

# Umetco Minerals Corporation

40-8681  
X61176



WHITE MESA MILL • P. O. BOX 669 • BLANDING, UTAH 84511  
☎ (801) 878-2221

0400868185DR

September 3, 1993

RETURN ORIGINAL TO PDR, HQ.



93 SEP -7 P 3:17  
URFO  
RECEIVED

Mr. Ramon E. Hall, Director  
United States Nuclear Regulatory Commission  
Region IV  
Uranium Recovery Field Office  
Box 25325  
Denver, Colorado 80225

Re: Umetco Minerals Corporation  
SUA-1358: Docket No. 40.8681  
White Mesa Mill, Blanding, Utah  
License Condition 26

Dear Mr. Hall:

Attached is the yearly Technical Evaluation of the tailings Retention System at the White Mesa Mill. The mill is located 5 miles south of Blanding, Utah and is operated by Umetco Minerals Corporation

If you should have any questions please call.

Sincerely,

S. L. Schierman  
Department Head HS/EA

100173

9312210379 930903  
PDR ADOCK 04008681  
PDR

DESIGNATED ORIGINAL

Certified By *Mary C. Dood*

*DF02*  
93-0662

# Umetco Minerals Corporation

---



P.O. BOX 1029  
GRAND JUNCTION, COLORADO 81502  
☎ (303) 245-3700

August 31, 1993

Mr. W. W. Brice  
Maintenance Superintendent  
Umetco Minerals Corporation  
P. O. Box 669  
Blanding, Utah 84511

Dear Mr. Brice:

Re: Annual Technical Evaluation of White Mesa Mill Tailings Management System  
for Period from July 31, 1992 through August 25, 1993  
Materials License No. SUA-1358

The annual technical evaluation of the White Mesa mill tailings management system was conducted in Blanding, Utah, on August 25, 1993. The evaluation was performed in accordance with USNRC License No. SUA 1358 and the White Mesa Procedures Manual, Section 3.1, Revision 4, dated February 1991. Other documents utilized as reference material are included in the selected bibliography of this summary report. The purpose of this inspection was to evaluate the tailings management system and procedures for the period from July 31, 1992 through August 25, 1993. The previous inspection covered the period from July 31, 1991 to July 31, 1992. The following paragraphs summarize the findings of the annual technical evaluation.

## Evaluation Format

The following format was used in the evaluation of the mill tailings management system.

- Review of the tailings management system procedures and interviews with site personnel and the site manager.
- Review of daily, monthly, quarterly inspection reports.

- Review of maintenance activities affecting the tailings management system.
- Inspection of the embankments, diversion channels, tailings transport system, and ancillary features of the system.
- Inspection of land immediately surrounding the tailings facility.

### General

The White Mesa mill has been on standby status since the last annual technical evaluation and no effluents have been discharged from the mill to the tailings system. However, fluids have been transferred between cells and fresh water added to Cells 1I, 3 and 4A. Adding fresh water to the cells to raise the pH was done to help preserve wildlife. Likewise, most of the fluids have been placed in Cell 3 to minimize surface area exposure to wildlife.

Scott Schierman, the White Mesa Radiation Protection Officer/ Environmental Coordinator, has the direct responsibility to see that the mill tailings management system is being operated in accordance with Materials License SUA-1358 and White Mesa tailings management procedures. Mr. Schierman has performed the training of inspection personnel and personally inspects the tailings and ancillary facilities on a weekly, monthly and quarterly basis in accordance with License Condition 26.

Umetco had an extensive groundwater study conducted at the facility which was reported by the writer to the NRC in February, 1993. The study shows that past uranium recovery operations have not impacted the uppermost perched groundwater system at the facility. Umetco has an on-going dust suppression program and has covered portions of tailings Cells 2 and 3. Aerial photography of the mill site and tailings was conducted on August 23, 1993. Mapping will be available to show areas of tailings covered.

## Records

Tailings inspection records are being kept on a daily, monthly and quarterly basis. The inspections are summarized in monthly documents for tracking purposes. Copies of selected records are enclosed for review. The records inspected verify activities conducted on the tailings management system.

## Tailings and Liquids Disposal Cells

### Cell II

Cell II is used only to evaporate liquids and is not used for tailings disposal. No process solutions were discharged into Cell II during the period covered by this technical evaluation. Effluent in this cell was, however, pumped into Cells 3 and 4 during this period. Fresh water was also pumped into Cell II from Recapture Reservoir to dilute the high TDS solution and raise the pH of the fluids. The pond was operated well below the allowable freeboard level during the period from July 31, 1992 to August 25, 1993 and was almost dry on the date of the annual inspection.

The daily tailings inspection by White Mesa personnel (January 9, 1993) detected an erosion channel on the liner cover at the east end of Cell II. Creation of this erosion channel on the inside of Cell II was due to runoff of mill drainage waters that had accumulated in the area of the covered old fly ash pond. The exposed liner ripped which covered an area of approximately 20 square feet. The NRC was notified of the situation and the liner was repaired the latter part of January 1993 (see attached letter.) The repaired liner was then covered with earth material. Inspection of daily records and current observations by the writer indicate the repairs were adequate and the liner/cover is now performing satisfactorily.



### Cell 2

Cell 2 is at capacity (except for future final grading in places); therefore, no pumping of fluids into the cell occurred during the review period. Fluids were pumped from the surface pool and the slimes drain of this cell into Cell 3 during the year.

Four feet of random fill cover have been placed on Cell 2 beginning August 24, 1992 and ending in October 1992. Daily inspection reports and attached sketches show the approximate extent of the random fill cover over this cell.

The cover was placed to prevent blowing of tailings and to reduce radon emissions from the pile under the ALARA program. The covering of portions of the cells with random fill also accomplished a preliminary step in the reclamation of the cell. Inspection of Cell 2 on August 25, 1993 indicated no items of concern.

### Cell 3

No effluent discharge occurred from the mill in Cell 3 as the facility did not operate during the review period. However, fluids from Cells 1 and 2 were pumped into Cell 3, as well as fresh water from Recapture Reservoir to adjust the pH.

Examination of records and conversations with inspection personnel indicate prairie dogs continue to be a problem with Cell 3. An aggressive extermination program is being implemented to control the rodents. When found all prairie dog holes are further excavated and the synthetic liner inspected for damage. If no damage has occurred to the liner, the holes are then filled with compacted soil. To date, no damage to the synthetic liner has occurred from burrowing animals.

The liner in Cell 3 has experienced exposure in several locations during the review period. These liner exposures have been repaired as soon as practical (weather conditions permitting).

Portions of Cell 3 (see attached sketches) have also been covered with four feet of random fill to prevent tailings blowing and to reduce radon emissions. Bales of straw have also been placed on Cell 3 to reduce blowing of surface material. Inspection of the cell on August 25, 1993 indicates the cell is functioning properly and all repairs were made satisfactorily. No prairie dog holes were found in the cell at the time of the annual inspection.

License Condition 51 dictates that the maximum pond elevation shall not exceed 5603.0 msl. Records and conversations indicate that this elevation has not been exceeded throughout the review period. The present fluid elevation is at 5602.5 feet which is six inches within the maximum pond elevation limit. Plant personnel are monitoring the level daily to maintain the proper freeboard.

#### Cell 4A

The fluids in Cell 4A presently cover only a very small portion of the bottom of the cell. The exterior embankment was inspected for signs of distress, instability, erosion, burrowing animals and seepage. None of these conditions were observed at the time of inspection and the embankment is in good condition. Vegetative cover on the exterior embankment is sparse to moderate. Liquids were pumped from Cell 11 into Cell 4 during the evaluation period as well as fresh water from Recapture Reservoir. The purpose of pumping fresh water into the cell was to raise the pH of the liquids in the cell.

The defects observed in the synthetic liner during the last technical evaluation were repaired by the lining contractor (Crest Liners, Inc.) in June, July and August, 1993. A portion of the liner in the northeast corner of the pond had to be replaced due to wind damage during repair construction. The contractor completed repair operations on August 20, 1993. Measurements are continuing to be taken in the leak detection system. The average rate into the leak detection system over the past year has averaged 0.011 gallon per minute.

### Movement and Settlement Data

Four settlement plates have been installed on Cell 2 tailings to monitor consolidation due to fill placement (see attached figures.) Three plates were installed to evaluate settlement with respect to interim and final reclamation covers. The settlement plate placed on Cell 4A shows virtually no settlement since the last technical evaluation.

There is a problem with the March 22, 1993, settlement readings on all settlement plates. The readings taken on this date were obviously "outliers" and were not resurveyed.

Movement monuments on Cells 3 and 4A were surveyed by Western Engineers on August 11, 1993. (See attached letter.) This survey shows that only insignificant movements have occurred.

### Diversion Channels

Records on the diversion channels indicate they were maintained during the evaluation period and were in good shape at the time of the inspection.

### Tailings Slurry Transport System

The mill has not operated during the evaluation period; therefore, this system was not used.

### Hydraulic and Electrical/Mechanical

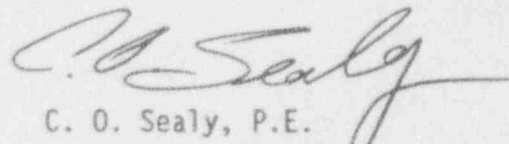
The only features still operational involving hydraulic, mechanical, or electrical systems are the leak detection and slime drain pumps and piping and transfer pipelines. Procedures are available for handling piping ruptures or other piping deficiencies. The electrical system is maintained by a licensed electrician. The pumps are the only mechanical features and are maintained as needed.

## Conclusions and Recommendations

The tailings management system at the Blanding mill has been operating as designed during the period from July 31, 1992 through August 25, 1993. Maintenance of the system was performed as required. Repairs to the lining system are well documented, inspection records are complete and are in good order. The following items need to be considered in the future operation of the system:

- (1) All survey readings on settlement plates, monuments, etc., should be reviewed immediately upon generation of data. Any measurement that is suspect or obviously an "outlier" should be resurveyed immediately.
- (2) Consideration should be given to lowering the pool level in Cell 3 during the winter months.
- (3) The area around the old fly ash pond should be re-evaluated to determine if additional regrading will minimize or control runoff into Cell 11.
- (4) The prairie dog control program should continue to be pursued aggressively.
- (5) The summary sheets of inspections are an excellent management tool. All summary sheets have been reviewed by the site manager. A signature block for the preparer/reviewer of this document should be on each respective sheet.

After reviewing this report, if you have any questions, please do not hesitate to contact the writer.

  
C. O. Sealy, P.E.  
Manager of Engineering

COS/sw

cc: Messrs. J. S. Hamrick  
S. L. Schierman  
R. A. Van Horn

### Selected References

The following documents were used or referenced in the annual technical evaluation of the mill tailings management system:

- U.S. NRC Materials License SUA-1358.
- "Site Selection and Design Study, Tailings Retention and Mill Facilities" by Dames & Moore, May 15, 1978.
- "Environmental Report, White Mesa Uranium Project, San Juan County, Utah".
- "Engineer's Report, Second Phase Design - Cell 3 Tailings Management System, White Mesa Uranium Project, Blanding, Utah" by D'Appolonia Consulting Engineers, February 1982.
- "Construction Report, Second Phase, Tailings Management System, White Mesa Uranium Project" by Energy Fuels Nuclear, Inc., March 1, 1983.
- "Cell 4 Design - Tailings Management System, White Mesa Project, Blanding, Utah" by Umetco Minerals Corporation, August, 1988.
- "Design, Construction and Inspection of Embankment Retention Systems for Uranium Mills", October, 1980, Nuclear Regulatory Commission Guideline 3.11.1.
- "Safety Evaluations of Existing Dams", Bureau of Reclamation.
- "White Mesa Mill - Drainage Report for Submittal to NRC" dated January, 1990.
- "White Mesa Procedures Manual - Tailings Management System", Umetco, Revision 4, February 1991.
- "Annual Technical Review of White Mesa Tailings Management System", August 24, 1992.
- "Groundwater Study, White Mesa Mill, Blanding, Utah, Umetco Minerals Corporation, February 1993.

# Umetco Minerals Corporation



WHITE MESA MILL • P. O. BOX 868 • BLANDING, UTAH 84511  
☎ (801) 678-2221

March 22, 1993

Mr. Ramon E. Hall, Director  
U. S. Nuclear regulatory Commission  
Region IV  
Uranium Recovery Field Office  
Box 25325  
Denver, CO 80225

Re: Umetco Minerals Corporation  
SUA-1358  
White Mesa Mill, Utah

Attention: Dana Ward

Dear Mr. Hall:

This letter is to confirm our discussions with your staff concerning our plans to transfer the liquor from Evaporation Cell 1 to Tailings Cell 3. Approximately 180 acre feet of solution will be transferred and Cell 1 will be dry. This will reduce the total pool surface area by sixty acres and should significantly reduce our problems with migratory water fowl using the ponds.

The entire pipeline will be located within the tailings disposal area. The pipeline is heavy duty high density polyethylene and has been pressure tested at two times working pressure. Normal operating pressure is 27 psi and the line was tested at the maximum pressure the pump will produce or 58 psi. All mechanical joints have been eliminated and replaced with fusion welded joints. The pipeline will be inspected every two hours during operation and documented.

Cell 1 is covered with approximately two feet of crystals and past experience indicates we will not experience any problems with dusting from this material after the cell is emptied. This crystal growth was observed during the recent NRC inspection of this facility. The area will be continually monitored and if any problems are noted, corrective action will be taken.

Transfer of solution to Cell 3 will cover a major portion of the sandy beaches that we do not anticipate covering this year. These beaches are below final elevation and additional tailings will be added to these areas during future operations.

~~9305120172~~

2pp



As discussed during the recent NRC inspection of our facility we expect to cover all tailings areas possible that are at final elevation. In addition to this work we will continue painting and upgrading of the White Mesa Mill in preparation for future operations.

We would like to start transferring solutions as soon as possible and would appreciate your permission to proceed if concerns have been adequately addressed. If you have any additional questions please call.

Sincerely yours,

*Wallace Brice*

W. W. Brice  
Maintenance Superintendent

# Umetco Minerals Corporation



WHITE MESA MILL • P. O. BOX 668 • BLANDING, UTAH 84511  
☎ (801) 878-2221

January 19, 1993

Mr. Ramon E. Hall, Director  
United States Nuclear Regulatory Commission  
Region IV  
Uranium Recovery Field Office  
Box 25325  
Denver, Colorado 80225

Dear Mr. Hall:

As requested by Dana Ward of your office the following is a brief history of the moisture received during December 1992, and January 1993, and the resulting damage to the liner in Cell 1I with actions taken to date to minimize any further damage from occurring.

During December 1992, the White Mesa Mill received 2.56 inches of moisture in the form of snow. Additionally from the period of 1-7-93 to 1-20-93, we have received in the form of rain and snow an additional 5.45 inches of moisture for a total of 8.01 inches of moisture for the two month period.

On January 9, 1993, during the daily tailings inspection the shifter noticed an erosion channel at the east end of Cell 1I. Upon inspection it was noticed that the liner had been damaged. Butch Brice was notified, inspected the area and notified John Hamrick of the situation. Efforts to minimize the amount of water that would be channeled into this area were made as a measure to reduce any further liner damage.

On January 11, 1993 Pete Garcia was informed of the liner damage that occurred at the east end of Cell 1I. The observed damage to the liner is above the current freeboard levels for Cell 1I and poses no additional problems. As of 1-26-93, the current freeboard level in Cell 1I is 5.45 feet.

The liner damage was a result of an erosion channel on the inside of Cell 1I dike from mill drainage waters that have accumulated in the area of the old fly ash pond. The exposed liner ripped and fractured which appears to have damaged approximately 20 square feet of liner along the east inside bank of Cell 1I.

~~9303260043~~ 2PP

Since discussions with Pete on 1-11-93, we have received an additional 2.23 inches of moisture. With the additional moisture the size of the pool at the old fly ash pond increased and the erosion channel was backfilled to prevent any water from going under the liner and minimizing additional liner damage.

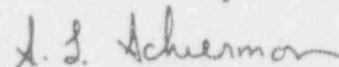
While inspecting the area that had been backfilled an additional area where water was overflowing was discovered under the crusted snow. To minimize erosion to the dike fiberglass troughs were used to extend the water discharge closer to the existing water level.

When weather permits the area where the liner damage has occurred will have the backfill remove and liner repairs made. The areas where erosion has occurred will result in an inspection of the liner if exposed, and the area backfilled or repaired if necessary.

Enclosed is a drawing of the approximate area where the liner damage occurred in Cell 11.

If you should have any questions in regards to this matter please call at 801-678-2221.

