+0.042	+0.028	+0.018
S11		960.648	*	+0.018	+0.046	+0.032	+0.031
S12		807.554	*	+0.025	+0.009	+0.034	+0.024
"M"		2096.941	*	-0.001	-0.014	+0.004	+0.010

* SEE SEC.

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

8000 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "A"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO 79054

RUN NO.	2	8	9	10	11	12	13
DATE	9-18-79	11-20-79	11-27-79	12-4-79	12-11-79	12-18-79	12-20-79
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT)					
"O"	4012.272	+0.019	+0.035	+0.020	-0.002	+0.009	+0.007
S8	1491.480	+0.020	+0.022	+0.029	+0.019	+0.014	+0.023
S9	1308.081	+0.041	+0.026	+0.056	+0.020	+0.030	+0.017
S10	1130.135	+0.025	+0.019	+0.044	+0.017	+0.021	+0.014
S11	960.648	+0.040	+0.018	+0.029	+0.016	+0.025	+0.049
S12	807.554	+0.039	+0.018	+0.021	+0.009	+0.021	+0.020
"M"	2096.941	-0.004	-0.020	0.000	-0.021	-0.007	-0.022

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

[illegible]
[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "A"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79094

RUN NO.	2 (18)	14	15	16	17	18	19
		1-2-80	1-8-80	1-15-80	1-21-80	1-30-80	2-5-80
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT.)					
"O"	4012.272	+0.033	+0.013	+0.015	-0.008	-0.013	-0.015
S1	(2718.420)						+0.032
S2	(2623.197)						+0.020
S3	(2431.743)						+0.026
S4	(2244.637)						+0.018
S5	(2061.726)						+0.012
S6	(1867.090)						-0.002
S7	(1677.429)						+0.009
S8	1491.480	+0.025	+0.032	+0.029	+0.010	-0.007	-0.002
S9	1308.081	+0.066	+0.057	+0.040	+0.029	+0.020	+0.018
S10	1130.135	+0.045	+0.042	+0.027	+0.021	-0.001	+0.002
S11	960.648	+0.047	+0.037	+0.025	+0.011	0.000	+0.002
S12	807.554	+0.030	+0.035	+0.029	+0.018	+0.012	+0.016
S13	(736.948)						+0.013
S14	(653.854)						+0.010
"M"	2096.941	+0.012	-0.018	-0.013	-0.010	-0.029	-0.023

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERECE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18

[illegible]
[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "A"

CLIENT U.N.C. MINING
PROJECT [illegible]
LOCATION CHURCH ROCK, NM
JOB NO 78064

RUN NO.	2 (18)	20					
	9-18-79	2-14-80					
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE		**	RELATIVE		CHANGE	(FT.)
"O"	4012.272	-0.062					
S1	(2718.420)	+0.020					
S2	(2623.197)	+0.040					
S3	(2431.743)	-0.015					
S4	(2244.637)	+0.031					
S5	(2061.726)	+0.006					
S6	(1867.090)	-0.009					
S7	(1677.429)	+0.004					
S8	1491.480	-0.011					
S9	1308.081	+0.012					
S10	1130.135	-0.001					
S11	960.648	+0.011					
S12	807.554	+0.023					
S13	(736.948)	+0.008					
S14	(653.854)	+0.009					
"M"	2096.941	-0.036					

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERENCE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

8208 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "M"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79094

RUN NO.	1	2	3	4	5	6	7
DATE	8-16-79	9-18-79	10-20-79	10-27-79	11-2-79	11-6-79	11-13-79
MONITOR I.D. NUMBER		BASE REFERENCE DISTANCE	**	RELATIVE		CHANGE	(FT.)
"O"		*	*	2054.627 REF	+0.023	+0.014	+0.013
"I"		2150.228	*	MONITOR	STA. "I" HAS	BEEN LOST	
S8		1353.278	*	+0.020	+0.031	+0.039	+0.033
S9		1453.494	*	+0.033	+0.033	+0.032	+0.042
S10		1571.923	*	+0.020	+0.010	+0.023	+0.015
S11		1706.932	*	+0.013	+0.010	+0.012	+0.026
S12		1853.415	*	+0.050	+0.066	+0.080	+0.083
"A"		2096.810	*	+0.006	-0.003	+0.002	-0.009

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

8000 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "M"

PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO 79094

RUN NO.	2	8	9	10	11	12	13
DATE	9-18-79	11-19-79	11-26-79	12-4-79	12-10-79	12-17-79	12-20-79
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT.)					
"O"	2054.627	-0.003	-0.008	-0.005	+0.001	0.000	-0.001
S8	1353.278	+0.031	+0.036	+0.050	+0.026	+0.035	+0.023
S9	1453.494	+0.023	+0.032	+0.036	+0.036	+0.045	+0.029
S10	1571.923	-0.012	+0.004	+0.006	+0.007	+0.002	-0.005
S11	1706.932	0.000	+0.009	+0.021	+0.017	+0.013	+0.025
S12	1853.415	+0.069	+0.076	+0.106	+0.075	+0.099	+0.070
"A"	2096.810	-0.022	-0.009	-0.033	-0.021	-0.017	-0.026

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "M"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 29094

RUN NO.	2 (18)	14	15	16	17	18	19
DATE		1-2-80	1-8-80	1-15-80	1-22-80	1-30-80	2-5-80
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT.)					
"O"	2054.627	-0.011	-0.010	-0.021	+0.014	0.000	+0.002
S1	(1322.373)						-0.004
S2	(1283.[illegible])						-0.014
S3	(1227.335)						-0.021
S4	(1202.218)						-0.021
S5	(1210.775)						-0.001
S6	(1226.372)						-0.017
S7	(1275.581)						0.019
S8	1353.278	+0.018	+0.042	+0.046	+0.032	+0.023	+0.020
S9	1453.494	+0.020	+0.046	+0.050	+0.044	+0.030	+0.038
S10	1571.923	+0.003	+0.008	+0.009	-0.002	-0.021	-0.002
S11	1706.932	-0.010	+0.016	+0.014	+0.007	-0.008	+0.009
S12	1853.415	+0.105	+0.119	+0.134	+0.125	+0.124	+0.123
S13	(1929.882)						-0.014
S14	(1990.486)						+0.013
"A"	2096.810	-0.024	-0.024	-0.017	-0.001	-0.032	-0.023

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERENCE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

4200 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "M"

CLIENT U.N.C. MILLING
PROJECT TAILINGS I.A.M.
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2 (18)	20					
	9-18-79	2-14-80					
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT.)					
"O"	2054.627	+0.009					
S1	(1322.378)	+0.007					
S2	(1283.611)	-0.009					
S3	(1227.335)	-0.012					
S4	(1202.218)	-0.020					
S5	(1210.775)	0.000					
S6	(1226.372)	-0.016					
S7	(1275.581)	-0.007					
S8	1353.278	+0.026					
S9	1453.494	+0.039					
S10	1571.923	+0.009					
S11	1706.932	+0.009					
S12	1853.415	+0.133					
S13	(1929.882)	-0.031					
S14	(1990.486)	+0.026					
"A"	2096.810	+0.004					

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERENCE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "N"

PAGE 2 OF 20
CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79034

RUN NO.	1	2	3	4	5	6	7
DATE	8-16-79	9-18-79	10-20-79	10-27-79	11-2-79	11-6-79	11-13-79
MONITOR I.D. NUMBER		BASE REFERENCE DISTANCE	**	RELATIVE		CHANGE	(FT.)
"P"		1580.233	-0.031	+0.001	-0.010	-0.016	-0.004
N1		1332.966	*	0.000	+0.012	-0.050	-0.017
N2		1286.523	*	-0.003	+0.004	-0.019	-0.015
N3		1281.687	*	+0.014	+0.005	-0.020	-0.004
N4		1306.565	*	+0.012	+0.007	-0.013	*
N5		1362.648	*	+0.010	+0.009	-0.018	-0.001
SD1		1290.092	-0.014	-0.006	+0.005	-0.024	-0.016
SD2		1203.639	-0.003	+0.010	+0.014	+0.008	-0.003
SD3		1052.698	-0.032	-0.063	-0.063	-0.065	-0.065
SD4		933.958	-0.006	+0.010	+0.008	+0.008	0.000
SD5		849.129	-0.035	-0.015	-0.010	-0.010	-0.023
ND1		1183.925	-0.003	+0.012	+0.019	+0.006	*
ND2		1099.086	+0.002	+0.020	+0.010	+0.003	*
ND3		935.904	-0.006	*	+0.017	+0.005	+0.006
"O"		933.896	-0.004	+0.007	+0.005	+0.007	+0.003