Sincerely,

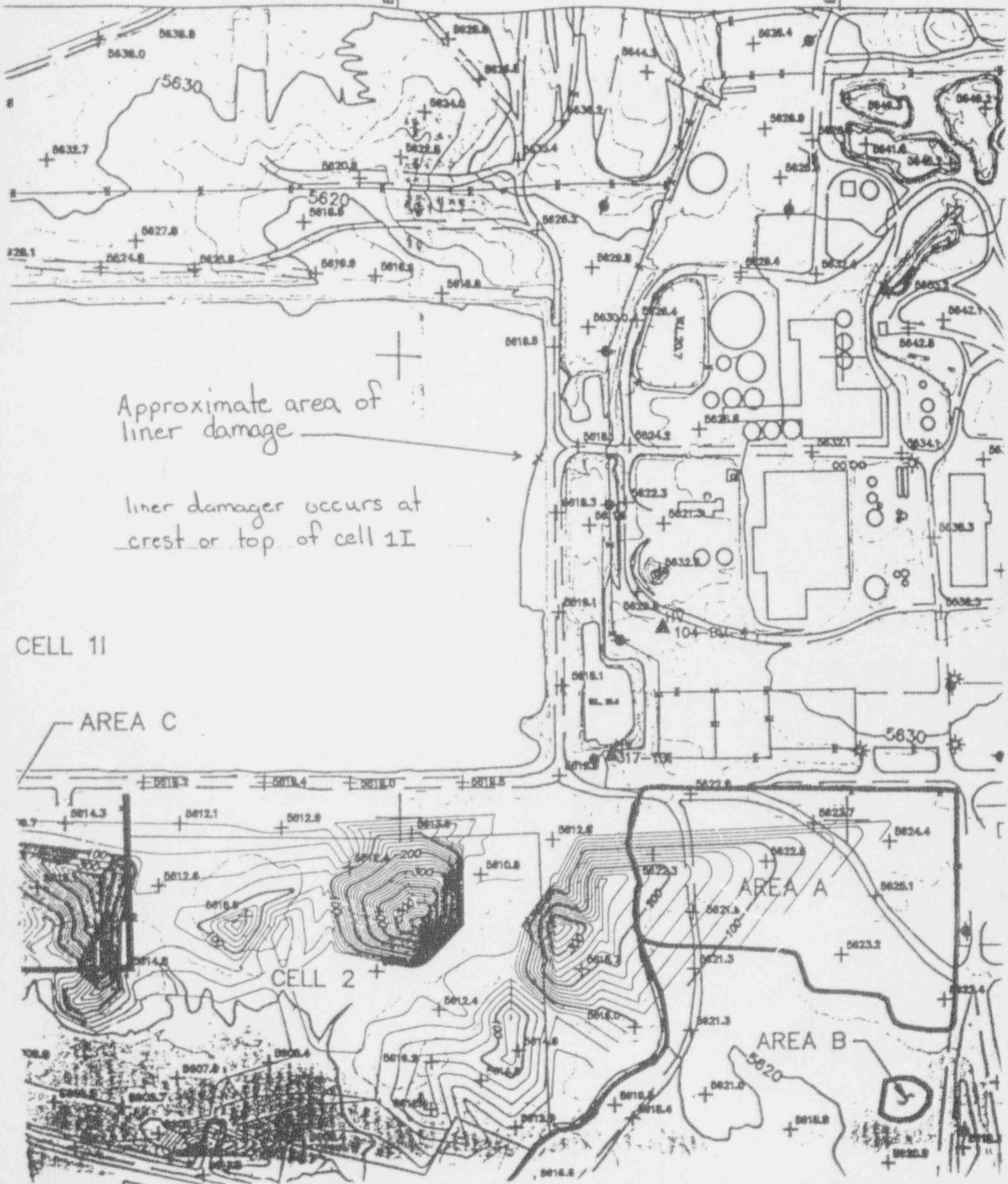


S. L. Schierman  
Radiation Safety Officer

cc: Messrs. W. W. Brice  
J. S. Hamrick  
G. G. Ray  
R. A. Van Horn  
S. L. Schierman  
M. D. Vincelette  
G. F. Richards

E 2,579,000

E 2,590,000



Approximate area of  
liner damage

liner damage occurs at  
crest or top of cell 11

CELL 11

AREA C

CELL 2

AREA A

AREA B



CONSULTING ENGINEERS / LAND SURVEYORS

2150 Hwy. 6 & 50, Grand Junction, CO 81505-9422 • 303/242-5202 • FAX 242-1672

August 20, 1993  
Umetco Minerals Corp.  
Attn. Mr. Scot Schierman  
P.O. Box 669  
Blanding, Utah 84511

Dear Scot:

I have enclosed two copies of the Cell 3 and Cell 4 1993 Movement Monitor results for your review, filing and distribution. The survey was conducted by me on August 11 and 12, 1993. Based on comparison with previous data, no significant movement was observed.

I hope that the data will be useful and that you will call me should you require any clarification.

Sincerely,

A handwritten signature in cursive script that reads 'Richard A. Mason'.

Richard A. Mason  
PLS 6035

WHITE MESA MILL MOVEMENT MONITOR RESULTS  
AUG. 11,1993 CELL 3 BLANDING UTAH

MM NO.	D/S	U/S	ELEV.
302	CONTROL		5607.81
303		0.07	5607.88
304	0.00	0.00	5607.89
305		0.03	5607.98
306		0.03	5607.98
307		0.02	5607.60
308		0.05	5607.62
309		0.04	5607.63
310	0.04		5607.66
311	0.03		5607.88
312		0.05	5607.88
313		0.05	5607.94
314		0.06	5608.08
315		0.13	5608.10
316		0.10	5607.97
317		0.06	5607.67
318	0.00	0.00	5607.70
319		0.12	5607.67
320		0.08	5608.08
321		0.09	5608.06
322		0.07	5608.12
323		0.14	5607.99
324		0.15	5607.99
325		0.11	5607.52
326		0.11	5607.73
327		0.10	5607.96
328		0.07	5608.08
329		0.15	5608.01
330		0.06	5607.72
331		0.06	5607.51
332		0.08	5608.01
333	CONTROL		5607.98

NOTES: R.L JOHNSON PT.#102=WEI PT.#302 etc.  
POINTS 306,307 REESTABLISHED AFTER BEING DESTROYED(1992)

WHITE MESA MILL MOVEMENT MONITOR RESULTS  
AUG. 11,1993 CELL4 S.DIKE BLANDING UTAH

MM NO.	D/S	U/S	ELEV.
400	CONTROL		5584.87
401	0.01		5596.91
402	0.03		5598.20
403	0.06		5598.26
404	0.04		5598.21
405	0.00	0.00	5598.17
406	0.01		5598.14
407	0.01		5598.25



408	0.03		5598.12
409	0.02		5598.12
410	0.01		5598.15
411	0.00	0.00	5597.85
412	0.03		5597.82
413	0.03		5597.88
414	0.04		5597.87
415	0.01		5598.04
416	0.03		5598.08
417	0.00	0.00	5598.16
418		0.01	5598.01
419	0.00	0.00	5597.75
420	0.00	0.00	5598.08
421	0.00	0.00	5598.17
422	0.00	0.00	5598.09
423	0.00	0.00	5598.06
424	0.05		5598.20
425	0.00	0.00	5598.34
426	0.04		5598.56
427	0.00	0.00	5598.86
428	CONTROL		5596.30

WHITE MESA MILL MOVEMENT MONITOR RESULTS  
AUG. 11, 1993 CELL4 WEST DIKE BLANDING UTAH

MM NO.	WEST	EAST	ELEV.
429	CONTROL		5562.11
430	CONTROL		5566.54
431	CONTROL		5596.93
432	0.02		5597.42
433	0.03		5597.99
434	0.00	0.00	5598.58
435	0.00	0.00	5598.56
436	0.06		5598.81
437	0.07		5599.88
438	0.09		5600.56
439	0.10		5600.76
440	0.00	0.00	5601.43
441	0.13		5601.89
442	0.06		5602.44
443	0.03		5603.01

444	0.00	0.00	5604.44
445		0.02	5604.16
446	0.00	0.00	5604.52
447	0.00	0.00	5604.54
448	0.07		5605.00
449	0.05		5605.63
450	0.04		5606.11
451	0.00	0.00	5606.93
452	CONTROL		5607.52

NOTE: POINTS 434,438,441,450 MAY HAVE BEEN DISTURBED(1992)

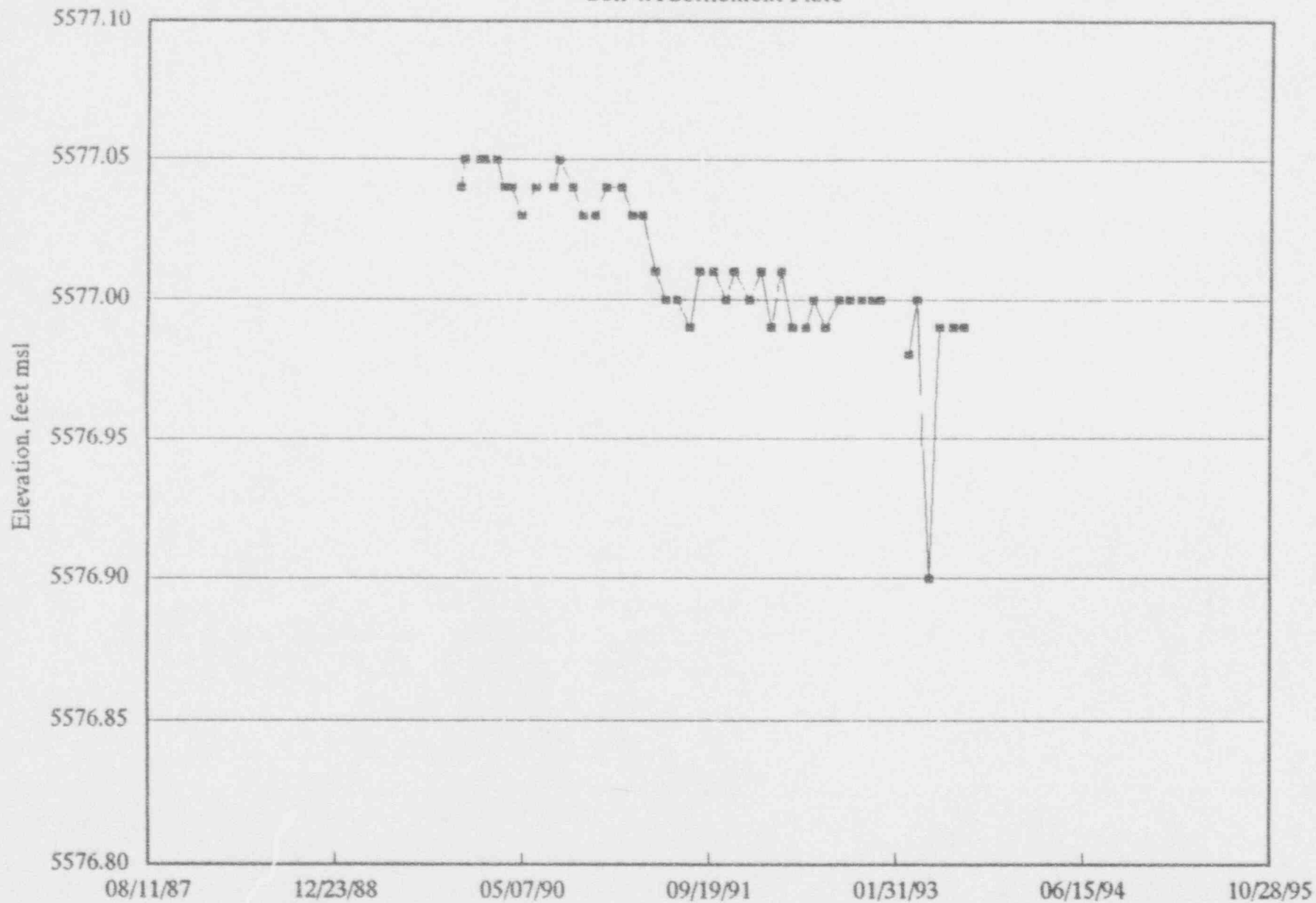
WHITE MESA MILL MOVEMENT MONITOR RESULTS  
AUG. 11, 1993 CELL4 S.DIKE BLANDING UTAH

MM NO.	D/S	U/S	ELEV.
453	CONTROL		5583.79
454	0.17		5587.74
455	0.10		5589.72
456	0.26		5590.09
457	0.00	0.00	5591.65
458	CONTROL		5595.33
459	CONTROL		5584.70
460	0.00	0.00	5574.58
461	0.00	0.00	5574.37
462		0.06	5573.78
463		0.06	5573.03
464	CONTROL		5569.74

NOTE: POINTS 454,456 REESTABLISHED, POINT 461 DISTURBED(1992)