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

ACEB PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "N"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79084

RUN NO.	2	8	9	10	11	12	13
DATE	9-18-79	11-20-79	11-26-79	12-4-79	12-11-79	12-18-79	12-21-79
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	**		RELATIVE		CHANGE	(FT.)
"P"	1580.233	-0.011	-0.021	-0.025	-0.011	+0.002	-0.013
N1	1332.966	+0.001	+0.001	+0.012	-0.001	-0.004	+0.001
N2	1286.523	-0.016	-0.012	-0.013	*-0.010	-0.009	-0.004
N3	1281.687	-0.008	*	*	-0.013	-0.007	-0.003
N4	1306.565	*	*	+0.008	-0.014	0.000	-0.006
N5	1362.648	+0.001	-0.013	+0.007	-0.014	-0.010	-0.014
SD1	1290.092	-0.007	-0.006	-0.011	-0.017	-0.013	-0.012
SD2	1203.639	-0.006	0.000	-0.003	-0.001	-0.010	-0.015
SD3	1052.698	-0.085	-0.073	-0.116	-0.129	-0.141	-0.138
SD4	933.958	-0.005	+0.001	-0.001	-0.004	-0.001	-0.010
SD5	849.129	-0.030	-0.015	-0.017	-0.015	-0.023	-0.022
ND1	1183.925	+0.004	*	+0.015	-0.013	+0.005	+0.005
ND2	1099.086	+0.004	+0.007	+0.004	*	+0.008	+0.008
ND3	935.904	+0.008	+0.008	+0.016	+0.013	+0.009	+0.015
"O"	933.896	+0.015	+0.006	+0.008	+0.008	+0.010	+0.004

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

8000 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "N"

PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO 79004

RUN NO.	2 (18)	14	15	16	17	18	19
DATE	9-18-79	1-4-80	1-9-80	1-15-80	1-23-80	1-28-80	2-5-80
MONITOR ID NUMBER	BASE REFERENCE DISTANCE		**	RELATIVE		CHANGE	(FT.)
"P"	1580.233	+0.004	-0.018	-0.018	-0.012	*-0.016	-0.025
N1	1332.966	+0.023	+0.011	+0.011	+0.003	-0.013	0.000
N2	1286.523	-0.005	-0.007	-0.015	-0.017	-0.025	-0.017
N3	1281.687	*	-0.017	-0.011	-0.014	-0.030	-0.020
N4	1306.565	-0.002	+0.003	-0.012	-0.012	-0.033	-0.019
N5	1362.648	+0.002	-0.003	-0.022	-0.029	-0.045	-0.037
SD1	1290.092	-0.018	-0.004	-0.015	-0.019	-0.047	-0.040
SD2	1203.639	-0.011	-0.004	-0.015	-0.018	-0.027	-0.020
SD3	1052.698	-0.143	-0.131	-0.151	-0.152	-0.156	-0.150
SD4	933.958	-0.008	+0.006	-0.006	-0.009	-0.017	-0.011
SD5	849.129	-0.027	-0.014	-0.027	-0.044	-0.047	-0.047
ND1	1183.925	+0.035	+0.011	+0.001	0.000	-0.002	0.000
ND2	1099.086	+0.003	+0.009	+0.002	*	-0.001	-0.014
ND3	935.904	+0.016	+0.017	+0.008	+0.013	-0.002	-0.001
B3	(777.748)						-0.031
B4	(916.410)						-0.033
B5	(1354.228)						-0.012
B6	(1392.403)						-0.009
B7	(1452.260)						-0.003
"O"	933.896	+0.013	+0.018	+0.011	+0.019	+0.006	-0.002

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERENCE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

[illegible]
[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "N"

CLIENT UNC MINING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79084

RUN NO.	2 (18)	20					
DATE	9-18-79	2-13-80					
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT.)					
"P"	1580.233	+0.089					
N1	1332.966	-0.001					
N2	1286.523	-0.017					
N3	1281.687	-0.027					
N4	1306.565	-0.018					
N5	1362.648	-0.048					
SD1	1290.092	-0.041					
SD2	1203.639	-0.015					
SD3	1052.698	-0.141					
SD4	933.958	-0.024					
SD5	849.129	-0.049					
ND1	1183.925	-0.009					
ND2	1099.086	-0.004					
ND3	935.904	-0.006					
B3	(777.748)	-0.010					
B4	(916.410)	-0.020					
B5	(1354.228)	-0.011					
B6	(1392.403)	-0.005					
[illegible]	(1452.260)	-0.012					
"O"	933.896	+0.028					

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERENCE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "O"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79094

RUN NO.	1	2	3	4	5	6	7
DATE	8-15-79	9-18-79	10-20-79	10-27-79	11-2-79	11-6-79	11-13-79
MONITOR I.D. NUMBER		BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT.)				
"N"		934.011	-0.015	+0.005	-0.002	+0.002	+0.007
N1		1229.761	*	-0.011	-0.006	+0.010	+0.002
N2		1061.802	*	-0.001	-0.015	-0.001	-0.001
N3		914.250	*	-0.013	+0.002	+0.004	-0.007
N4		788.729	*	-0.017	+0.008	+0.003	-0.001
N5		700.835	*	+0.007	+0.009	+0.004	0.000
N6		661.875	*	+0.006	+0.016	+0.010	0.000
N7		683.191	*	+0.003	+0.017	+0.013	+0.009
N8		757.347	*	+0.002	+0.016	+0.010	+0.005
N9		758.289	*	+0.003	+0.013	+0.004	+0.002
N10		761.800	*	+0.004	+0.015	+0.006	0.000
N11		817.498	*	+0.004	+0.009	-0.008	-0.005
N12		861.120	*	-0.001	+0.001	-0.011	-0.002
N13		918.335	*	-0.002	+0.012	-0.009	+0.004
N14		977.672	*	+0.006	+0.023	+0.011	+0.010
N15		1032.741	*	+0.003	+0.012	+0.004	+0.001
N16		1068.282	*	+0.001	+0.005	+0.004	+0.005
SD1		1286.044	-0.038	-0.022	-0.030	-0.018	-0.018
SD2		1256.808	-0.024	-0.005	-0.015	+0.008	+0.012
SD3		1249.167	-0.083	-0.101	-0.095	-0.074	-0.148
SD4		1283.270	0.000	+0.019	+0.005	+0.042	+0.019
SD5		1351.283	-0.033	-0.024	-0.014	-0.010	-0.019
ND1		689.000	-0.004	-0.007	+0.002	+0.008	+0.004
ND2		598.257	-0.005	+0.001	+0.009	+0.008	+0.001
ND3		428.277	-0.001	-0.007	+0.007	+0.011	-0.001
"P"		1032.911	-0.029	-0.002	-0.004	-0.008	+0.006

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

4000 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "O"

CLIENT U.S. ARMY CORPS
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79084