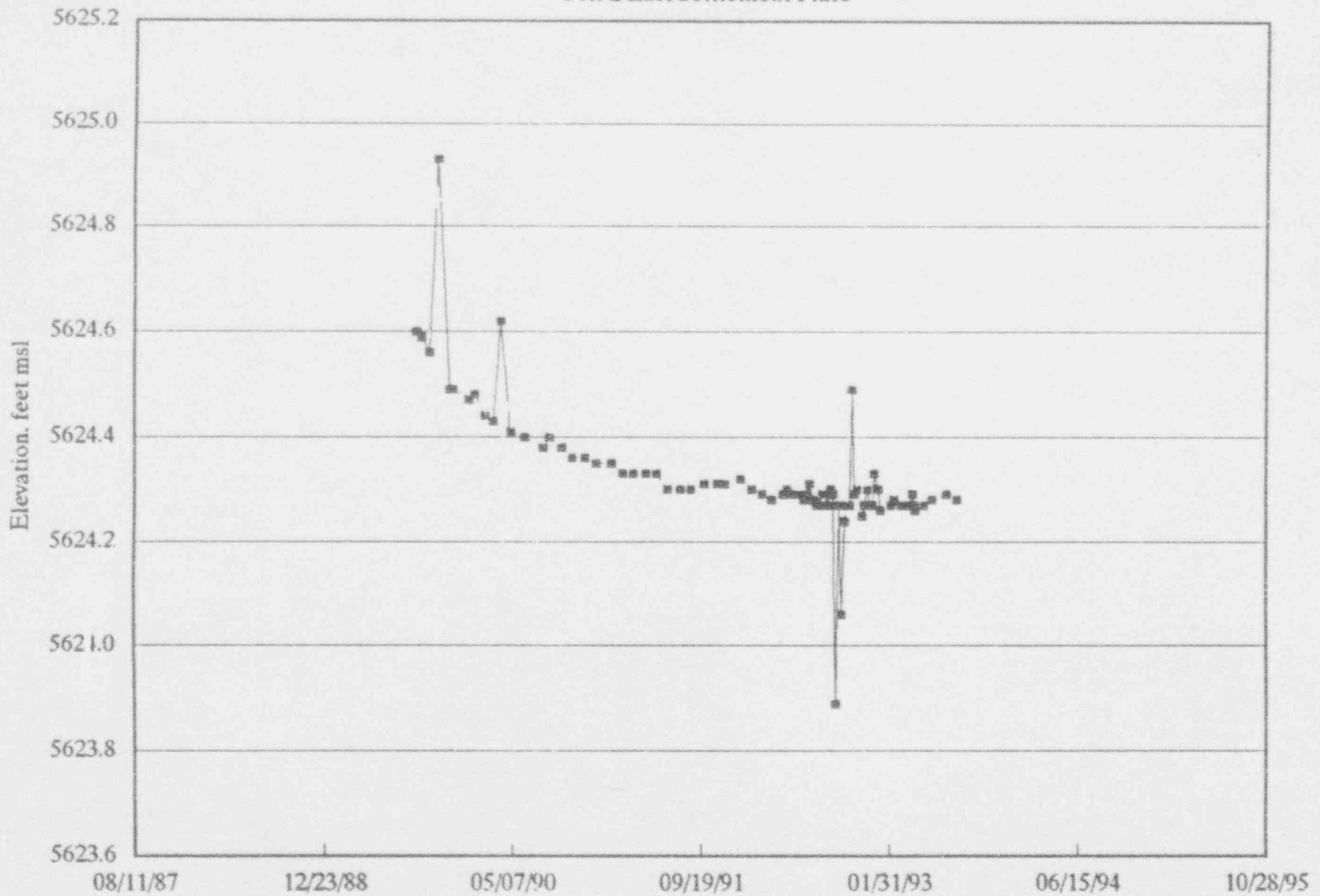
# White Mesa Mill

Cell 4A Settlement Plate



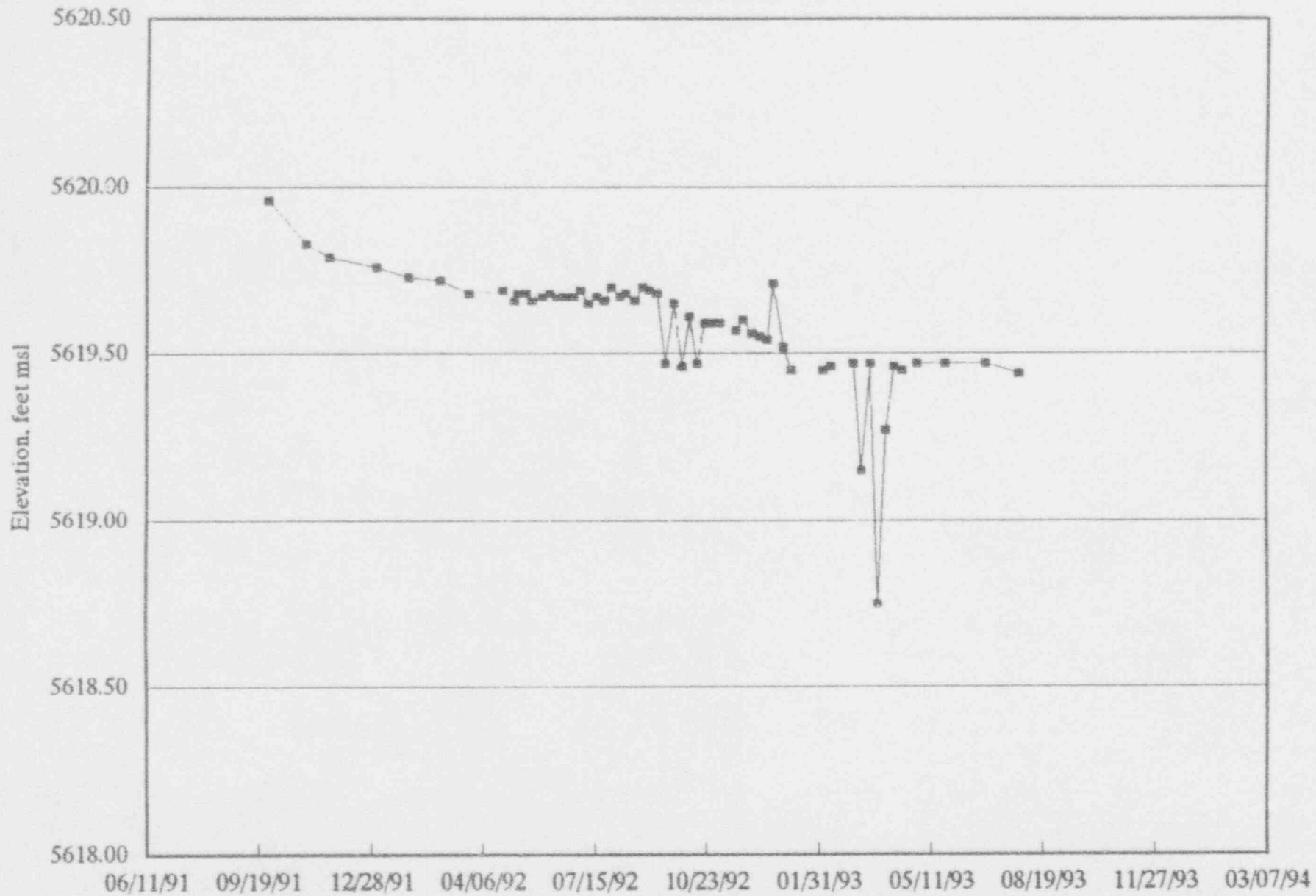
# White Mesa Mill

Cell 2 East Settlement Plate



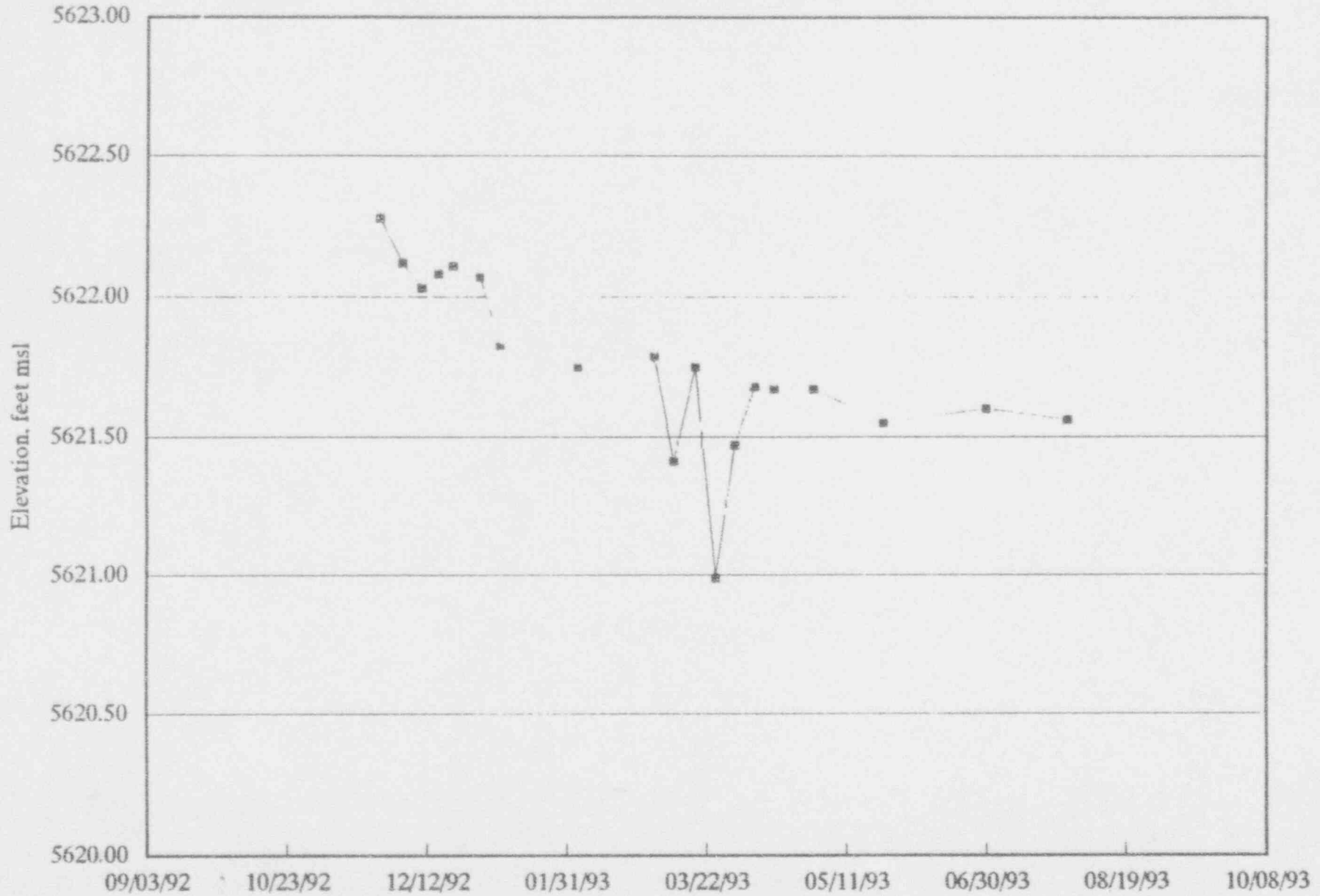
# White Mesa Mill

Cell 2 West Settlement Plate



# White Mesa Mill

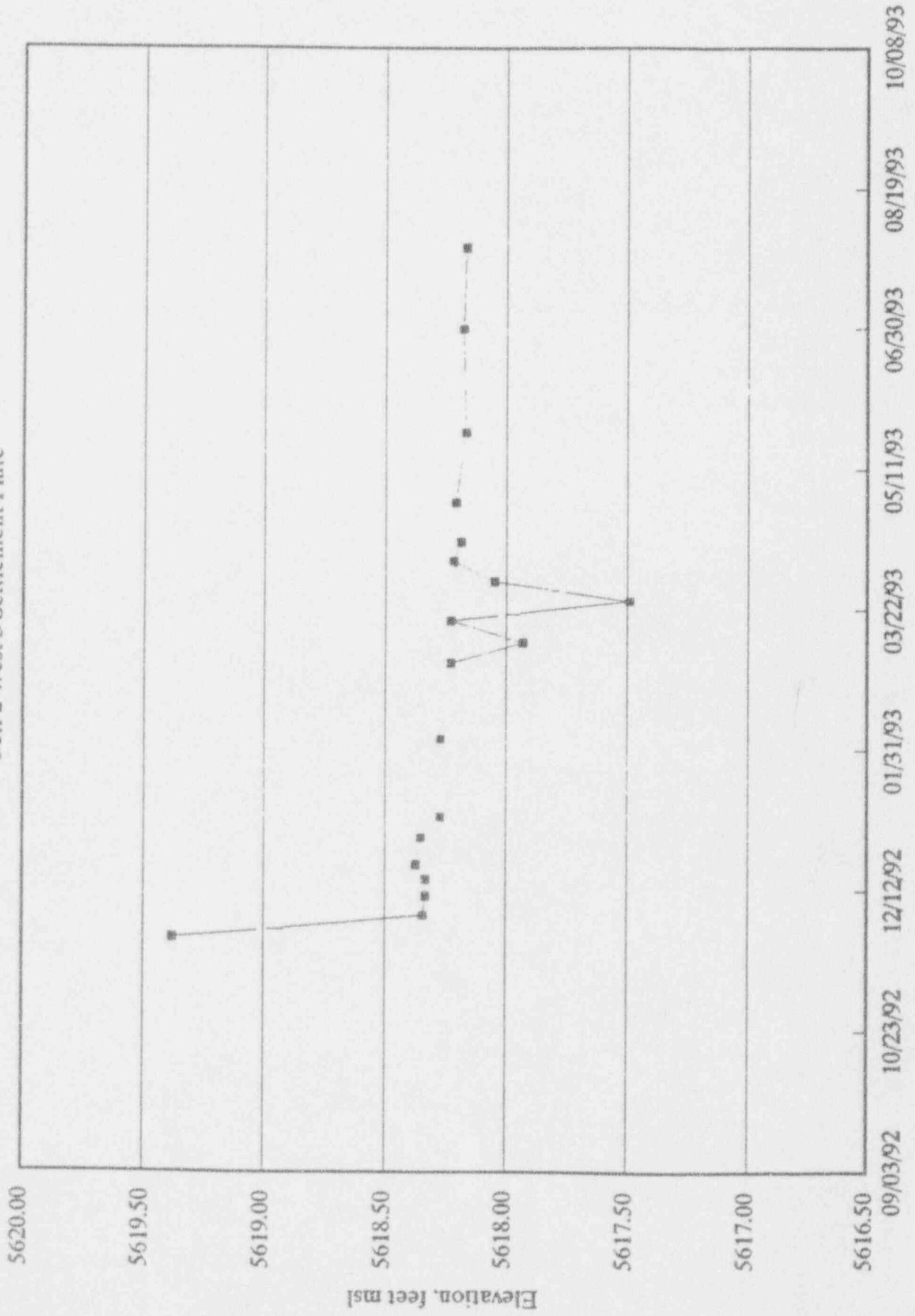
Cell 2 West 2 Settlement Plate





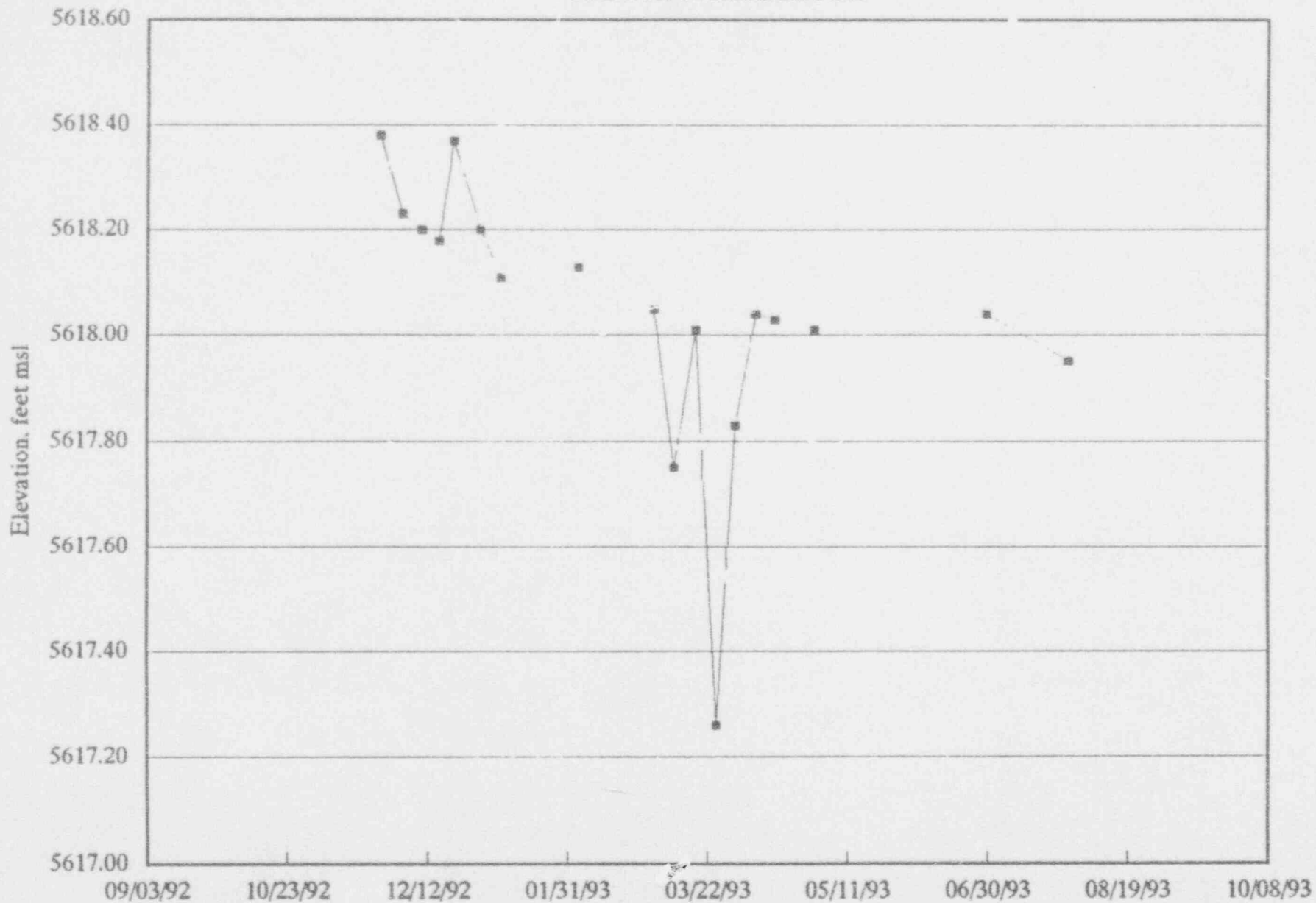
# White Mesa Mill

Cell 2 West 3 Settlement Plate



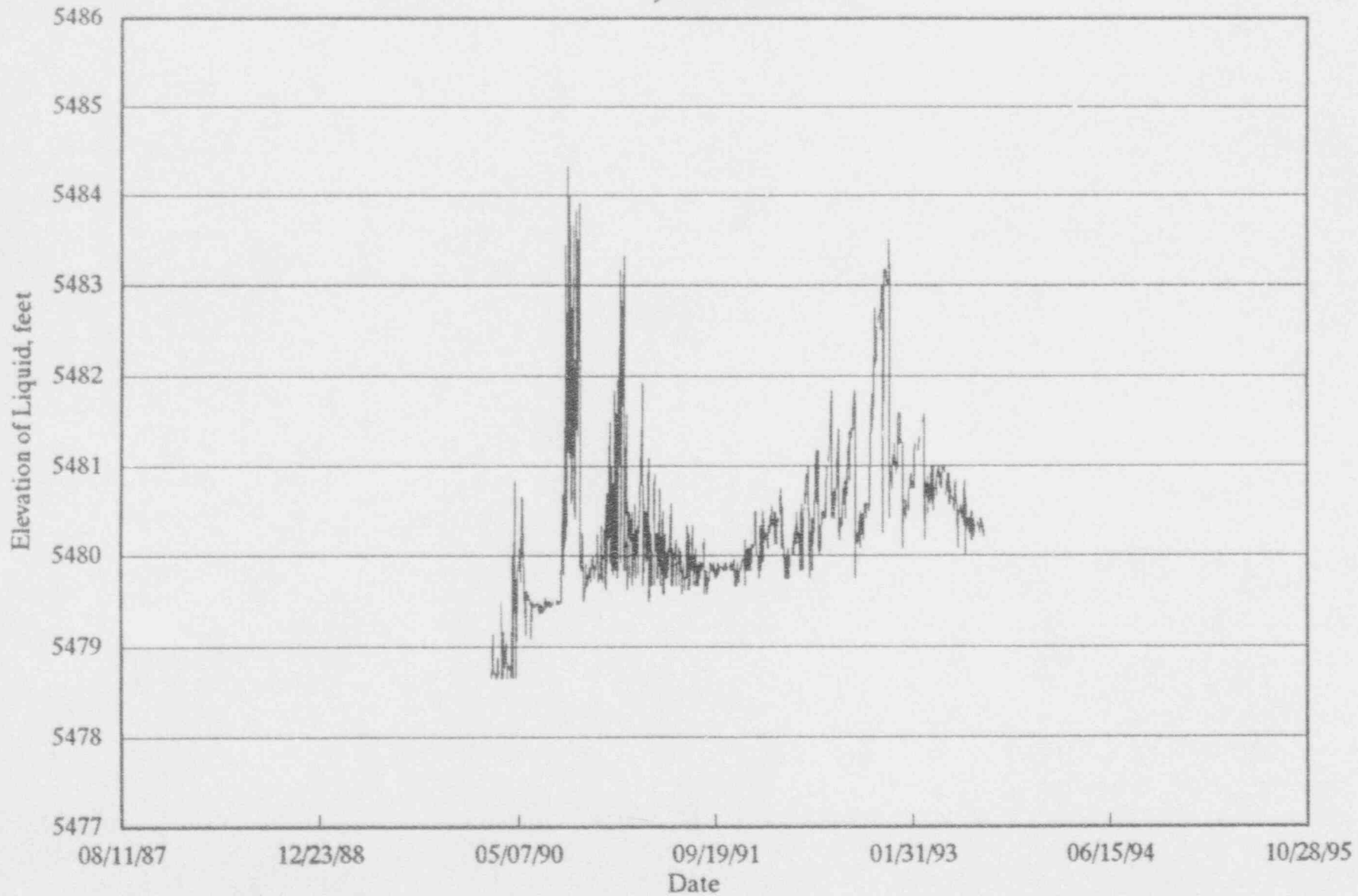
# White Mesa Mill

Cell 2 West 4 Settlement Plate



# Cell 4A Leak Detection System

Daily Measurements



Thru 10-31-91

Rev. by  
UB 8/20/92

LC26492

C2 = Cell 2, etc.

FAP = Fly Ash Pond

Date	Report Frequency	Area	Carried Forward?	General Observations - Observations of Potential Concern
07/01/92	Daily	C4a	yes	Liner repairs being planned
07/01/92	Daily	C4a	no	Prairie was observed at solution edge in C4a. Burrow at NE corner at fence
07/02/92	Daily	C11	no	Islands developing in C11 due to evaporation of solutions
07/06/92	Daily	C2	yes	Pumping C2 slimes drain into C3
07/13/92	Daily	C11	no	Covered 3 areas of exposed liner along west bank of C3
07/20/92	Daily	C3	no	Prairie dog holes found inside of dike on C3. Holes excavated no liner damage
07/27/92	Daily	C3	no	Covered small section of liner at west corner of C3
07/27/92	Daily	C2	no	Pumped solution from rains in C2 into C3
07/02/92	Weekly	C2	yes	Pumping C2 slimes drain into C3
07/09/92	Weekly	C2	no	Pumped solution pool in C2 into C3
07/16/92	Weekly	C2	no	3 days spent on prairie dog control. Dirt from fuel tanks being placed near dump
07/23/92	Weekly	C2	no	Pumped solution pool in C2 into C3. C2 slimes drain still pumping
07/30/92	Weekly	C4a	no	Pumped C4a leak detection system
07/31/92	Monthly	ALL	no	Annual tailings inspection conducted on 7-14-92 by Frank Weber
07/31/92	Monthly	Div	yes	Tumble weeds need cleaned out of the diversion ditches

Monthly Inspection Data

Date: 7-30-92

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

DISCHARGE

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

NO

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Monthly Inspection Data

Date: 7-30-92

Inspector: J.S. Schirmer

2. Surface Water Control Structures

Diversion Ditch 1: Need tumble weeds cleaned from ditch

Diversion Ditch 2: need some tumble weeds removed

Diversion Ditch 3: need tumble weeds removed on side guard systems

Diversion Berm 2: OK looks good

Mill and Facilities Area Sedimentation Pond:

OK

Remarks: Annual tailings inspection completed. Having some problems with passive dogs at cell 3.

Overspray Minimization Evaluation: None observed



WEEKLY INSPECTION DATA

Date: 7-30-92

Inspector: Schiema/Wilson

1. Pond Elevations (msl, ft) Cell 1-I: 5610.33

Cell 2: dry

Cell 3: 5596.13

Cell 4A: 5571.6

2. Underdrain Liquid Levels Cell 1-I: dry

Cell 2: 3560' to lig, 2,800, submers, pumped

Cell 3: dry

Cell 4A: 119' 10"

3. Tailings Area Inspection (Note dispersal of blowing tailings)

none noted

Control Methods Implemented: none needed

Remarks: # 2 Slimes pumping, pumped Cell 4A LD on 7-28-92  
118' 8" → 120' 3"

Contaminated Waste Dump: dump area & signage in good  
shape

Cell 2E 5624.27

Cell 2W 5619.70

DAILY INSPECTION DATA

Inspector: Gary Holbrook  
 Date: 7-21-92  
 Accompanied by: \_\_\_\_\_  
 Time: \_\_\_\_\_

Any Item not "ok" must be documented. A check mark = OK, X = Action Required.

I. TAILINGS SLURRY TRANSPORT SYSTEM

Inspection Items	Condition of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
* Slurry Pipeline	Leaks, Damage, Blockage, Sharp Bends	ok	ok	ok	ok
* Pipeline Joints	Leaks, Loose Connections	↓	↓	↓	↓
* Pipeline Supports	Damage, Loss of Support				
* Valves	Leaks, Blocked, Closed				
* Point(s) of Discharge	Improper Location or Orientation				

*NO SLURRY DISCHARGE*

II. OPERATIONAL SYSTEMS

Inspection Items	Conditions of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
* Water Level	Greater Than Operating Level, Large Change Since Previous Inspection	✓	✓	✓	✓