RUN NO.	2	8	9	10	11	12	13
DATE	9-18-79	11-20-79	11-27-79	12-4-79	12-11-79	12-18-79	12-21-79
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE		**	RELATIVE	CHANGE		(FT.)
"N"	934.011	-0.007	+0.008	-0.002	0.000	-0.005	0.000
N1	1229.761	+0.004	+0.007	-0.011	-0.009	-0.006	-0.004
N2	1061.802	-0.002	+0.003	-0.013	-0.007	-0.009	-0.009
N3	914.250	+0.006	-0.007	-0.022	-0.032	-0.021	-0.028
N4	788.729	+0.002	-0.001	-0.014	-0.011	-0.009	-0.007
N5	700.835	-0.019	-0.011	-0.012	-0.021	-0.014	-0.014
N6	661.875	-0.012	-0.008	-0.009	-0.023	-0.032	-0.016
N7	683.191	-0.003	-0.005	-0.008	-0.021	-0.010	-0.002
N8	757.347	0.000	-0.006	0.000	-0.018	-0.018	-0.014
N9	758.289	-0.002	-0.004	-0.003	-0.005	-0.021	-0.017
N10	761.800	+0.002	-0.009	+0.010	-0.019	-0.014	-0.017
N11	817.498	-0.005	-0.013	-0.006	-0.023	-0.020	-0.019
N12	861.120	-0.003	-0.010	-0.004	-0.006	-0.011	-0.016
N13	918.335	+0.005	-0.010	*	-0.003	-0.010	-0.008
N14	977.672	+0.020	+0.001	+0.001	-0.012	-0.000	+0.001
N15	1032.741	+0.005	-0.006	+0.007	-0.003	+0.015	-0.010
N16	1068.282	+0.019	-0.016	+0.020	-0.003	+0.015	+0.010
SD1	1286.044	-0.017	-0.030	-0.038	-0.031	-0.034	-0.025
SD2	1256.808	+0.005	-0.008	-0.009	-0.015	-0.016	-0.016
SD3	1249.167	-0.165	-0.181	-0.214	-0.233	-0.233	-0.237
SD4	1283.270	+0.026	+0.014	+0.015	+0.003	+0.007	+0.012
SD5	1351.283	-0.020	-0.019	-0.019	-0.029	-0.030	-0.035
ND1	689.000	+0.065	-0.005	-0.012	-0.002	0.000	+0.011
ND2	598.257	-0.003	-0.006	-0.013	+0.008	+[illegible]001	+0.007
ND3	428.277	-0.009	-0.010	-0.028	-0.016	-0[illegible]8	-0.012
"P"	1032.911	-0.007	-0.005	-0.004	-0.006	-0.006	-0.026

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

8608 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "O"

PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO 79094

RUN NO.	2 (18)	14	15	16	17	18	19
DATE	9-18-79	1-3-80	1-9-80	1-15-80	1-23-80	1-29-80	2-4-80
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE		**	RELATIVE		CHANGE	(FT)
"N"	934.011	+0.012	+0.008	-0.002	-0.014	-0.004	-0.006
N1	1229.761	-0.001	-0.009	-0.003	-0.003	-0.006	-0.020
N2	1061.802	*	-0.006	-0.011	-0.006	-0.005	-0.020
N3	914.250	-0.010	-0.020	-0.024	-0.029	-0.024	-0.038
N4	788.729	+0.005	-0.007	+0.004	-0.017	-0.028	-0.026
N5	700.835	-0.023	-0.016	-0.020	-0.035	-0.057	-0.055
N6	661.875	+0.006	-0.028	-0.019	-0.046	-0.058	-0.061
N7	683.191	-0.016	-0.017	-0.015	-0.032	-0.062	-0.053
N8	757.347	-0.011	-0.018	-0.042	-0.069	-0.094	-0.091
N9	758.289	-0.021	-0.032	-0.021	-0.053	-0.073	-0.068
N10	761.800	-0.023	-0.020	-0.003	-0.015	-0.044	-0.037
N11	817.498	-0.013	-0.020	-0.006	-0.021	-0.037	-0.029
N12	861.120	+0.020	-0.022	-0.016	-0.031	-0.041	-0.029
N13	918.335	+0.028	-0.013	-0.004	-0.018	-0.028	-0.033
N14	977.672	+0.024	-0.002	+0.006	-0.009	-0.020	-0.028
N15	1032.741	+0.016	-0.003	-0.016	-0.017	-0.022	-0.032
N16	1068.282	+0.015	+0.015	+0.004	-0.019	-0.013	-0.023
SD1	1286.044	-0.009	-0.034	-0.032	-0.037	-0.026	-0.035
SD2	1256.808	+0.003	-0.017	-0.009	-0.036	-0.024	-0.034
SD3	1249.167	+0.225	-0.247	-0.242	-0.262	-0.253	-0.258
SD4	1283.270	+0.018	+0.008	+0.010	-0.002	-0.009	-0.016
SD5	1351.283	-0.012	-0.029	-0.038	-0.046	-0.042	-0.062
ND1	689.000	+0.014	+0.008	+0.033	+0.007	+0.007	-0.003
ND2	598.257	-0.004	+0.003	+0.004	+0.001	0.000	+0.003
ND3	428.277	-0.009	-0.012	-0.004	-0.030	-0.024	-0.032
B1	(595.694)						-0.009
B2	(399.045)						+0.005
B3	(1084.119)						-0.018
B4	(1021.513)						-0.012
B5	(1653.002)						+0.005
B6	(1509.193)						-0.001
B7	(1376.785)						0.000
"P"	1032.911	+0.001	-0.010	-0.013	-0.009	-0.006	-0.008

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERENCE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87108

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "O"

PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO 79094

RUN NO.	2 (18)	20					
DATE	9-18-79	2-14-80					
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT)					
"N"	934.011	-0.009					
N1	1229.761	-0.027					
N2	1061.802	-0.024					
N3	914.250	-0.044					
N4	788.729	-0.042					
N5	700.835	-0.053					
N6	661.875	-0.069					
N7	683.191	-0.055					
N8	757.347	-0.091					
N9	758.289	-0.076					
N10	761.800	-0.033					
N11	817.498	-0.023					
N12	861.120	-0.033					
N13	918.335	-0.022					
N14	977.672	-0.007					
N15	1032.741	-0.009					
N16	1068.282	-0.011					
SD1	1286.044	-0.052					
SD2	1256.808	-0.053					
SD3	1249.167	-0.278					
SD4	1283.270	-0.031					
SD5	1351.283	-0.082					
ND1	689.000	+0.002					
ND2	598.257	+0.008					
ND3	428.277	-0.029					
B1	(595.6[illegible]4)	-0.005					
B2	(399.045)	+0.010					
B3	(1084.119)	-0.023					
B4	(1021.513)	-0.012					
B5	(1653.002)	-0.012					
B6	(1509.193)	-0.014					
B7	(1376.785)	-0.036					
"P"	1032.911	+0.111					

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERENCE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

Dames & Moore, Inc.
Consulting Engineers
4008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79094

MONITOR STATION RELATIVE CHANGE
INSTRUMENT STATION "P"

RUN NO.	1	2	3	4	5	6	7
DATE	8-16-79	9-18-79	10-20-79	10-27-79	11-2-79	11-6-79	11-13-79
MONITOR I.D. NUMBER		BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT)				
"N"		1580.495	*	+0.003	0.000	-0.003	-0.009
N6		1509.554	*	-0.001	+0.003	+0.007	-0.008
N7		1399.075	*	-0.004	+0.004	+0.007	-0.0[illegible]
N8		1308.721	*	+0.009	+0.003	+0.014	-0.0[illegible]
N9		1142.196	*	+0.002	-0.001	+0.009	-0.004
N10		959.552	*	+0.004	+0.002	+0.013	0.000
N11		785.950	*	+0.013	+0.003	+0.[illegible]5	+0.001
N12		703.712	*	+0.010	+0.006	+0.009	-0.006
N13		631.029	*	+0.006	-0.002	+0.006	-0.001
N14		561.711	*	+0.021	+0.014	+0.023	+0.007
N15		492.325	*	+0.011	+0.010	+0.005	+0.009
N16		412.296	*	+0.014	+0.016	+0.015	+0.002
"O"		1033.229	*	-0.006	-0.001	+0.008	+0.003

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

4208 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "P"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO 79004

RUN NO.	2	8	9	10	11	12	13
DATE	9-18-79	11-20-79	11-26-79	12-4-79	12-11-79	12-18-79	12-21-79
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT.)					
"N"	1580.495	-0.017	-0.010	-0.019	-0.025	-0.002	-0.010
N6	1509.554	-0.014	-0.021	-0.039	-0.033	-0.014	-0.020
N7	1399.075	-0.012	-0.019	-0.033	-0.037	-0.017	-0.022
N8	1308.721	-0.025	-0.024	-0.032	-0.023	-0.022	-0.030
N9	1142.196	-0.004	-0.012	-0.031	-0.021	-0.006	-0.022
N10	959.552	-0.001	-0.026	-0.029	-0.033	-0.010	-0.017
N11	785.950	-0.008	-0.028	-0.031	-0.023	+0.004	0.000
N12	703.712	+0.008	-0.030	-0.040	-0.030	-0.015	-0.011
N13	631.029	+0.005	-0.034	-0.040	-0.027	-0.008	+0.002
N14	561.711	+0.004	-0.023	-0.020	-0.007	+0.021	+0.039
N15	492.325	+0.014	-0.036	-0.029	-0.033	+0.022	-0.021
N16	412.296	-0.022	-0.049	-0.037	-0.040	+0.022	-0.028
"O"	1033.729	+0.017	-0.006	-0.007	-0.019	-0.004	-0.012

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "P"

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO 79094

RUN NO.	2 (18)	14	15	16	17	18	19
DATE	9-18-79	1-4-80	1-8-80	1-16-80	1-22-80	1-28-80	2-4-80
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT.)					
"N"	1580.495	-0.016	-0.014	-0.017	-0.017	-0.028	-0.022
N6	1509.554	-0.026	-0.013	-0.039	-0.038	-0.069	-0.065
N7	1399.075	-0.017	-0.016	-0.028	-0.032	-0.058	-0.052
N8	1308.721	-0.034	-0.030	-0.049	-0.074	-0.077	-0.096
N9	1142.196	-0.007	-0.008	-0.022	-0.025	-0.052	-0.033
N10	959.552	0.000	-0.006	-0.015	-0.006	-0.032	-0.007
N11	785.950	-0.022	-0.008	-0.013	-0.030	-0.036	+0.016
N12	703.712	-0.023	-0.016	-0.027	-0.043	-0.041	-0.034
N13	631.029	-0.020	-0.024	-0.017	-0.037	-0.042	+0.010
N14	561.711	-0.006	+0.011	+0.005	-0.017	-0.035	-0.018
N15	492.325	-0.020	-0.004	+0.007	-0.027	-0.036	-0.024
N16	412.296	-0.019	-0.030	-0.026	-0.026	-0.053	-0.041
B1	(1339.226)						+0.003
B2	(1265.791)						+0.005
"O"	1033.229	-0.001	+0.008	-0.005	-0.006	-0.041	-0.011

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERENCE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

[illegible]
[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION RELATIVE CHANGE

INSTRUMENT STATION "P"

PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79054

RUN NO.	2 (18)	20					
DATE	9-18-79	2-14-80					
MONITOR I.D. NUMBER	BASE REFERENCE DISTANCE	** RELATIVE CHANGE (FT.)					
"N"	1580.495	-0.037					
N6	1509.554	-0.065					
N7	1399.075	-0.047					
N8	1308.721	-0.092					
N9	1142.196	-0.043					
N10	959.552	-0.008					
N11	785.950	+0.008					
N12	703.712	-0.037					
N13	631.029	-0.039					
N14	561.711	-0.030					
N15	492.325	-0.038					
N16	412.296	+0.036					
B1	(1339.226)	-0.003					
B2	(1265.791)	-0.015					
"O"	1033.229	-0.163					

* SEE SECTION A

** PLUS INDICATES DISTANCE AWAY FROM INSTRUMENT LOCATION. MINUS INDICATES DISTANCE TOWARD INSTRUMENT LOCATION.

NOTE: BASE REFERENCE DISTANCES SHOWN IN PARENTHESIS ARE FROM RUN #18.

SECTION C

Elevations

8100 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U N C MINING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79004

MONITOR STATION ELEVATIONS

RUN NO.	1	2	3	4	5	6	7
DATE	8-17-79	9-17-79	10-20-79	10-27-79	11-1-79	11-5-79	11-12-79
MONITOR ID NUMBER	ELEVATION						
N1	6968.967	6968.973	6968.943	6968.950	6968.947	6968.943	6968.943
N2	69.260	69.266	69.230	69.240	69.230	6969.227	69.227
N3	68.830	68.837	68.806	68.817	68.803	6968.800	68.813
N4	67.960	67.964	*	67.940	67.930	6967.930	67.943
N5	69.360	69.373	*	69.357	69.350	6969.350	69.363
N6	69.370	69.380	*	69.359	69.347	6969.350	69.363
N7	69.887	69.900	*	69.883	69.876	6969.877	69.893
N8	68.990	69.000	*	68.980	68.977	6968.973	68.987
N9	70.427	70.433	*	70.403	70.406	6970.403	70.423
N10	69.047	69.060	*	69.023	69.026	6969.020	69.043
N11	68.057	68.070	*	68.036	68.046	6968.047	68.070
N12	67.630	67.637	*	67.603	67.610	6967.607	67.627
N13	68.103	68.117	*	68.086	68.087	6968.083	68.107
N14	68.580	68.580	*	68.539	68.550	6968.543	68.567
N15	68.090	68.103	*	68.073	68.080	6968.080	68.103
N16	68.910	68.927	*	68.896	68.907	6968.903	68.933
WD1	68.217	68.201	68.146	68.160	68.146	6968.143	68.161
WD2	68.413	68.401	68.336	68.350	68.356	6968.340	68.353
[illegible]	72.886	72.911	72.860	72.873	72.880	6972.870	72.887
SD1	68.580	68.563	68.493	68.500	68.490	6968.483	68.477
SD2	69.960	69.926	69.866	69.870	69.867	6969.863	68.857
SD3	69.160	69.116	68.976	68.986	68.980	6968.980	68.933
SD4	67.913	67.823	67.693	67.709	67.693	6967.700	67.690
SD5	6968.723	6968.710	6968.636	68.650	68.647	6968.650	68.647
S8	6964.980	64.955	*	64.940	64.940	6964.940	64.936
S9	6964.610	64.561	*	64.516	64.514	6964.510	64.493
S10	6963.690	63.668	*	63.656	63.660	6963.660	63.656
S11	64.090	64.048	*	64.026	64.030	6964.033	64.016
S12	6964.417	64.348	*	64.303	64.304	6964.293	64.286

* NO MEASUREMENT REQUIRED

8500 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION ELEVATIONS

CLIENT U N C MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO 79004

RUN NO.	2	8	9	10	11	12	13
DATE	9-17-79	11-19-79	11-27-79	12-3-79	12-11-79	12-17-79	12-20-79
MONITOR I.D. NUMBER	ELEVATION						
N1	6968.973	6968.947	6968.940	6968.940	6968.930	6968.930	6968.940
N2	69.266	69.220	69.213	69.227	* 68.690	68.693	68.717
N3	68.837	68.797	68.790	68.787	68.773	68.767	68.777
N4	67.964	67.927	67.930	67.937	67.923	67.927	67.947
N5	69.373	69.353	69.357	69.360	69.347	69.343	69.360
N6	69.380	69.350	69.350	69.360	69.343	69.347	69.373
N7	69.900	69.880	69.880	69.880	69.873	69.867	69.883
N8	69.000	68.967	68.970	68.983	68.963	68.963	68.983
N9	70.433	70.407	70.403	70.407	70.400	70.387	70.400
N10	69.060	69.017	69.020	69.027	69.017	69.013	69.033
N11	68.070	68.047	68.053	68.053	68.043	68.043	68.057
N12	67.637	67.603	67.603	67.617	67.590	67.600	67.617
N13	68.117	68.077	68.083	68.097	68.070	68.080	68.100
N14	68.580	68.540	68.543	68.550	68.537	68.537	68.553
N15	68.103	68.083	68.090	68.090	68.083	68.083	63.097
N16	68.927	68.903	68.913	68.923	68.907	68.917	68.937
ND1	68.201	68.137	68.137	68.137	68.120	68.120	68.130
N[illegible]	68.401	68.340	68.333	68.333	68.323	68.317	68.323
ND3	72.911	72.8.3	72.877	72.880	72.873	72.863	72.877
SD1	68.563	68.470	68.467	68.470	68.457	68.460	68.467
SD2	69.926	69.843	69.843	69.847	69.823	69.833	69.843
SD3	69.116	68.920	68.900	68.877	68.843	68.843	68.847
SD4	67.823	67.680	67.680	67.683	67.653	67.663	67.663
SD5	68.710	68.647	68.647	68.647	68.627	68.637	68.643
S8	64.955	64.940	64.920	64.930	64.923	64.930	64.923
S9	64.561	64.500	64.473	64.487	64.477	64.493	64.483
S10	63.668	63.667	63.637	63.650	63.643	63.657	63.653
S11	64.048	64.030	63.997	64.017	64.007	64.030	64.027
S12	64.348	64.297	64.263	64.273	64.260	64.270	64.263