* Beach	Cracks, Severe Erosion, Subsidence	✓	✓	✓	✓
* Liner and Cover	Erosion of Cover, Exposure of Liner	✓	✓	✓	✓

III. DIKES AND EMBANKMENTS

Inspection Items	Conditions of Potential Concern	Dike 1-I	Dike 1-IA	Dike 2	Dike 3	Dike 4A-S	Dike 4A-W
* Slopes	Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak	✓	✓	✓	✓	✓	✓
* Crest	Cracks, Subsidence, Severe Erosion	✓	✓	✓	✓	✓	✓

IV. FLOW RATES	Slurry Line(s)	Pond Return	S-X Tails	Spray System
* GPM	○	○	○	○

V. PHYSICAL INSPECTION OF SLURRY LINE(S) *No, mill down*

\* Walked to Discharge Point Yes ✓ No  
 \* Observed Entire Discharge Line Yes ✓ No

Inspector: Jan Hood  
Date: 7/1/92

VI. DUST CONTROL

- \* Dusting
- \* Wind Movement of Tailings

SOME  
S&E

Precipitation: 0 inches liquid  
General Meteorological Conditions: Windy & cloudy.

Cell 2	Cell 3	Cell 4A
✓	✓	✓
✓	✓	✓

VII. DAILY LEAK DETECTION CHECK

- \* Leak Detection System Under Cell 4A Checked. 18 1/2" Wet \_\_\_ Dry

Initial level 18 1/2"  
Final level       
Gallons pumped 0

VIII. Observations of Potential Concern

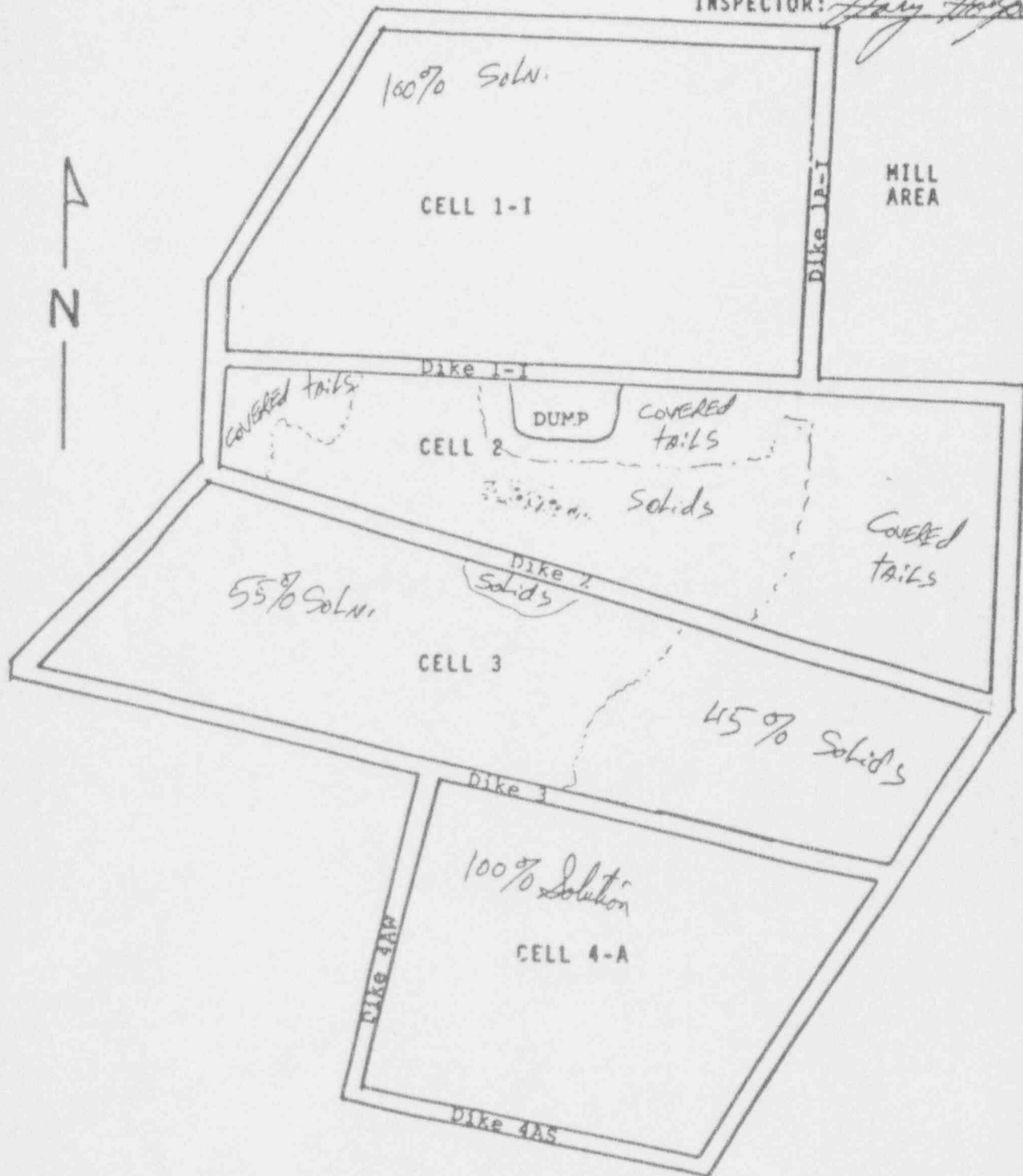
feridoz was down to solution edge in cell 4-A  
N-E corner has a burrow at fence row.

Action Required

trap or gas it.

DAILY INSPECTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 7-15-92  
INSPECTOR: Ray [Signature]



*Rev. by UB*  
*9/17/92*

LC26492

C2 = Cell 2, etc.  
FAP = Fly Ash Pond

Date	Report Frequency	Area	Carried Forward?	General Observations -- Observations of Potential Concern
08/01/92	Daily	C4a	yes	Liner repairs being planned
08/03/92	Daily	C3	no	Walked C3 for additional prairie dog holes. Found 4 no damage filled in holes
08/04/92	Daily	C11	no	Islands developing in C11 getting larger due to evaporation of solutions
08/04/92	Daily	C2	yes	Pumping C2 slimes drain into C3
08/23/92	Daily	C2	no	Pumped solution from rains in C2 into C3
08/24/92	Daily	C2	yes	Started placing cover on C2. Covered exposed liner west bank C3
08/06/92	Weekly	C3	no	Checked bank of C3 for prairie dog holes none found
08/12/92	Weekly	C2	no	C2 slimes drain pumping into C3. No dog holes found on C3 dike
08/20/92	Weekly	C2	no	Cover on C2 scheduled to start next week
08/27/92	Weekly	C3	yes	3 prairie dog holes found inside of C3 dike, dug out, no damage, filled in
08/31/92	Monthly	C3	no	Additional prairie dog holes found on inside of dike on C3, no damage
08/31/92	Monthly	ALL	no	started cover placement on C2 8-24-92
08/31/92	Monthly	Div	yes	Tumble weeds need cleaned out of the diversion ditches

Monthly Inspection Data

Date: 8/31/92

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

DISCHARGE

NO



Monthly Inspection Data

Date: 8/31/92

Inspector: Schisler

2. Surface Water Control Structures

Diversion Ditch 1: Some work on to make weed removal is needed. Bottom of ditch needs to be cleaned in areas that have silted.

Diversion Ditch 2: }

Diversion Ditch 3: }

Diversion Berm 2: Looks good

Mill and Facilities Area Sedimentation Pond: \_\_\_\_\_

Remarks: Started placement of cover on 8/04/92

C2 dimes drain still pumping

Some additional prairie dog holes found in C3 no damage and filled in

Overspray Minimization Evaluation: \_\_\_\_\_

No overspray observed.



WEEKLY INSPECTION DATA

Date: 27 August 1992  
Inspector: S.R.C./A.R.W.

1. Pond Elevations (msl, ft) Cell 1-I: 5609.94  
Cell 2: dry  
Cell 3: 5595.82  
Cell 4A: 5570.5 est.

2. Underdrain Liquid Levels Cell 1-I: dry  
Cell 2: 3578' to lig., 2,690, unknown, Dps  
Cell 3: dry  
Cell 4A: 1188"

3. Tailings Area Inspection (Note dispersal of blowing tailings)  
slime to move

Control Methods Implemented: covering on 2 raised this week, no others needed

Remarks: 3 dog holes on inside of 3, dug out, no damages, filled back, 2 slimes still pumping

Contaminated Waste Dump: dump area & signs in good shape

Cell 2E  
5624.30

Cell 2W  
5619.70

Cell 4A  
5577.0

DAILY INSPECTION DATA

Inspector: Scott J. Scherman  
 Date: 8-31-92  
 Accompanied by: ---  
 Time: 9:00 - 9:45

Any Item not "ok" must be documented. A check mark = OK, X = Action Required.

I. TAILINGS SLURRY TRANSPORT SYSTEM

Inspection Items	Condition of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
• Slurry Pipeline	Leaks, Damage, Blockage, Sharp Bends	✓	✓	✓	✓
• Pipeline Joints	Leaks, Loose Connections	✓	✓	✓	✓
• Pipeline Supports	Damage, Loss of Support	✓	✓	✓	✓
• Valves	Leaks, Blocked, Closed	✓	✓	✓	✓
• Point(s) of Discharge	Improper Location or Orientation				

II. OPERATIONAL SYSTEMS

Inspection Items	Conditions of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
• Water Level	Greater Than Operating Level, Large Change Since Previous Inspection	✓	✓	✓	✓
• Beach	Cracks, Severe Erosion, Subsidence	✓	✓	✓	✓
• Liner and Cover	Erosion of Cover, Exposure of Liner	✓	✓	✓	*

III. DIKES AND EMBANKMENTS

Inspection Items	Conditions of Potential Concern	Dike 1-I	Dike 1-IA	Dike 2	Dike 3	Dike 4A-S	Dike 4A-M
• Slopes	Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak	✓	✓	✓	✓	✓	✓
• Crest	Cracks, Subsidence, Severe Erosion	✓	✓	✓	✓	✓	✓

\* Cell 4a liner repairs planned

IV. FLOW RATES

Slurry Line(s)	Pond Return	S-X Tails	Spray System
2 • GPM	2	2	2

V. PHYSICAL INSPECTION OF SLURRY LINE(S)

• Walked to Discharge Point Yes ✓ No  
 • Observed Entire Discharge Line ✓ Yes No

Inspector: Scherman  
Date: 8-31-92

Cell 2	Cell 3	Cell 4A
✓	✓	✓
✓	✓	✓

I. DUST CONTROL

- Dusting
- Wind Movement of Tailings

Precipitation: 0.21 inches liquid  
General Meteorological Conditions:

Estimate of dusting in C2 at winds >25 MPH = 30%  
Estimate of dusting in C3 at winds >25 MPH = 25%

VII. DAILY LEAK DETECTION CHECK

• Leak Detection System Under Cell 4g Checked.  Wet  Dry

Initial level 118' 8"  
Final level \_\_\_\_\_  
Gallons pumped \_\_\_\_\_

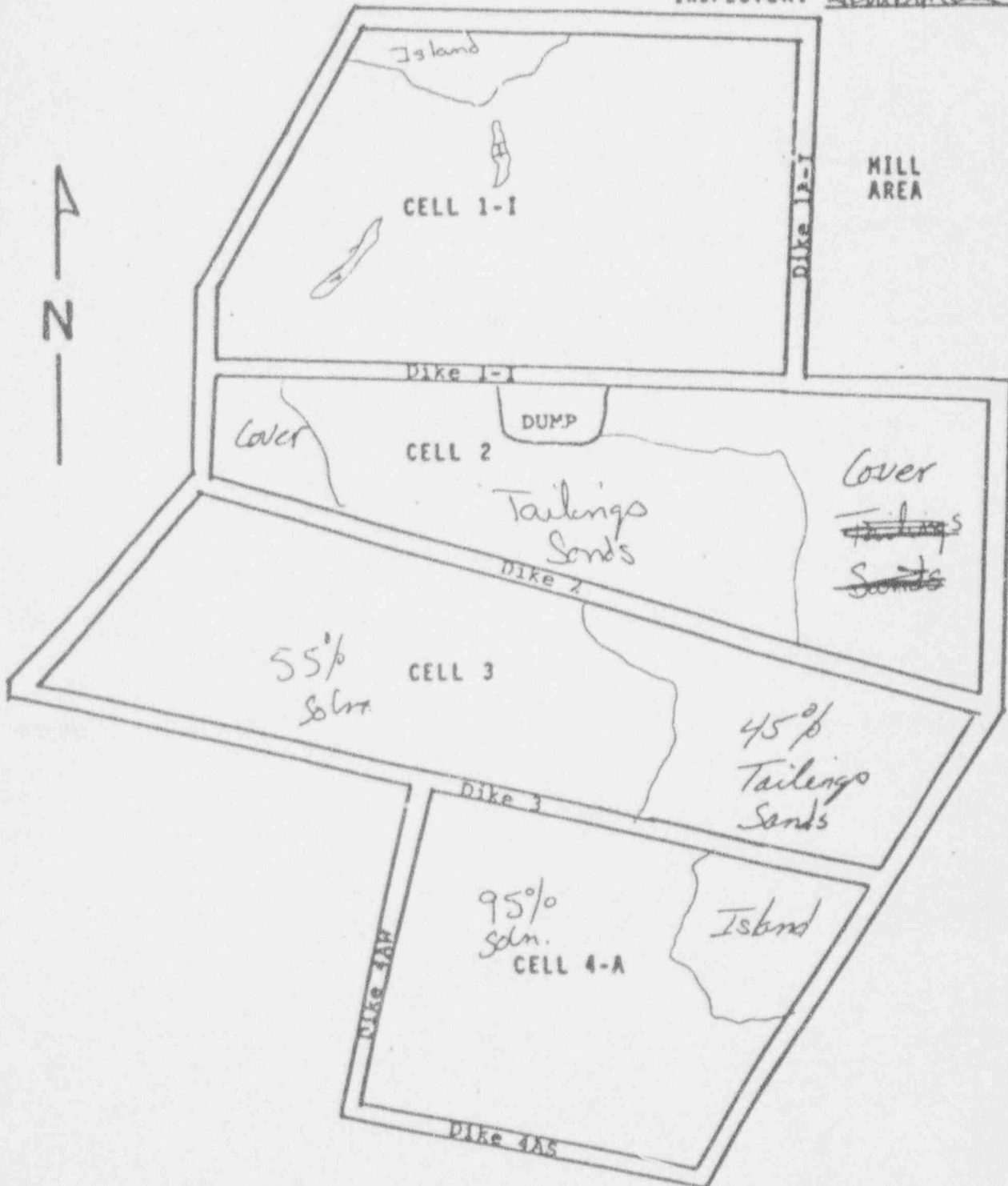
VIII. Observations of Potential Concern

Started placing covers on Cell 2 on  
8/24/92

Action Required

DAILY INSPECTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 8/31/92  
INSPECTOR: Schweimer



LC26992

C2 = Cell 2, etc.  
FAP = Fly Ash Pond

Date	Report Frequency	Area	Carried Forward?	General Observations - Observations of Potential Concern
09/01/92	Daily	C4a	yes	Liner repairs being planned
09/01/92	Daily	C2	yes	Placement of cover material on C2 continues
09/01/92	Daily	C2	yes	Pumping C2 slimes drain into C3
09/01/92	Daily	C4	no	Survey crew working around C4
09/01/92	Daily	C2	no	Pumped solution pool from rains in C2 into C3
09/02/92	Daily	C2	yes	Islands developing in C11 and C4
09/14/92	Daily	C2	no	Shut down C2 slimes drain low flow. Notified Butch problem corrected
09/17/92	Daily	C2	no	Pumped solution pool from C2 into C3
09/19/92	Daily	C2	no	Pumped solution pool from C2 into C3. Received .76 inches of rain
09/20/92	Daily	C2	no	Pumped solution pool from C2 into C3.
09/21/92	Daily	C11	no	3ft section of exposed liner observed on east bank C11. Covered by Shifter
09/28/92	Daily	C2	yes	Slimes drain pump at C2 not operating. Electrical problems being worked on
09/30/92	Daily	C2	no	Slimes drain pump on C2 repaired
09/02/92	Weekly	C3	no	Walked south side of C3 dike no prairie dog holes found
09/09/92	Weekly	C2	no	Pumped C4A leak detection on 9-8-92. Pumped solution pool in C2 into C3
09/17/92	Weekly	C2	yes	Slimes drain on C2 pumping
09/24/92	Weekly	C3	no	Checked south side of C3 for prairie dog holes none found on inside of dike
09/01/92	Monthly	Div	no	Tumble weeds have been cleaned out of the diversion ditches. Locks good

Rev. by  
W. Brin

Inspector Acherman  
Date 9/30/92

WHITE MESA PROCEDURES MANUAL

Quarterly Inspection Data

1. Embankment Inspection: Embankments look good. Some prairie dog holes observed on inside dike of cell 3 no damage occurred.  
Exposed lines noted during daily inspections were covered look's good.

2. Operations/Maintenance Review: \_\_\_\_\_

Maintenance placing covers on cell 2.  
Slimes drains being pumped from cell 2 into Cell 3 Pump repaired: 9/20/92

3. Post-construction Changes: \_\_\_\_\_

Fly Ash pond filled

4. Summary: Cell 4a lines repair being evaluated  
by Eng Dept

Some repairs needed to restricted area fence north of Cell



Monthly Inspection Data

Date: 9/30/98

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_

*NO DISCHARGE*



# WEEKLY TAILINGS INSPECTION

DATE: 24 Sept. 1992  
INSPECTOR: S.R.C. / J.R.W.

1. Pond Elevations (msl, ft)

Cell 1-1: 5609.65  
Cell 2: dry  
Cell 3: 5595.15  
Cell 4A: NA/ about panel E50 1/2

2. Underdrain liquid levels

Cell 1-1: dry  
Cell 2: 35.71" to lig, 2,870, slimes 1/2 gal  
Cell 3: dry  
Cell 4A: 119.7"

3. Settlement monitors

Cell 2 East: 5624.06  
Cell 2 West: 5619.65  
Cell 4A Toe: 5577.0

4. Tailings Area Inspection (Note dispersal of blowing tailings) none  
noted

5. Control Methods Implemented: still covering on Cell 2

6. Remarks: #2 Slimes drain still pumping, went on dog (prairie)  
patrol today

7. Contaminated Waste Dump: dump area is moving on out in  
cell 2 due to covering, sign is out of way of machinery but  
in good visibility

DAILY INSPECTION DATA

Inspector: S. CHRISTENSEN  
 Date: 9-30-92  
 Accompanied by: \_\_\_\_\_  
 Time: 1:15 pm

Any Item not "ok" must be documented. A check mark = OK, X = Action Required.

I. TAILINGS SLURRY TRANSPORT SYSTEM

Inspection Items	Condition of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
* Slurry Pipeline	Leaks, Damage, Blockage, Sharp Bends	✓	✓	✓	✓
Pipeline Joints	Leaks, Loose Connections	✓	✓	✓	✓
* Pipeline Supports	Damage, Loss of Support	✓	✓	✓	✓
* Valves	Leaks, Blocked, Closed	✓	✓	✓	✓
* Point(s) of Discharge	Improper Location or Orientation	✓	✓	✓	✓

II. OPERATIONAL SYSTEMS

Inspection Items	Conditions of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
* Water Level	Greater Than Operating Level, Large Change Since Previous Inspection	✓	✓	✓	✓
* Beach	Cracks, Severe Erosion, Subsidence	✓	✓	✓	✓
* Liner and Cover	Erosion of Cover, Exposure of Liner	✓	✓	✓	✓

III. DIKES AND EMBANKMENTS

Inspection Items	Conditions of Potential Concern	Dike 1-I	Dike 1-IA	Dike 2	Dike 3	Dike 4A-S	Dike 4A-W
* Slopes	Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak	✓	✓	✓	✓	✓	✓
* Crest	Cracks, Subsidence, Severe Erosion	✓	✓	✓	✓	✓	✓

V. FLOW RATES

Slurry Line(s)	Pond Return	S-X Tails	Spray System
* GPM			

No Flows - Mill Down

VI. PHYSICAL INSPECTION OF SLURRY LINE(S)

- \* Walked to Discharge Point
- \* Observed Entire Discharge Line

Yes  No   
 Yes  No

Inspector: S. Christensen  
Date: 9-30-92

Cell 2	Cell 3	Cell 4A

I. DUST CONTROL

- Dusting
- Wind Movement of Tailings

NONE

Precipitation: 0 inches liquid  
General Meteorological Conditions:

II. DAILY LEAK DETECTION CHECK

- Leak Detection System Under Cell 4 Checked.  Wet  Dry

Initial level 119' 7 1/4"  
Final level \_\_\_\_\_  
Gallons pumped \_\_\_\_\_

III. Observations of Potential Concern

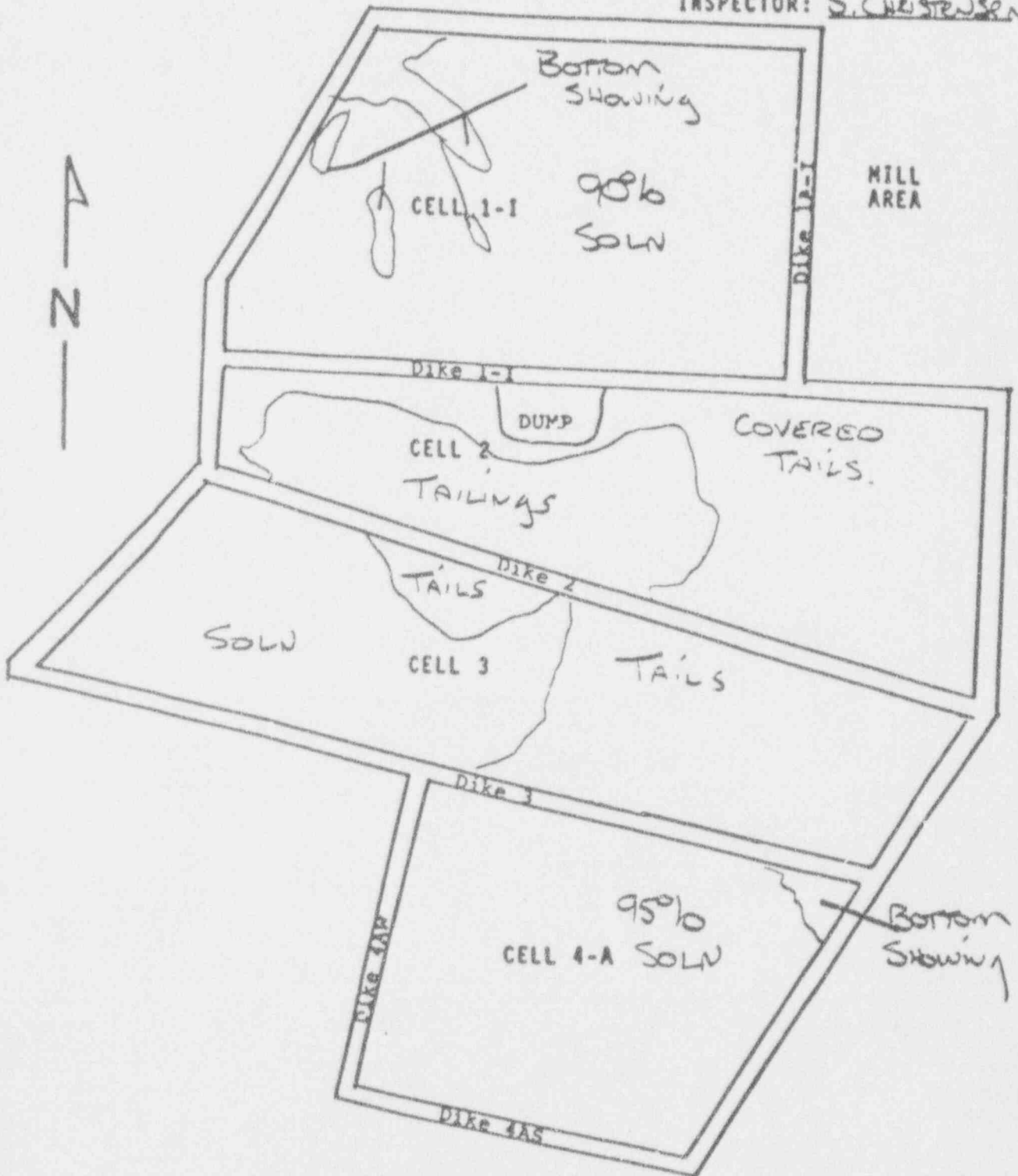
covering cell # 2  
slimes sump pump is pumping again

Action Required

DAILY SPECTATION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 9-30-92

INSPECTOR: S. CHRISTENSEN



White Mesa Mill

Date: 20-Dec-92

*Reviewed  
by W.B.  
12/21/92* Page 1

LC261092

C2 = Cell 2, etc.  
FAP = Fly Ash Pond

Date	Report Frequency	Area	Carried Forward?	General Observations -- Observations of Potential Concern
10/01/92	Daily	C4a	yes	Liner repairs being planned
10/01/92	Daily	C2	yes	Placement of cover material on C2 continues
10/01/92	Daily	C2	yes	Pumping C2 slimes drain into C3
10/05/92	Daily	C3	yes	Some evidencence of tailings movement from C3. C3 cover placement planned
10/14/92	Daily	C2	yes	Placement of cover material on C2 has been halted temporarily
10/19/92	Daily	C2	no	Pumped solution pool from C2 into C3
10/22/92	Daily	C2	no	C2 slimes drain pump not pumping. Bruce will check on it
10/23/92	Daily	C2	no	C2 slimes drain pump is repaired and working
10/24/92	Daily	C2	yes	C2 slimes drain pump running but not pumping any solutions turned pump off
10/25/92	Daily	C2	no	Pumped solution pool from C2 into C3.
10/26/92	Daily	C3	no	Covered 1ft area of exposed liner on west end of C3
10/31/92	Daily	C2	no	Pumped solution pool from C2 into C3.
10/01/92	Weekly	C2	yes	Slimes drain pump on C2 repaired and pumping
10/08/92	Weekly	C3	yes	Some wind movement of tailings from C3. C2 slimes drain pump not working
10/15/92	Weekly	C2	yes	Slimes drain pump not working new pump has been ordered
10/21/92	Weekly	C2	yes	Slimes drain on C2 repaired. C4 leak detection pump burned up parts ordered
10/28/92	Weekly	C2	no	Pumped solution pool from C2 into C3
10/31/92	Monthly	C2	no	Cover placement stopped on C2 due to equipment problems

Monthly Inspection Data

Date: 10/31/92

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

DISCHARGE

NO



Monthly Inspection Data

Date: 10/31/42

Inspector: Schinner

2. Surface Water Control Structures

Diversion Ditch 1: Good

Diversion Ditch 2: Good

Diversion Ditch 3: Good

Diversion Berm 2: Good

Mill and Facilities Area Sedimentation Pond: \_\_\_\_\_

- NA -

Remarks: Cover placement stopped on cell 2 due to equipment breakdown.