*STATION DISTURBED, MEASUREMENTS CONTINUED

4600 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION ELEVATIONS

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2 (18)	14	15	16	17	18	19
		12-27-79	1-8-80	1-15-80	1-21-80	1-31-80	2-6-80
MONITOR I.D. NUMBER	ELEVATION						
N1	6968.973	6968.927	6968.933	6968.917	6968.927	* 6968.925	6968.939
N2	69.266	68.690	68.703	68.690	68.687	68.688	68.699
N3	68.837	68.767	68.773	68.750	68.763	68.758	68.772
N4	67.964	67.920	67.940	67.927	67.917	67.918	67.922
N5	69.373	69.347	69.357	69.333	69.347	69.338	69.349
N6	69.380	69.340	69.360	69.337	69.333	69.325	69.342
N7	69.900	69.870	69.880	69.850	69.863	69.852	69.855
N8	69.000	68.953	68.967	68.947	68.937	68.918	68.925
N9	70.433	70.383	70.383	70.353	70.363	70.345	70.355
N10	69.060	69.010	69.020	69.003	68.990	68.978	68.989
N11	68.070	68.047	68.053	68.027	68.033	68.022	68.032
N12	67.637	67.593	67.600	67.580	67.577	67.568	67.579
N13	68.117	68.070	68.086	68.067	68.057	68.048	68.059
N14	68.580	68.530	68.536	68.513	68.510	68.502	68.509
N15	68.103	68.087	68.093	68.067	68.070	68.065	68.079
N16	68.927	68.920	68.936	68.910	68.903	68.905	68.912
ND1	68.201	68.113	68.126	68.110	68.110	68.105	68.115
ND2	68.401	68.313	68.323	68.303	68.317	68.305	68.319
[illegible]	72.911	72.870	72.883	72.863	72.877	72.868	72.882
SD1	68.563	68.447	68.460	68.453	68.440	68.442	68.452
SD2	69.926	69.813	69.823	69.823	69.803	69.808	69.809
SD3	69.116	68.833	68.823	68.817	68.813	68.815	68.815
SD4	67.823	67.647	67.643	67.647	67.620	67.632	67.622
SD5	68.710	68.637	68.628	68.627	68.623	68.632	68.629
S1	(67.152)					67.152	67.165
S2	(66.708)					66.708	66.719
S3	(67.062)					67.062	67.055
S4	(66.985)					66.985	66.995
S5	(66.555)					66.555	65.562
S6	(65.332)					65.332	65.342
S7	(65.078)					65.078	65.079
S8	64.955	64.917	** 64.917	64.910	64.903	64.922	64.922
S9	64.561	64.460	** 64.467	64.467	64.443	64.458	64.465
S10	63.668	63.643	** 63.637	63.640	63.633	63.652	63.655
S11	64.048	63.997	** 64.007	64.020	63.993	64.012	64.005
S12	64.348	64.250	** 64.240	64.247	64.230	64.245	64.239
S13	(63.645)					63.645	63.632
S14	(65.768)					65.768	65.765
B1	(74.661)					74.661	74.641
[illegible]	(74.005)					74.005	73.931
B3	(76.392)					76.392	76.388
B4	(74.018)					74.018	74.018
B5	(7010.658)					7010.658	7010.658
B6	(7010.378)					7010.378	7010.378
B7	(7009.641)					7009.641	7009.641

* NO MEASUREMENT REQUIRED

NOTE: ELEVATIONS SHOWN IN PARENTHESES ARE FROM RUN 18.

8108 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION ELEVATIONS

PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	2 (18)	20					
DATE	9-17-79	2-12-80					
MONITOR ID NUMBER	ELEVATION						
N1	6968.973	6968.942					
N2	69.266	68.702					
N3	68.837	68.775					
N4	67.964	67.935					
N5	69.373	69.362					
N6	69.380	69.349					
N7	69.900	69.862					
N8	69.000	68.932					
N9	70.433	70.359					
N10	69.060	68.99[illegible]					
N11	68.070	68.035					
N12	67.637	67.579					
N13	68.117	68.062					
N14	68.580	68.509					
N15	68.103	68.072					
N16	68.927	68.912					
ND1	68.201	68.105					
ND2	68.401	68.309					
[illegible]	72.911	72.872					
SD1	68.563	68.455					
SD2	69.926	69.815					
SD3	69.116	68.825					
SD4	67.823	67.632					
SD5	68.710	68.635					
S1	(67.152)	67.172					
S2	(66.708)	66.725					
S3	(67.062)	67.072					
S4	(66.985)	66.995					
S5	(66.555)	65.565					
S6	(65.332)	65.339					
S7	(65.078)	65.085					
S8	64.955	64.925					
S9	64.561	64.459					
S10	63.668	63.659					
S11	64.048	64.019					
S12	64.348	64.249					
S13	(63.645)	63.629					
S14	(65.768)	65.769					
B1	(74.661)	74.621					
[illegible]	(74.005)	73.865					
B3	(76.392)	76.382					
B4	(74.018)	74.015					
B5	(7010.658)	7010.658					
B6	(7010.378)	7010.371					
B7	(7009.641)	7009.641					

* NO MEASUREMENT REQUIRED NOTE: ELEVATIONS SHOWN IN PARENTHESES ARE FROM RUN 18

[illegible]
[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

POND WATER SURFACE ELEVATIONS AND INDICATOR BOARD READINGS

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	1	2	3	4	5	6	7
DATE	*8-17-79	*9-17-79	10-20-79	10-27-79	11-1-79	11-6-79	11-1[illegible]-79
NORTH POND:							
Actual Water Surface Elevation			6954.6	6954.66	6954.47	6954.33	6954.42
Indicator Board #1 Reading						6954.37	6954.40
Indicator Board #2 Reading						**	**
CENTER POND:							
Actual Water Surface Elevation			6953.1	6953.71	6954.86	6955.80	6956.06
Indicator Board #1 Reading						6955.9	6956.25
Indicator Board #2 Reading						**	**
Indicator Board #3 Reading						**	**
SOUTH POND:							
Actual Water Surface Elevation			6951.8	6951.81	6951.65	6951.53	6951.49
Indicator Board #1 Reading						6951.1	51.14
Indicator Board #2 Reading						**	**
BORROW PIT WEST							
Actual Water Surface Elevation						6942.12	6943.10
Indicator Board #1 Reading						6942.15	43.09
Indicator Board #2 Reading						**	**
Indicator Board #3 Reading						**	**

* NO MEASUREMENT REQUIRED
** DRY

8808 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

MONITOR STATION ELEVATIONS

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

RUN NO.	3	8	9	10	11	12	13
[illegible]	10-20-79	11-19-79	11-27-79	12-3-79	12-11-79	12-17-79	12-20-79
MONITOR I.D. NUMBER	ELEVATION						
NORTH POND:							
WATER ELEV.	6954.6	6954.25	6954.11	6954.15	6954.34	6954.10	6954.12
IND BD. # 1		6954.27	6954.10	6954.15	6954.37	54.20	54.15
IND BD. # 2		**	**	**	6954.40	54.20	**
CIR. POND:							
WATER ELEV.	6953.1	6956.63	6957.11	6956.77	6956.41	6956.47	6956.07
IND BD. # 1		6957.65	*	*	*** 6957.00	56.70	56.65
IND BD. # 2		6956.60	6957.06	6956.70	6956.45	56.40	**
IND BD. # 3		**	**	**	****	****	****
SOUTH POND:							
WATER ELEV.	6951.8	6951.35	6951.17	6951.03	6950.85	6950.71	6950.58
IND BD. # 1		**	**	**	**	**	**
IND BD. # 2		**	**	6950.90	**	**	**
[illegible]RROW:	Run #6						
WATER ELEV.	6942.12	6944.50	6946.17	6947.64	6949.69	6951.19	6951.95
IND BD. # 1		44.47	46.10	*	6949.55	*****	*****
IND BD. # 2		**	**	6947.60	6949.52	51.00	51.70
IND BD. # 3		**	**	**	**	**	**

* NO MEASUREMENT REQUIRED
** DRY
*** IN SANDS
****REMOVED
***** UNDER WATER

6608 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U N C MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 73004