Overspray Minimization Evaluation: \_\_\_\_\_

none noted



# WEEKLY TAILINGS INSPECTION

DATE: 1 October 1992  
INSPECTOR: S.L.S. / S.R.C.

1. Pond Elevations (msl, ft)

Cell 1-I: 5609.58  
Cell 2: dry  
Cell 3: ~~5597.68~~ 5595.46  
Cell 4A: about panel 50'4E (not covering bottom)

2. Underdrain liquid levels

Cell 1-I: dry  
Cell 2: dry (could not get conductive in puddle)  
Cell 3: dry  
Cell 4A: 119.7

3. Settlement monitors

Cell 2 East: 5624.24  
Cell 2 West: 5619.46  
Cell 4A Toe: monthly

4. Tailings Area Inspection (Note dispersal of blowing tailings) none noted

5. Control Methods Implemented: none needed

6. Remarks: #2 Slimes drain pumping again, #2 Standpipe did not have enough water in the bottom to get a conductive on the no water

7. Contaminated Waste Dump: dump area being pushed out, sign not right next to area to keep it out of workers road, visible in area through

# WEEKLY TAILINGS INSPECTION

DATE: October 28, 1992  
INSPECTOR: S.R.C./J.R.W.

1. Pond Elevations (msl, ft)

Cell 1-I: 5609.14  
Cell 2: dry  
Cell 3: 5598.44  
Cell 4A: not covering bottom

2. Underdrain liquid levels

Cell 1-I: dry  
Cell 2: 35.87' to Dig, 2,930 gallons, Dpu  
Cell 3: dry  
Cell 4A: 117'6" pump out of order

3. Settlement monitors

Cell 2 East: 5624.29  
Cell 2 West: 5619.59  
Cell 4A Toe: 5577.01

4. Tailings Area Inspection (Note dispersal of blowing tailings) none noted

5. Control Methods Implemented: real wet spell, more needed

6. Remarks: Cell 2 Slimes pump in working order again & pumping good stream. Pumped Cell 2 puddle today. pump in Cell 4. leak detection is burnt up; parts are ordered

7. Contaminated Waste Dump: dump area & sign in good shape

DAILY INSPECTION DATA

Inspector: M. Sullivan  
 Date: 10/31/92  
 Accompanied by: \_\_\_\_\_  
 Time: 1100

Item not "ok" must be documented. A check mark = OK, X = Action Required.

I. TAILINGS SLURRY TRANSPORT SYSTEM

Inspection Items

Condition of Potential Concern

Cell 1-I	Cell 2	Cell 3	Cell 4A
ok	ok	ok	ok
↓	↓	↓	↓

- Slurry Pipeline
  - Pipeline Joints
  - Pipeline Supports
  - Valves
  - Point(s) of Discharge
- Leaks, Damage, Blockage, Sharp Bends  
 Leaks, Loose Connections  
 Damage, Loss of Support  
 Leaks, Blocked, Closed  
 Improper Location or Orientation

OPERATIONAL SYSTEMS

Inspection Items

Conditions of Potential Concern

Cell 1-I	Cell 2	Cell 3	Cell 4A
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓

- Water Level
  - Beach
  - Liner and Cover
- Greater Than Operating Level, Large Change Since Previous Inspection  
 Cracks, Severe Erosion, Subsidence  
 Erosion of Cover, Exposure of Liner

DIKES AND EMBANKMENTS

Inspection Items

Conditions of Potential Concern

Dike 1-I	Dike 1-IA	Dike 2	Dike 3	Dike 4A-S	Dike 4A-W
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓

- Slopes
  - Crest
- Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak  
 Cracks, Subsidence, Severe Erosion

FLOW RATES	Slurry Line(s)	Pond Return	S-X Tails	Spray System
• GPM	0	0	0	0

PHYSICAL INSPECTION OF SLURRY LINE(S) *Mill down no discharge*

- Walked to Discharge Point  Yes  No
- Inspected entire Discharge Line  Yes  No

Inspector: M. S. S. S.  
 Date: 10-31-92

Cell 2	Cell 3	Cell 4A
✓	✓	✓
✓	✓	✓

*Pumped Sol from Cell #2 to Cell #3.*

DUST CONTROL

- Dusting
- Wind Movement of Tailings

Precipitation: .43 inches liquid  
 general Meteorological Conditions:  
*Var Clouds & Cold*

DAILY LEAK DETECTION CHECK

- Leak Detection System Under Cell 4A Checked.  Wet  Dry

Initial level 117'6"  
 Final level             
 Gallons pumped           

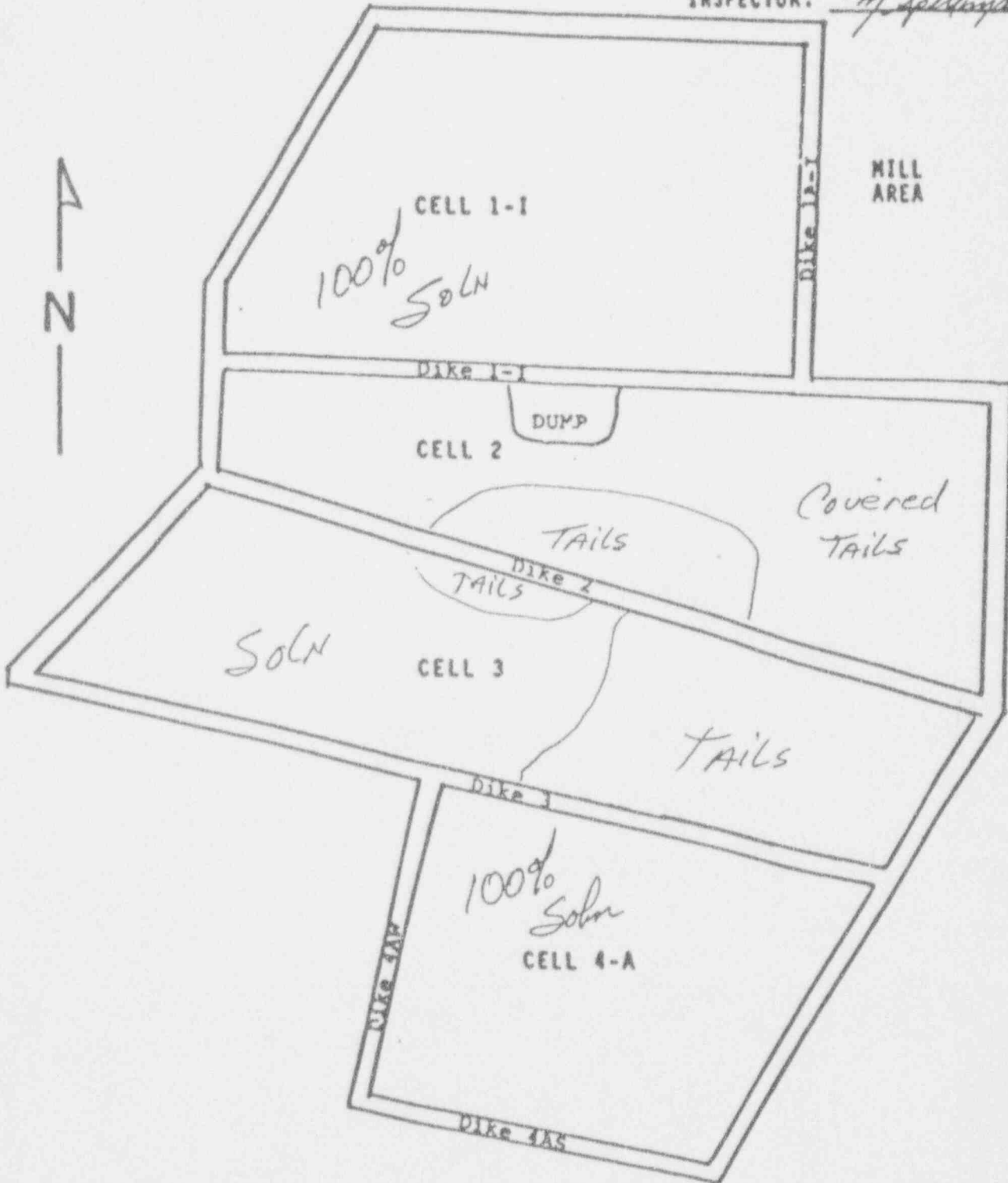
Action Required

I. Observations of Potential Concern

DAILY INSPECTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 10-31-97

INSPECTOR: M. Spillman



White Mesa Mill

Date: 20-Dec-92

*Reviewed  
by WBS  
12/28/92* Page 1

LC261192

C2 = Cell 2, etc.

FAP = Fly Ash Pond

Date	Report Frequency	Area	Carried Forward?	General Observations - Observations of Potential Concern
11/01/92	Daily	C4a	yes	Liner repairs being planned
11/01/92	Daily	C1	no	Covered section of exposed liner at east end of C1
11/02/92	Daily	C2	no	Covered 6' by 8' section of exposed liner west end of C2
11/12/92	Daily	C3	no	Pumping solutions from C1 into C3
11/16/92	Daily	C2	yes	Placing cover at west end of C2 at this time
11/17/92	Daily	C3	no	Pumping solutions from C1 into C3
11/18/92	Daily	C3	no	Pump in C1 is being repaired
11/19/92	Daily	C3	yes	Pumping solution from C1 into C3
11/20/92	Daily	C2	yes	Slimes drain pump not working power off to that area of tails
11/21/92	Daily	C2	no	Cleaned crystals off sump pump in C1
11/22/92	Daily	C2	yes	C1 pump out for repairs. Solution pool C2 needs pumped when power returned
11/25/92	Daily	C2	yes	Pumping solution pool from C2 to C3. C1 pumping into C3 scratched
11/30/92	Daily	C3	no	Some evidence of dusting in C3. Started cover placement at east end C3
11/04/92	Weekly	C2	no	C2 slimes drain pumping. C4A leak detection pump down one on order
11/14/92	Weekly	C2	no	Spent week on tailings with consultant no survey done
11/18/92	Weekly	C2	no	Slimes drain on C2 pumping. pumping C1 into C3. C4A pump not here
11/25/92	Weekly	C2	no	3 new movement monitors surveyed in on C2. Shifter pumped pool at C2 into C3
11/30/92	Monthly	C3	no	Started cover placement at west end C3. 3 settlement plates added to C2 cover



Monthly Inspection Data

Date: 11/30/92

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

DISCHARGE

NO



Monthly Inspection Data

Date: 11/30/92

Inspector: Schierman

2. Surface Water Control Structures

Diversion Ditch 1: Good no problems observed

Diversion Ditch 2: Good no problems observed

Diversion Ditch 3: Good no problems observed

Diversion Berm 2: Good no problems observed

Mill and Facilities Area Sedimentation Pond: - NA -

Remarks: Cover placement finished on cell 2 for year. Added three additional ~~sett~~ settlement plates to cover on cell 2. Started cover placement on cell 3.

Overspray Minimization Evaluation: \_\_\_\_\_

None noted.

# WEEKLY TAILINGS INSPECTION

DATE: 11-25-92  
INSPECTOR: S.R.C./J.R.W.

1. Pond Elevations (msl, ft)

Cell 1-1: 5608.23  
Cell 2: dry  
Cell 3: 5595.57  
Cell 4A: West Edge of Panel 50

2. Underdrain liquid levels

Cell 1-1: dry  
Cell 2: 35.49 to lig, 1,570 gal/min, 2 pm  
Cell 3: dry  
Cell 4A: 116 gal

3. Settlement monitors

Cell 2 East: 5624.27  
Cell 2 West: 5619.6 5617.28 5619.38 5618  
Cell 4A Toe: 5577.0

4. Tailings Area Inspection (Note dispersal of blowing tailings) none noted

5. Control Methods Implemented: Cover to start Monday  
Nov. 30 on Cell 3

6. Remarks: did the initial levels on 3 new movement  
monitors on Cell 2 Cover area, will remember these  
on their poles, shifts pumped puddle in Cell 2, slimes  
drain line frozen so no pumping there today

7. Contaminated Waste Dump: dump area & sign in good  
shape

DAILY INSPECTION DATA

Inspector: A. I. Sherman  
 Date: 11/30/92  
 Accompanied by: J. R. Watson  
 Time: 9:00 AM to 11:00 AM

Any Item not "ok" must be documented. A check mark = OK, X = Action Required.

I. TAILINGS SLURRY TRANSPORT SYSTEM

Inspection Items	Condition of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
* Slurry Pipeline	Leaks, Damage, Blockage, Sharp Bends	✓	✓	✓	✓
* Pipeline Joints	Leaks, Loose Connections	✓	✓	✓	✓
* Pipeline Supports	Damage, Loss of Support	✓	✓	✓	✓
* Valves	Leaks, Blocked, Closed	✓	✓	✓	✓
* Point(s) of Discharge	Improper Location or Orientation	✓	✓	✓	✓

II. OPERATIONAL SYSTEMS

Inspection Items	Conditions of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
* Water Level	Greater Than Operating Level, Large Change Since Previous Inspection	✓	✓	✓	✓
* Beach	Cracks, Severe Erosion, Subsidence	✓	✓	✓	*
* Liner and Cover	Erosion of Cover, Exposure of Liner	✓	✓	✓	*

III. DIKES AND EMBANKMENTS

Inspection Items	Conditions of Potential Concern	Dike 1-I	Dike 1-IA	Dike 2	Dike 3	Dike 4A-S	Dike 4A-W
* Slopes	Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak	✓	✓	✓	✓	✓	✓
* Crest	Cracks, Subsidence, Severe Erosion	✓	✓	✓	✓	✓	✓

V. FLOW RATES	Slurry Line(s)	Pond Return	S-X Tails	Spray System
Q * GPM				⊕

*Liner ~~rep~~ repairs planned to all 4s.*

VI. PHYSICAL INSPECTION OF SLURRY LINE(S)

- \* Walked to Discharge Point Yes ✓ No
- \* Observed Entire Discharge Line Yes ✓ No

Inspector: Scherman  
Date: 11/30/92

DUST CONTROL

- \* Dusting
- \* Wind Movement of Tailings

Precipitation: \_\_\_\_\_ inches liquid  
General Meteorological Conditions:

Cell 2	Cell 3	Cell 4A
✓	✓	✓
✓	*	✓

Estimate of potential for dusting from cell 2 in winds 725 mph is 15%  
Estimate of potential for dusting from cell 3 in winds 725 mph is 85%

II. DAILY LEAK DETECTION CHECK

\* Leak Detection System Under Cell 4a Checked.  Wet  Dry

Initial level 117'  
Final level \_\_\_\_\_  
Gallons pumped \_\_\_\_\_

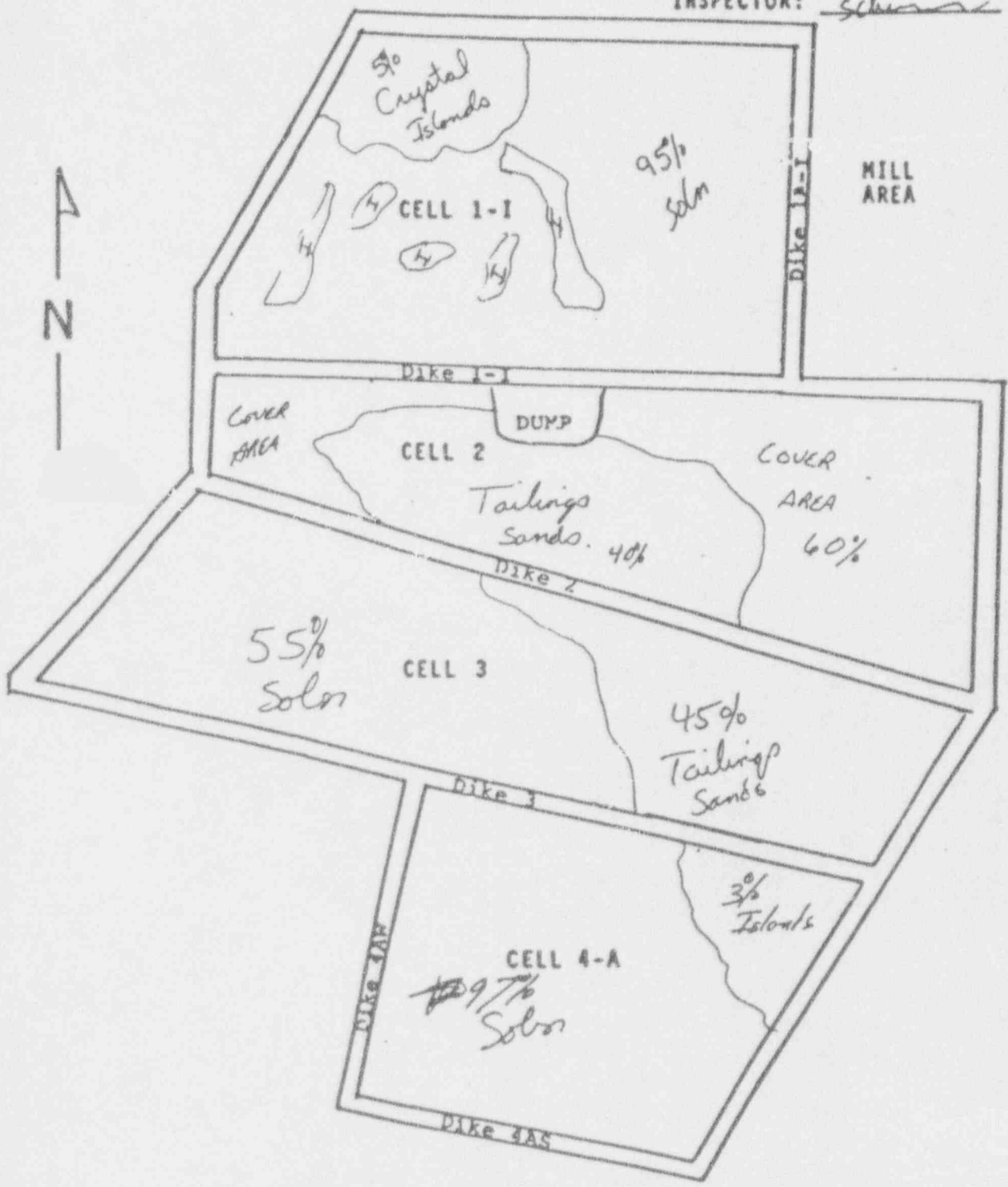
III. Observations of Potential Concern

Cell 3 sands surface is being allowed to dry to allow cover placement. Some dusting and evidence of dusting has been observed from cell 3. Cover placement has started at the east end of cell 3.

Action Required

DAILY INSPECTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 11/30/92  
INSPECTOR: Schmitt



*Rev by LB*

LC261292

C2 = Cell 2, etc.

FAP = Fly Ash Pond

Date	Report Frequency	Area	Carried Forward?	General Observations – Observations of Potential Concern
12/01/92	Daily	C4a	yes	Liner repairs being planned
12/01/92	Daily	C3	yes	Cover placement continues on C3
12/02/92	Daily	C4a	no	Pumping C4a leak detection at time of inspection
12/17/92	Daily	C3	no	Sump pump in C2 is frozen no danger of solution levels getting to high
12/28/92	Daily	C2	no	No checks made due to snowy road conditions
12/03/92	Weekly	C4a	no	Pumped cell 4A leak detection. Placing cover on east end of C3
12/10/92	Weekly	C2	no	Pumped solution pool in C2. Slimes drain pumping good. Monitor wells finished
12/16/92	Weekly	C2	no	Slimes drain on C2 pumping. C2 sump pump frozen
12/21/92	Weekly	C2	no	Dump area and sign in good shape
12/31/92	Weekly	C2	no	Pumping C2 slimes drain. Cover placement on C3 continues
12/15/92	Monthly	C3	no	Cover placement continues on east end of C3. New monitor wells finished



Inspector J. J. Scherman  
Date 12-15-82

## WHITE MESA PROCEDURES MANUAL

### Quarterly Inspection Data

1. Embankment Inspection: Embankments look good. Prairie dog  
holes along Cell 3 ditches filled in no new holes observed.  
When exposed lines has been observed areas covered promptly
  
2. Operations/Maintenance Review: Maintenance finished cover placement on C2 and has started cover  
placement at east end of C3.  
Continue to pump C2 slimes down  
Pumped some solution from C1 into C3
  
3. Post-construction Changes: Fly ash pond filled
  
4. Summary: Drillers and consultant in to drill four new monitor  
wells.  
C4a lines repairs being evaluated by Eng Dept.

Monthly Inspection Data

Date: 12/15/92

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

DISCHARGE

NO

Monthly Inspection Data

Date: 12/15/92

Inspector: A. L. Adkinson

2. Surface Water Control Structures

Diversion Ditch 1: looks good

Diversion Ditch 2: looks good

Diversion Ditch 3: looks good

Diversion Berm 2: looks good

Mill and Facilities Area Sedimentation Pond: \_\_\_\_\_

-NA-

Remarks: Placement of cover finished on cell 2 and  
started at east end of cell 3

Pumping #2 chlorine drain

Overspray Minimization Evaluation: \_\_\_\_\_

Not observed spraying was observed

# WEEKLY TAILINGS INSPECTION

DATE: 31 Dec. 1992  
INSPECTOR: S.R. Clark / A. Storch

1. Pond Elevations (msl, ft)

Cell 1-1: 5608.63  
Cell 2: dry puddle from snow  
Cell 3: 5595.99  
Cell 4A: not covering bottom

2. Underdrain liquid levels

Cell 1-1: dry  
Cell 2: 35.4' solid, 98gpm, 10 pumped  
Cell 3: dry  
Cell 4A: 118'6"

3. Settlement monitors

Cell 2 East: 5624.30  
Cell 2 West: 5619.92 @ 5622.07 @ 5623.35 @ 5618.2  
Cell 4A Toe: monthly, already done

4. Tailings Area Inspection (Note dispersal of blowing tailings) none exposed

5. Control Methods Implemented: none needed

6. Remarks: lots of snow cover still, lots of water running,  
cover on 3 advancing real well, #2 Gilmer drain pumping,  
#2 Sump pump frozen

7. Contaminated Waste Dump: dump area & sign in good shape

DAILY INSPECTION DATA

Inspector: W6 Bennett  
 Date: 12-31-92  
 Accompanied by: \_\_\_\_\_  
 Time: 0900 hrs

Any Item not "ok" must be documented. A check mark = OK, X = Action Required.

I. TAILINGS SLURRY TRANSPORT SYSTEM

Inspection Items	Condition of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
* Slurry Pipeline	Leaks, Damage, Blockage, Sharp Bends	ok	ok	ok	ok
* Pipeline Joints	Leaks, Loose Connections	↓	↓	↓	↓
* Pipeline Supports	Damage, Loss of Support				
* Valves	Leaks, Blocked, Closed				
* Point(s) of Discharge	Improper Location or Orientation				

*no slurry discharge*

II. OPERATIONAL SYSTEMS

Inspection Items	Conditions of Potential Concern	Cell 1-I	Cell 2	Cell 3	Cell 4A
* Water Level	Greater Than Operating Level, Large Change Since Previous Inspection	✓	✓	✓	✓
* Beach	Cracks, Severe Erosion, Subsidence	✓	✓	✓	✓
* Liner and Cover	Erosion of Cover, Exposure of Liner	✓	✓	✓	✓

III. DIKES AND EMBANKMENTS

Inspection Items	Conditions of Potential Concern	Dike 1-I	Dike 1-IA	Dike 2	Dike 3	Dike 4A-S	Dike 4A-W
* Slopes	Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak	✓	✓	✓	✓	✓	✓
* Crest	Cracks, Subsidence, Severe Erosion	✓	✓	✓	✓	✓	✓

IV. FLOW RATES	Slurry Line(s)	Pond Return	S-X Tails	Spray System
<i>0</i> * GPM				

V. PHYSICAL INSPECTION OF SLURRY LINE(S)

- \* Walked to Discharge Point
- \* Observed Entire Discharge Line

Yes  No   
 ✓ Yes  No

Inspector: W. B. Bennett  
Date: 12-31-92

VI. DUST CONTROL

- \* Dusting
- \* Wind Movement of Tailings

Precipitation: trace inches liquid  
General Meteorological Conditions:

VII. DAILY LEAK DETECTION CHECK

- \* Leak Detection System Under Cell 4A Checked.  Wet  Dry

Cell 2	Cell 3	Cell 4A
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Initial level 118'9"  
Final level \_\_\_\_\_  
Gallons pumped \_\_\_\_\_

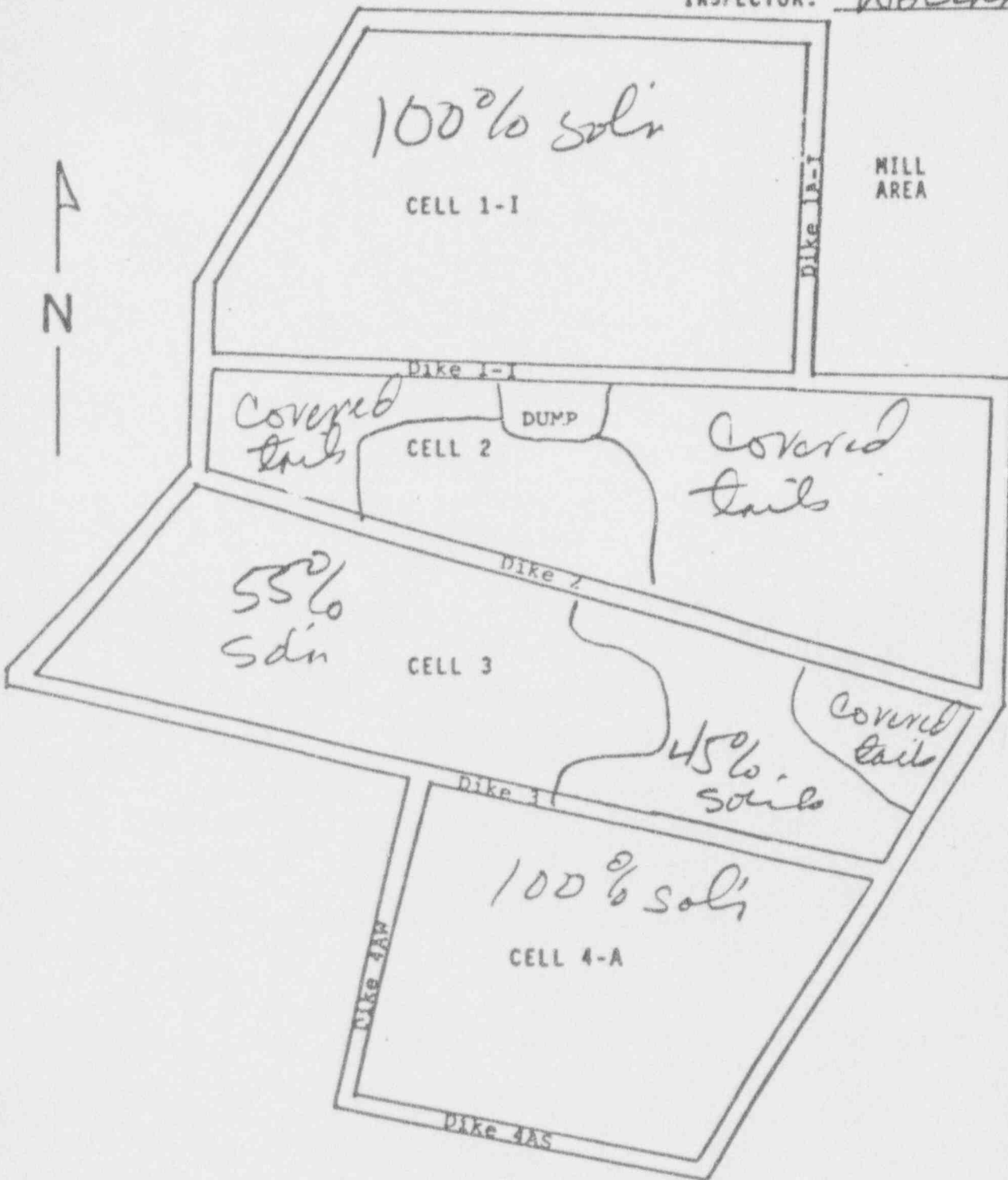
VIII. Observations of Potential Concern

Action Required



DAILY INSPECTION REPORT  
TAILINGS STORAGE DISCHARGE LOCATION

DATE: 12-31-92  
INSPECTOR: WB Bennett



LC261192

C2 = Cell 2, etc.

FAP = Fly Ash Pond

Date	Report Frequency	Area	Carried Forward?	General Observations - Observations of Potential Concern
01/01/93	Daily	C-1a	yes	Liner repairs being planned
01/04/93	Daily	C3	yes	Cover placement continues on C3
01/04/93	Daily	C2	yes	Pumping C2 slimes drain into C3
01/07/93	Daily	C2	yes	Pumping solution from C2 into C3
01/08/93	Daily	C11	yes	Liner damage noticed at C11. Notified WWB on 1-8-93. Notified NRC on Monday
01/10/93	Daily	ALL	yes	Roadways bad no checks made. Received 1.80 inches of moisture in last 3 days
01/11/93	Daily	ALL	yes	3 to 4 foot snow drifts no checks made. Cover placement stopped due to weather
01/11/93	Daily	ALL	yes	Water has been diverted around liner damaged area best as possible for now
01/12/93	Daily	ALL	no	Tailings roadways cleared so tailings inspections could be made
01/13/93	Daily	C2	no	Sump pump shut off solution pool is empty
01/16/93	Daily	ALL	yes	Roadways too muddy to make tailings inspection
01/20/93	Daily	C2	no	Able to make tailings checks. Pumping solution pool from C2 into C3
01/25/93	Daily	C3	no	Covered erosion channels at west end of C3
01/29/93	Daily	ALL	no	No checks made area too muddy
01/07/93	Weekly	C2	no	Pumping solution pool at C2 into C3. C2 Slimes drain pumping good.
01/14/93	Weekly	ALL	no	Too much snow and rain to make checks roads too bad
01/21/93	Weekly	ALL	no	Roadways not accessible due to deep snow and mud
01/26/93	Weekly	C2	no	C2 solution pool pump shut off due to lack of water to pump
01/28/93	Monthly	C3	no	Walked south dike of C3, C4 and diversion ditches no problem observed.

Rev. by W.B. 3/8/93

Monthly Inspection Data

Date: 1/28/13

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

*DISCHARGE*

*NO*

Monthly Inspection Data

Date: 1/28/93

Inspector: Sherman

2. Surface Water Control Structures

Diversion Ditch 1: Looks good

Diversion Ditch 2: Water pooled in several areas no water running through ditch. Looks good

Diversion Ditch 3: Looks good

Diversion Berm 2: Looks good

Mill and Facilities Area Sedimentation Pond: \_\_\_\_\_

-NA- Solution pool where ~~ash~~ fly ash pond once was.

Remarks: \_\_\_\_\_

Extremely wet conditions. Walked into diversion ditches due to muddy and snow conditions.

Overspray Minimization Evaluation: \_\_\_\_\_

None OBSERVED

# WEEKLY TAILINGS INSPECTION

DATE: 26 Jan. 1993  
INSPECTORS: S.R. Clark / A.R. Wilson

## 1. Pond Elevations (msl, ft)

Cell 1-I: 5609.95  
Cell 2: puddle pumped / pump off to  
Cell 3: 5596.85  
Cell 4A: not covering bottom

## 2. Underdrain liquid levels

Cell 1-I: dry  
Cell 2: 0.992 μohms  
35.11' Feet to liquid  
0 Gallons  
Cell 3: dry  
Cell 4A: Begin  
119'2" End

## 3. Settlement monitors

Cell 2 East: 5624.28  
Cell 2 W 1: 5619.45  
Cell 2 W 2: 5621.83  
Cell 2 W 3: 5618.27  
Cell 2 W 4: 5618.11  
Cell 4A Toe: 5577.00

4. Tailings Area Inspection (Note dispersal of blowing tailings): none possible

5. Control Methods Implemented: Snow cover with monster crusting

6. Remarks: #2 Standpipe needs pumped, will try to go in on the crust early in the morning, #2 Slimes drain down #2 pump pump turned off due to lack of water to pump, VERY VERY Heavy Crusting during nights

7. Contaminated Waste Dump: sign of dump area in good shape, being used today as it is first day access has been possible



Inspector: W.G. Bennett  
 Date: 1-31-93  
 Accompanied by: \_\_\_\_\_  
 Time: 0710

Any Item not "ok" must be documented. A check mark = OK, X = Action Required.