MONITOR STATION ELEVATIONS

RUN NO.	3	14	15	16	17	18	19
DATE	10-20-79	12-27-79	1-8-80	1-15-80	1-21-80	1-31-80	2-6-80
MONITOR I.D. NUMBER	ELEVATION						
NORTH POND:							
WATER ELEV.	6954.6	6954.02	6953.87	6953.80	6953.84	6953.75	6953.64
IND BD. # 1		54.10	53.90	53.85	**	**	**
IND BD. # 2		**	**	**	**	**	**
CTR. POND:							
WATER ELEV.	6952.1	6956.76	6959.18	6957.77	6955.06	6955.08	6955.83
IND BD. # 1		*** 57.5	Obscured	Destroyed	Destroyed	Destroyed	Destroyed
IND BD. # 2		56.7	59.20	57.70	**	**	**
IND BD. # 3		****	****	****	**	**	**
SOUTH POND:							
WATER ELEV.	6951.8	6950.68	6950.37	6950.34	6950.26	6950.20	6950.02
IND BD. # 1		**	**	**	**	**	**
IND BD. # 2		**	**	**	**	**	**
BORROW:	Run #6						
WATER ELEV.	6942.12	6954.05	6957.28	6957.46	6958.79	6958.77	6958.85
IND. BD. # 1		*****	*****	*****	*****	*****	*****
IND BD. # 2		*****	*****	*****	*****	*****	*****
IND BD. # 3		53.78	56.90	57.00	58.70	58.80	58.85
E. BORROW:							
WATER ELEV.					6933.22	6942.82	6947.17
IND. BD. # 1					33.10	42.90	47.50
IND. BD. # 2					**	**	**

* NO MEASUREMENT REQUIRED *** IN SANDS ***** UNDER WATER
** DRY **** REMOVED

[illegible]
[illegible] PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

MONITOR STATION ELEVATIONS

RUN NO.	3	20					
DATE	10-20-79	2-12-80					
MONITOR I.D. NUMBER	ELEVATION						
NORTH POND:							
WATER ELEV.	6954.6	6953.53					
IND. BD. #1		**					
IND. BD. #2		**					
CTR. POND:							
WATER ELEV.	6953.1	6955.84					
IND. BD. #1		Destroyed					
IND. BD. #2		**					
IND. BD. #3		**					
SOUTH POND:							
WATER ELEV.	6951.8	6950.00					
IND. BD. #1		**					
IND. BD. #2		**					
W. BORROW:	Run #6						
WATER ELEV.	6942.12	6958.56					
IND. BD. #1		*****					
IND. BD. #2		*****					
IND. BD. #3		58.70					
IND. BD. #4		**					
E. BORROW:							
WATER ELEV.		6949.77					
IND. BD. #1		*****					
IND. BD. #2		50.00	[illegible]				

* NO MEASUREMENT REQUIRED *** IN SANDS ***** UNDER WATER
** DRY **** REMOVED

SECTION D

Coordinates

8608 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

CONTROL DATA

Control Station	North	East	Elevation	Book/Page #	HM/HR		
HV-8	74879.0857	58109.5529	7002.700				
HV-9	74997.8898	60728.0114	7052.595				
UN-1	75142.4300	60625.4400	6968.539				
"J"	73784.8820	57211.5465	6958.80				
"K"	72951.0275	56465.3355	6941.78				
"L"	72192.9313	55641.5765	6915.41				
"A"	71448.7365	56964.1401	7025.098	#3 / pg.9	4.36/0.45		
"M"	72588.2574	58724.0426	6990.772	#3 / pg.11	4.63/0.45		
"N"	73479.8944	59697.6297	6996.271	#3 / pg.14	4.58/0.45		
"O"	74413.3084	59667.7009	7007.765	#3 / pg.12	4.76/0.45		
"P"	74743.1061	60645.8649	7048.262	#3 / pg.22	4.37/0.45		
"Q"	73600.32	60139.11	~~6970.16~~	#4 / pg.16			
BM-1			6958.870	#3 / pg.5			
BM-2			6970.328	#5 / pg.7			
BM-2A			6968.245	#11/ pg. 22			
BM-3C			6967.477	#7 / pg.3			
BM-4			6973.068	#3 / pg.30			
BM-4A			6973.018	#12/ pg.17			
BM-5			6970.842	#3 / pg.29			
BM-5A			6970.012	#11 / pg.23			
BM-6			~~6963.36~~	#7 / pg.9			
BM-6A			6965.10	SP2 / pg.24			
BM-7			6973.565	#12/ pg. 10			
BM-8			7009.638	#12/ pg. 8			
BM-9			7013.428	#12/ pg. 12			
BM-10			6980.218	#12/ pg. 14			
"Q"			6970.27*	SP3/ pg. 17			
BM-6			6963.03*	SP3/ pg. 17			

*BENCH MOVED, ELEVATION REESTABLISHED

8008 PENNSYLVANIA CIRCLE, NE
ALBUQUERQUE, NM 87110

CLIENT U.N.C. MILLING
PROJECT TAILINGS DAM
LOCATION CHURCH ROCK, NM
JOB NO. 79064

NOTE: ELEVATIONS SHOWN IN PARENTHESIS ARE FROM RUN #18

RUN NO.	1	1	1 (18)				
[illegible]	8-16-79	8-16-79	8-17-79	Sgl./Trpl.			
MONITOR ID NUMBER	North	East	Elevation	Height of Reflector	Depth of Sta Concrete/Bar		
N1	74050.6170	58493.4593	6968.967	0.21'/0.36'	4' / 8'		
N2	74195.6817	58629.2949	69.260	0.21'/0.36'	4.5' / 8'		
N3	74349.6125	58756.7309	68.830	0.21'/0.36'	4' / 8'		
N4	74502.7248	58885.3336	67.960	0.21'/0.36'	4' / 8'		
N5	74657.0965	59012.0635	69.360	0.21'/0.36'	4' / 8'		
N6	74810.6509	59140.1116	69.370	0.19'/0.34'	6' / 10'		
N7	74964.9859	59266.9679	69.887	0.18'/0.33'	6' / 10'		
N8	75118.4863	59394.9203	68.990	0.21'/0.36'	4' / 8'		
N9	75166.2337	59588.1225	70.427	0.21'/0.36'	5' / 8'		
N10	75164.3351	59787.7497	69.047	0.19'/0.34'	7' / 10'		
N11	75164.2676	59987.6674	68.057	0.18'/0.33'	6' / 10'		
N12	75163.5567	60087.9796	67.630	0.21'/0.36'	5' / 8'		
N13	75168.8476	60187.8037	68.103	0.21'/0.36'	5.5/ 8'		
N14	75167.7843	60287.9114	68.580	0.18'/0.33'	8' / 10'		
N15	75153.1887	60386.8324	68.090	0.18'/0.33'	8' / 12'		
N16	75109.6713	60476.6512	68.910	0.17'/0.32'	7.5' / 12'		
ND1	74421.1261	58980.1738	68.217	0.21'/0.36'	4.5' / 8'		
ND2	74382.8670	59071.8514	68.413	0.21'/0.36'	5' / 8'		
[illegible]	74304.2753	59255.4255	72.886	0.21'/0.36'	5' / 8'		
SD1	73914.2072	58483.2785	68.580	0.21'/0.36'	4' / 8'		
SD2	73840.6627	58549.7613	69.960	0.21'/0.36'	5' / 8'		
SD3	73672.1307	58663.1109	69.160	0.21'/0.36'	4' / 8'		
SD4	73502.6784	58764.5408	67.913	0.21'/0.36'	4' / 8'		
SD5	73328.8795	58862.6641	6968.723	0.21'/0.36'	4' / 8'		
S1	73830.8218	58272.4978	(67.152)				
S2	73760.6123	58202.1304	(66.708)				
S3	73619.2823	58058.8317	(67.062)				
S4	73479.7116	57917.9329	(66.985)				
S5	73342.3236	57777.2044	(66.555)				
S6	73183.2930	57652.1104	(65.332)				
S7	73027.6515	57526.9059	(65.078)				
S8	72873.2051	57401.4738	6964.980	0.21'/0.36'	4' / 8'		
S9	72717.2815	57276.6467	64.610	0.21'/0.36'	4' / 8'		
S10	72561.0944	57152.7013	63.690	0.21'/0.36'	4' / 8'		
S11	72405.0916	57027.2799	64.090	0.21'/0.36'	4' / 8'		
S12	72251.2639	56901.8319	64.417	0.18'/0.33'	6' / 10'		
S13	71605.7029	57206.5790	(63.645)				
S14	72078.4995	56800.1353	(65.768)				
[illegible]	73818.9014	59679.7637	(74.661)				
B2	74020.3316	59609.6531	(74.005)				
B3	73666.0868	60452.3507	(76.392)				
B4	73865.0085	60528.7523	(74.018)				
B5	73509.1235	61051.4926	(7010.658)				
B6	73808.8896	61050.5782	(7010.378)				
B7	74103.4697	61009.1626	(7009.641)				

LOCATION OF HALL HYDROSTATIC PRESSURE CELLS (HPC-7)

Piezometer Number	Location
PS-1	Not Yet Installed
PS-2	Not Yet Installed
PS-3	25' L of CL Sta. 13+00
PS-4	100' L of CL Sta. 13+00
PS-5	100' L of CL Sta. 19+00
PS-6	25' L of CL Sta. 19+00
PS-7	25' L of CL Sta. 24+50
PS-8	25' L of CL Sta. 30+50
PS-9	25' L of CL Sta. 39+00
PS-10	100' L of CL Sta. 45+00
PS-11	25' L of CL Sta. 45+00
PS-12	25' L of CL Sta. 50+00
PS-13	100' L of CL Sta. 56+60
PS-14	25' L of CL Sta. 56+60

PIEZOMETRIC READINGS

TAILINGS DAM EMBANKMENT

Console # 78

Date: 2-13-80

Observer: Don Armstrong

Piezometer Numbers	PS-1	PS-2	PS-3	PS-4	PS-5	PS-6	PS-7	PS-8	PS-9	PS-10	PS-11	PS-12	PS-13	PS-14
Serial Number	2251	2253	2247	2250	2254	2260	2261	2264	2268	2269	2270	2271	2279	2300
Gauge Reading	NOT installed	NOT installed	27	53	29	31	10	10	16	21	18	20	18	20
Indicated Pressure (PSI)			1.6	3.2	1.7	1.9	.6	.6	1	1.3	1.1	1.2	1.1	1.2
Δ P (PSI)			2.1	~~1.7~~ 2.4	1.8	1.6	.4	.6	.8	1	.9	1.	1.1	1.0
Actual Pressure (PSI)			0	~~.5~~ .3	0	.3	.2	0	.2	.3	.2	.2	0	.2
Pressure Cell Elevation (FT)			6927.5	6922.5	6923.6	6928.6	6929.0	6935.4	6947.6	6959.6	6962.6	6957.0	6962.0	6965.0
Piezometric Pressure (FT)			0	~~1.15~~ .7	0	.7	.5	0	.5	.7	.5	.5	0	.5
Piezometric Elevation (FT)			6927.5	6923.2	6923.6	6929.3	6929.5	6935.4	6948.1	6961.3	6963.1	6957.5	6962.0	6965.5

Indicated Pressure = Gauge Reading x 0.06

Piezometric Pressure = Actual Pressure x 2.307

Δ P - Taken from Calibration Graph

REMARKS: P-35 P-4 Still laying down

flow-12

2-Miller, G. Swanquist, R. Barth

FREE BOARD GAGE RECORD

DAILY SUMMARY

1980

Feb		South 1	South 2	Central 3	Central 4	Pit I 5	North 6	North 7	Pit II 8	
3	1	50.9	50.7	—	57.7	58.8	54.0	53.9	44.6	Maldonado
	2	50.9	50.7	—	<57.0	58.9	54.0	53.9	44.6	Romero
	3	50.9	50.7	—	56.7	58.9	54.0	53.9	44.9	Perea
4	1	50.9	50.7	—	57.0	58.8	54.0	53.9	7.3	Maldonado
	2	50.9	50.7	—	<57.0	58.9½	54.0	53.9	45.4	Romero
	3	50.9	50.7	—	56.8	58.9	54.0	53.9	45.7	Perea
5	1	50.9	50.7	—	<57.0	<58.9	54.0	53.9	45.1	Bearquiver
	2	50.9	50.7	—	57.0	58.9	54.0	53.9	46.0	Romero
	3	50.9	50.7	—	56.7	58.9	54.0	53.9	46.3	Perea
6	1	50.9	50.7	—	56.9	58.9	54.0	53.9	46.7	Bearquiver
	2	50.9	50.7	—	<57.0	58.9	54.0	53.9	47.0	Romero
	3	50.9	50.7	—	56.7	58.9	54.0	53.9	47.2	Perea
7	1	50.9	50.7	—	<57.0	58.9	<54.0	53.9	47.5	Bearquiver
	2	<50.9	<50.7	—	57.0	58.9	<54.0	53.9	47.4	Romero
	3	50.9	50.7	—	57.0	58.8	54.0	53.9	47.8	Maldonado
8	1	50.9	50.7	—	<57.0	<59.0	<54.0	53.9	→ Repairing Gage #8	Bearquiver
	2	50.9	50.7	—	<57.0	58.9	54.0	53.9	48.3	Romero
	3	50.9	50.7	—	<57.0	58.8	54.0	53.9	48.7	Maldonado
9	1	50.9	50.7	—	57.0	58.8	54.0	53.9	48.9	Bearquiver
	2	50.9	50.7	—	57.0	58.9	54.0	53.9	49.0	Romero
	3	50.9	50.7	—	57.0	58.8	54.0	53.9	49.3	Maldonado
10	1	50.9	50.7	—	<57.0	<59.0	54.0	53.9	49.4	Bearquiver
	2	50.9	50.7	-	57.0	58.9	54.0	53.9	49.5	Perea
	3	50.9	50.7	-	57.0	58.8	54.0	53.9	49.6	Maldonado
11	1	50.9	50.7	—	57.0	58.9	54.0	53.9	49.7	Bearquiver
	2	50.9	50.7	—	57.0	58.9	<54.0	<53.9	49.7	Sekiya
	3	50.9	50.7	—	57.0	58.8	<54.0	<53.9	49.9	Maldonado
12	1	50.9	50.7	—	57.0	58.9	<54.0	<53.9	49.9	Romero
	2	50.9	50.7	-	57.0	58.9	<54.0	<53.9	50.0	Sekiya
	3	50.9	50.7	—	57.0	58.8	<54.0	<53.9	50.2	Maldonado
13	1	<50.9	<50.7	--	57.0	58.7	<54.0	<53.9	50.1	Romero
	2	<50.9	<50.7	—	57.0	58.7	<54.0	<53.9	50.2	Perea
	3	<50.9	<50.7	—	57.0	58.8	<54.0	<53.9	50.29	Maldonado

Note: to all readings add 6,900 ft for true elevation.

FREE BOARD GAGE RECORD
DAILY SUMMARY

1980

Date	Time	South 1	South 2	Central 3	Central 4	Central 5	North 6	North 7	Pit II 8	
Feb 14	1	<50.9	<50.7	—	57.0	58.8	<54.0	<53.9	50.3	Romero
	2	<50.9	<50.7	—	57.0	58.7	<54.0	<53.9	50.4	Perea
	3	<50.9	<50.7	—	<57.0	58.9	<54.0	<53.9	50.5	Bearquiver
15	1	<50.9	<50.7	—	<57.0	58.8	<54.0	<53.9	50.6	Romero
	2	50.9	50.7	—	<57.0	58.7	54.0	53.9	50.8	Sekiya
	3	50.9	50.7	—	57.0	58.9	54.0	53.9	50.9	Bearquiver
16	1	50.9	50.7	—	<57.0	58.9	54.0	53.9	51.1	Romero
	2	50.9	50.7	—	?	58.8	54.0	53.9	?	Maldonado
	3	50.9	50.7	—	57.0	58.9	<54.0	53.9	51.5	Bearquiver
17	1	50.9	50.7	—	57.0	58.9	<54.0	53.9	51.6	Romero
	2									
	3									
18	1									
	2									
	3									
19	1									
	2									
	3									
20	1									
	2									
	3									
21	1									
	2									
	3									
22	1									
	2									
	3									
23	1									
	2									
	3									
24	1									
	2									
	3									

Note: To all readings add 6,900 ft for true elevation.

ANALYSIS REPORT

Sample Identification / Sampling Date 2-12-80	Well 201	Well 202	Well 203
Aluminum (mg/l)			Well Dry
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Cadium (mg/l)			
Chloride (mg/l)	21.5	71.3	
Chromium (mg/l)			
Cobalt (mg/l)			
Conductivity (μmhos/cm) 25°C	2,100	5,100	
Salinity (parts per thousand)	1.5	4.0	
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Molybdenum (mg/l)			
Nitrogen (Ammonia) (mg/l)			
Nitrogen (Nitrate) (mg/l)			
Nickel (mg/l)			
pH 25°C	6:42	3.49	
Selenium (mg/l)			
Silver (mg/l)			
Sodium (mg/l)			
Sulfate (mg/l)	2,114.5	6,828.4	
Total Dissolved Solids (mg/l)	3,681.1	12,514.3	
Total Mercury (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

Sample Identification / Sampling Date 2-12-80	Well 204	Well 205	
Aluminum (mg/l)		Well Dry	
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Cadium (mg/l)			
Chloride (mg/l)	26.7		
Chromium (mg/l)			
Cobalt (mg/l)			
Conductivity (μmhos/cm) 25°C	800		
Salinity (parts per thousand)	0.25		
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Molybdenum (mg/l)			
Nitrogen (Ammonia) (mg/l)			
Nitrogen (Nitrate) (mg/l)			
Nickel (mg/l)			
pH 25°C	7.09		
Selenium (mg/l)			
Silver (mg/l)			
Sodium (mg/l)			
Sulfate (mg/l)	310.2		
Total Dissolved Solids (mg/l)	764.4		
Total Mercury (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

Union Nuclear Corporation
A UNC RESOURCES Company
Church Rock Operations
PO Drawer 90
Gallup New Mexico 87301
Telephone 505 722-6651

Memorandum

DATE: 10 Feb 80

CC: Bob Booth (SH&B)
Mill File 2.02.10

TO: Tom Bailey, Tom Hill

FROM: G. A. Swanquist

SUBJECT: Daily Inspection - Starter Dam, North & South Cross Dikes

Inspection Conducted by: G A Swanquist

Time: From 1:00 pm A.M./P.M. TO 2:00 pm A.M./P.M.

Check as applicable

	1. Seepage		2. Cracks		3. Settlement	
	YES	NO	YES	NO	YES	NO
1. Starter Dam		✓		✓		✓
2. North Cross Dike		✓		✓		✓
3. South Cross Dike		✓		✓		✓

Description and qualifying statement to each "Yes" mark:

General Comments: Shut down mill @ 12:15 pm. Water begining to encroach on sand beach South east end of center cross dike. Pumping out excess water with temporary pump setup.

UNC MINING AND MILLING

UNC

Division of United Nuclear Corporation
A UNC RESOURCES Company

Church Rock Operations
P.O. Drawer 00

Gallup, New Mexico 87301
Telephone 505 722-6551

Memorandum

DATE: 11 Feb 81

CC: Bob Booth (SH&B)
Mill File 2.02.10

TO: Tom Bailey, Tom Hill

FROM: G. A. Swanquist

SUBJECT: Daily Inspection - Starter Dam, North & South Cross Dikes

Inspection Conducted by: G. A. Swanquist

Time: From 11:21 A.M. ~~P.M.~~ TO 11:15 A.M. ~~P.M.~~

Check as applicable

	1. Seepage		2. Cracks		3. Settlement	
	YES	NO	YES	NO	YES	NO
1. Starter Dam		✓		✓		✓
2. North Cross Dike		✓		✓		✓
3. South Cross Dike		✓		✓		✓

Description and qualifying statement to each "Yes" mark:

General Comments: Notified shutdown of yesterday to EID J. Stewart.

Shut down continuing through today

UNC MINING AND MILLING

UNC

Division of United Nuclear Corporation
A UNC RESOURCES Company

Church Rock Operations
PO Drawer 00

Gallup New Mexico 87301
Telephone 505 722-6651

Memorandum

DATE: 12 Feb 1980

CC: Bob Booth (SH&B)
Mill File 2.02.10

TO: D. D. Turberville, J. Abbiss, T. M. Kilroy

FROM: G. A. Swanquist

SUBJECT: Daily Inspection - Starter Dam, North & South Cross Dikes

Inspection Conducted by: G. A. Swanquist

Time: From 10:15 A.M./[redacted]. TO 11:30 A.M./[redacted].

Check as applicable

	1. Seepage		2. Cracks		3. Settlement	
	YES	NO	YES	NO	YES	NO
1. Starter Dam		✓		✓		✓
2. North Cross Dike		✓		✓		✓
3. South Cross Dike		✓		✓		✓

Description and qualifying statement to each "Yes" mark:

General Comments: Started mill @ 5pm — Water pumped out. (See inspection of 10 Feb)

nc
Subsidiary of Gulf Oil Corporation
A UNC RESOURCES Company
Church Rock Operations
PO Drawer 90
Gallup New Mexico 87301
Telephone 505 722-6651

Memorandum

DATE: 13 Feb 80

CC: Bob Booth (SH&B)
Mill File 2.02.10

TO: Tom Bailey, Tom Hill

FROM: G. A. Swanquist

SUBJECT: Daily Inspection - Starter Dam, North & South Cross Dikes

Inspection Conducted by: G. A. Swanquist

Time: From 4:00 pm A.M./P.M. TO 4:30 pm A.M./P.M.

Check as applicable

	1. Seepage		2. Cracks		3. Settlement	
	YES	NO	YES	NO	YES	NO
1. Starter Dam		✓		✓		✓
2. North Cross Dike		✓		✓		✓
3. South Cross Dike		✓		✓		✓

Description and qualifying statement to each "Yes" mark:

General Comments:

Division of United Nuclear Corporation
UNC RESOURCES Company
Church Rock Operations
PO Drawer 90
Gallup New Mexico 87301
Telephone 505 722-6651

Memorandum

DATE: 14 Feb 1980

CC: Bob Booth (SH&B)
Mill File 2.02.10

TO: Tom Bailey, Tom Hill

FROM: G. A. Swanquist

SUBJECT: Daily Inspection - Starter Dam, North & South Cross Dikes

Inspection Conducted by: G. A. Swanquist

Time: From 7:30 A.M./[redacted]. TO 8:15 A.M./[redacted].

Check as applicable

	1. Seepage		2. Cracks		3. Settlement	
	YES	NO	YES	NO	YES	NO
1. Starter Dam		✓		✓		✓
2. North Cross Dike		✓		✓		✓
3. South Cross Dike		✓		✓		✓

Description and qualifying statement to each "Yes" mark:

General Comments:

United Nuclear Corporation
A UNC RESOURCES Company
Church Rock Operations
PO Drawer 00
Gallup New Mexico 87301
Telephone 505 722-6651

Memorandum

DATE: 15 Feb 1980

CC: Bob Booth (SH&B)
Mill File 2.02.10

TO: Tom Bailey, Tom Hill

FROM: G. A. Swanquist

SUBJECT: Daily Inspection - Starter Dam, North & South Cross Dikes

Inspection Conducted by: G. A. Swanquist

Time: From 7:30 A.M./[redacted]. TO 8:40 A.M./[redacted].

Check as applicable

	1. Seepage		2. Cracks		3. Settlement	
	YES	NO	YES	NO	YES	NO
1. Starter Dam		✓		✓		✓
2. North Cross Dike		✓		✓		✓
3. South Cross Dike		✓		✓		✓

Description and qualifying statement to each "Yes" mark:

General Comments:

Division of United Nuclear Corporation
A UNC RESOURCES Company
Church Rock Operations
PO Drawer 90
Gallup New Mexico 87301
Telephone 505 722-6651

Memorandum

DATE: 16 Feb 80

CC: Bob Booth (SH&B)
Mill File 2.02.10

TO: Tom Bailey, Tom Hill

FROM: G. A. Swanquist

SUBJECT: Daily Inspection - Starter Dam, North & South Cross Dikes

Inspection Conducted by: G A Swanquist

Time: From 8 00 A.M./P.M. TO 8 30 A.M./P.M.

Check as applicable

	1. Seepage		2. Cracks		3. Settlement	
	YES	NO	YES	NO	YES	NO
1. Starter Dam		✓		✓		✓
2. North Cross Dike		✓		✓		✓
3. South Cross Dike		✓		✓		✓

Description and qualifying statement to each "Yes" mark:

General Comments:

DATE	READING BEGINNING	READING ADDED	READING ENDING	INDICATED EVAPORATION	PRECIP-ITATION	TRUE EVAPOR	NUMBER OF DAYS	EVAPOR PER DAY
2-4	3.634	none						
2-7					.12			
2-8					.04			
2-11			Frozen no readings possible- Pond not frozen					
2-15					.80			
2-16					.29			
2-17					.18			
2-18			4.079	-.445	1.43	0.985	14	.070

ALL READINGS IN INCHES

Method of Calculation:

#4 Indicated evaporation- 1 + 2 - 3 = 4

#6 True evaporation- 4 + 5 = 6

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