**I. TAILINGS SLURRY TRANSPORT SYSTEM**  
Inspection Items      Condition of Potential Concern

- Slurry Pipeline
  - Pipeline Joints
  - Pipeline Supports
  - Valves
  - Point(s) of Discharge
- Leaks, Damage, Blockage, Sharp Bends  
 Leaks, Loose Connections *no slurry*  
 Damage, Loss of Support *discharge*  
 Leaks, Blocked, Closed  
 Improper Location or Orientation

Cell 1-I	Cell 2	Cell 3	Cell 4A
ok	ok	ok	ok
↓	↓	↓	↓

**II. OPERATIONAL SYSTEMS**  
Inspection Items

- Water Level
  - Beach
  - Liner and Cover
- Greater Than Operating Level, Large Change Since Previous Inspection  
 Cracks, Severe Erosion, Subsidence  
 Erosion of Cover, Exposure of Liner

Conditions of Potential Concern

Cell 1-I	Cell 2	Cell 3	Cell 4A
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓

**III. DIKES AND EMBANKMENTS**  
Inspection Items

- Slopes
  - Crest
- Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak  
 Cracks, Subsidence, Severe Erosion

Conditions of Potential Concern

Dike 1-I	Dike 1-IA	Dike 2	Dike 3	Dike 4A-S	Dike 4A-W
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓

**IV. FLOW RATES**

slurry Line(s)	Pond Return	S-X Tails	Spray System
<i>0</i> • GPM			

**V. PHYSICAL INSPECTION OF SLURRY LINE(S)**

- Walked to Discharge Point
- Observed Entire Discharge Line

Yes  No   
 Yes  No



Inspector: WBS  
 Date: 1-31-93

Cell 2	Cell 3	Cell 4A
✓	✓	✓

**DUST CONTROL**

- Dusting
- Wind Movement of Tailings

Precipitation: 01 inches liquid  
 serial Meteorological Conditions:

**DAILY LEAK DETECTION CHECK**

- Leak Detection System Under Cell 4A Checked.  Wet  Dry

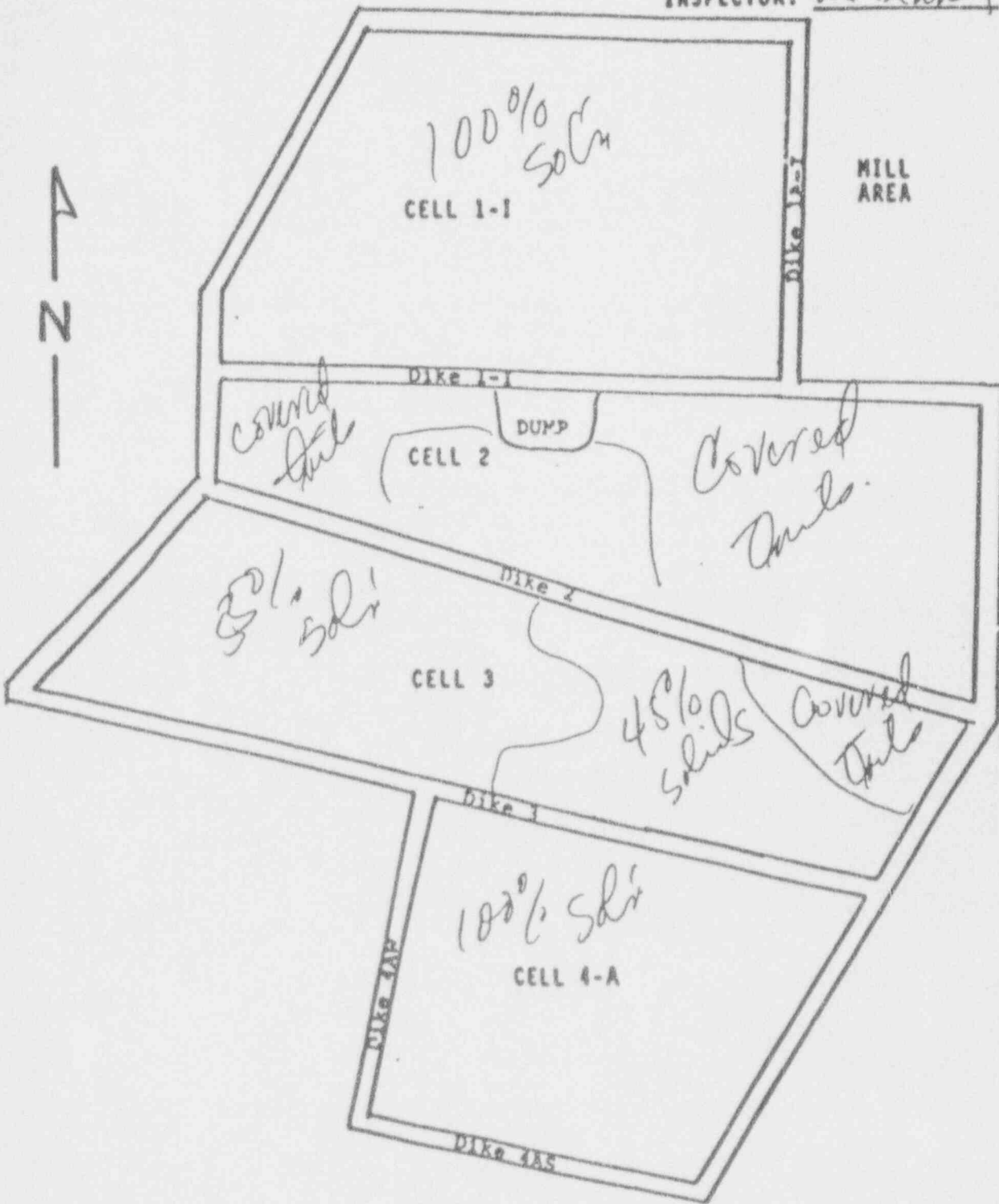
Initial level 119'3"  
 Final level \_\_\_\_\_  
 Gallons pumped \_\_\_\_\_

**Action Required**

**I. Observations of Potential Concern**

DAILY INSPECTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 1-31-93  
INSPECTOR: W. Bennett



Rev. by WS  
3/24/93

LC261192

C2 = Cell 2, etc.

FAP = Fly Ash Pond

Date	Report Frequency	Area	Carried Forward?	General Observations - Observations of Potential Concern
02/01/93	Daily	C4a	yes	Liner repairs being planned C4a
02/01/93	Daily	C1I	yes	Liner repairs planned to C1I when weather permits
02/01/93	Daily	C2	no	Walked C4A and C3 along south bank only small erosion channels observed
02/07/93	Daily	C2	yes	Pumping solution from C2 into C3
02/08/93	Daily	C3	no	Covered small area of exposed liner along west bank
02/09/93	Daily	C1I	yes	Water from rain and melting snow washing liner cover off C1I
02/10/93	Daily	C1I	yes	Maintenance recovering and repairing the liner at east end of C1I
02/11/93	Daily	C3	no	Covered exposed liner areas at west end of C3
02/12/93	Daily	C3	no	Several areas of exposed liner along north side of C3 will place cover ASAP
02/15/93	Daily	C1I	no	Liner repairs completed at C1I. Drain placed in area to minimize further problems
02/15/93	Daily	C3	no	Covered the 5 erosion channels on north bank of C3. No liner damage observed
02/16/93	Daily	C2	no	Shut solution pool pump off in C2
02/17/93	Daily	C2	no	Maintenance crew working on unsticking D-6 Cat stuck on C2 cover
02/19/93	Daily	ALL	no	No checks made area to muddy
02/20/93	Daily	ALL	no	No checks made area to muddy
02/22/93	Daily	C3	yes	Several large areas of exposed liner at C3 need covered when weather permits
02/24/93	Daily	ALL	no	No checks made area to muddy
02/20/93	Daily	ALL	no	Covered areas of exposed liner at C1I, C2 and C3. Cover will need hauled to C3
02/04/93	Weekly	C2	no	Pumping solution pool from C2 into C3
02/11/93	Weekly	C3	yes	Liner showing in several places on north sider of C3 due to runoff
02/18/93	Weekly	C2	no	Started solution pool pump in C2
02/26/93	Weekly	C2	no	Tailings area access lousy puddles all over
02/25/93	Monthly	C3	no	Walked south dike of C3, C4 and diversion ditches no problem observed.

Monthly Inspection Data

Date: 2-25-93

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
    General Pipeline Condition: \_\_\_\_\_  
    Results (thickness, etc.): \_\_\_\_\_  
    Action Required: \_\_\_\_\_

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

# WEEKLY TAILINGS INSPECTION

DATE: 26 February 1993  
INSPECTORS: J.R. Wilson / S.L. Sch

1. Pond Elevations (msl, ft)

Cell 1-I: 5610.51  
Cell 2: puddle  
Cell 3: 5601.31  
Cell 4A: mat covering bottom

2. Underdrain liquid levels

Cell 1-I: dry  
Cell 2: X  $\mu$ ohms  
Feet to liquid  
Gallons  
Cell 3: dry  
Cell 4A: 11' 6" Begin  
End

3. Settlement monitors

Cell 2 East: X  
Cell 2 W 1: X  
Cell 2 W 2: X  
Cell 2 W 3: X  
Cell 2 W 4: X  
Cell 4A Toe: X

4. Tailings Area Inspection (Note dispersal of blowing tailings): none noted

5. Control Methods Implemented: none needed

6. Remarks: busy week Scott & John surveyed on Friday

7. Contaminated Waste Dump: dump area & sign ok, access busy, puddles all over

DAILY INSPECTION DATA

Inspector: W. Bennett  
 Date: 2-28-93  
 Accompanied by: \_\_\_\_\_  
 Time: 0740

Any item not "ok" must be documented. A check mark = OK, X = Action Required.

| I. TAILINGS SLURRY TRANSPORT SYSTEM |   | Cell 1-I  | Cell 2    | Cell 3    | Cell 4A   |
|-------------------------------------|---|-----------|-----------|-----------|-----------|
| <u>Inspection Items</u>             | <u>Condition of Potential Concern</u>     | <u>ok</u> | <u>ok</u> | <u>ok</u> | <u>ok</u> |
| • Slurry Pipeline                   | Leaks, Damage, Blockage, Sharp Bends      | ↓         | ↓         | ↓         | ↓         |
| • Pipeline Joints                   | Leaks, Loose Connections <i>w/ slurry</i> |           |           |           |           |
| • Pipeline Supports                 | Damage, Loss of Support <i>discharge</i>  |           |           |           |           |
| • Valves                            | Leaks, Blocked, Closed                    |           |           |           |           |
| • Point(s) of Discharge             | Improper Location or Orientation          |           |           |           |           |

| II. OPERATIONAL SYSTEMS |  | Cell 1-I | Cell 2 | Cell 3 | Cell 4A |
|-------------------------|--|----------|--------|--------|---------|
| <u>Inspection Items</u> | <u>Conditions of Potential Concern</u>                               | ✓        | ✓      | ✓      | ✓       |
| • Water Level           | Greater Than Operating Level, Large Change Since Previous Inspection | ✓        | ✓      | ✓      | ✓       |
| • Beach                 | Cracks, Severe Erosion, Subsidence                                   | ✓        | ✓      | ✓      | ✓       |
| • Liner and Cover       | Erosion of Cover, Exposure of Liner                                  |          |        |        |         |

| I. DIKES AND EMBANKMENTS |   | Dike 1-I | Dike 1-IA | Dike 2 | Dike 3 | Dike 4A-S | Dike 4A-W |
|--------------------------|---|----------|-----------|--------|--------|-----------|-----------|
| <u>Inspection Items</u>  | <u>Conditions of Potential Concern</u>  | ✓        | ✓         | ✓      | ✓      | ✓         | ✓         |
| • Slopes                 | Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak | ✓        | ✓         | ✓      | ✓      | ✓         | ✓         |
| • Crest                  | Cracks, Subsidence, Severe Erosion  | ✓        | ✓         | ✓      | ✓      | ✓         | ✓         |

| FLOW RATES | Slurry Line(s) | Pond Return | S-X Tails | Spray System |
|------------|----------------|-------------|-----------|--------------|
| • GPM      |                |             |           |              |

II. PHYSICAL INSPECTION OF SLURRY LINE(S)

• Walked to Discharge Point Yes  No   
 • Observed Entire Discharge Line Yes  No



Inspector: W. B. Bennett  
Date: 2-28-93

| Cell 2 | Cell 3 | Cell 4A |
|--------|--------|---------|
| ✓      | ✓      | ✓       |

DUST CONTROL

- \* Dusting
- \* Wind Movement of Tailings

Precipitation: 0 inches liquid

Local Meteorological Conditions:

Cloudy 0' crest  
DAILY LEAK DETECTION CHECK

\* Leak Detection System Under Cell 4A Checked.  Wet  Dry

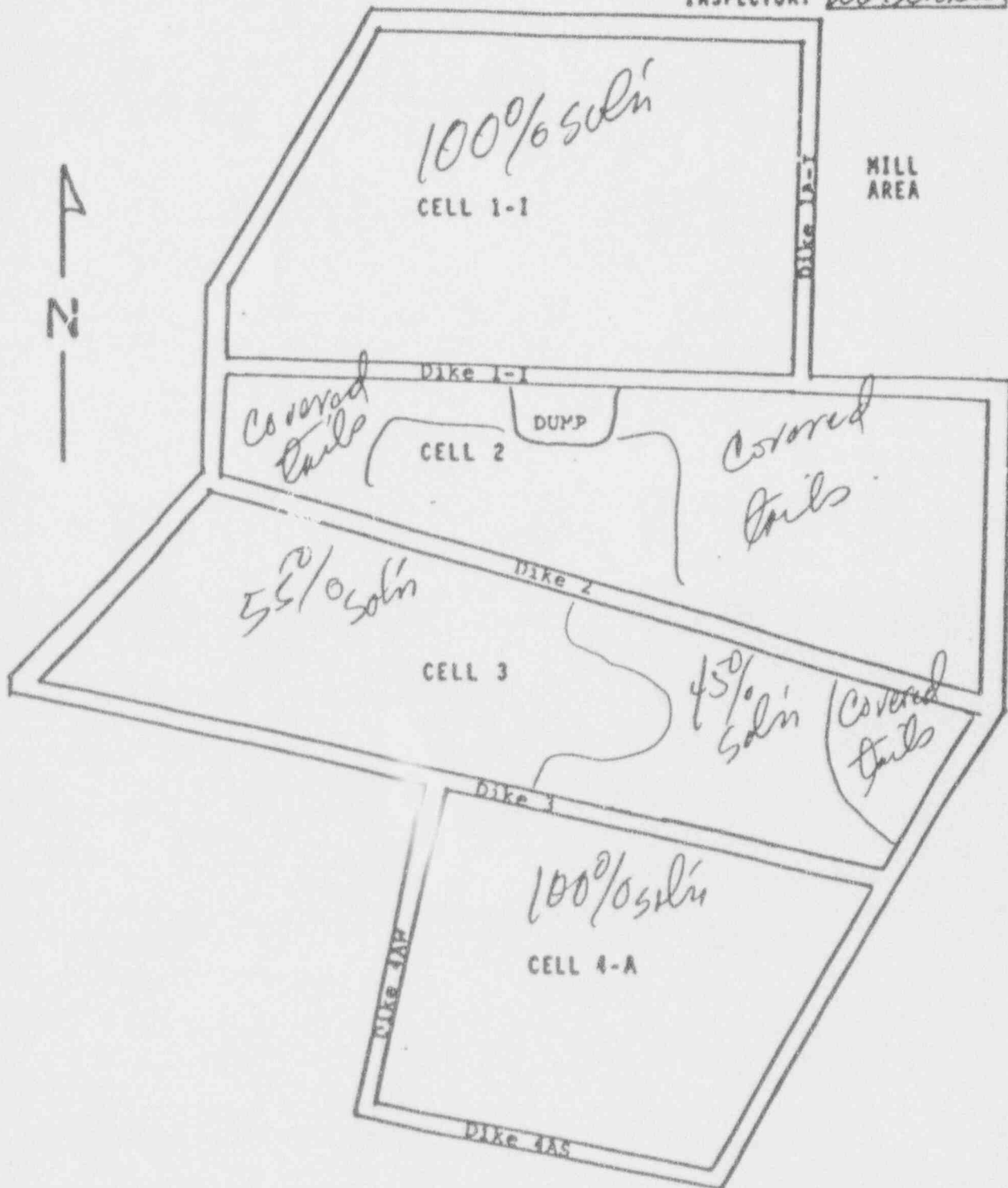
Initial level 18'6"  
Final level \_\_\_\_\_  
Gallons pumped \_\_\_\_\_

Action Required

II. Observations of Potential Concern

DAILY INSPECTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 2-28-93  
INSPECTOR: W. Bennett



LC261192

Rev. by *UB*  
4/8/93

C2 = Cell 2, etc.

FAP = Fly Ash Pond

| Date     | Report Frequency | Area | Carried Forward? | General Observations – Observations of Potential Concern                      |
|----------|------------------|------|------------------|---|
| 03/01/93 | Daily            | C4a  | yes              | Liner repairs being planned C4a   |
| 03/01/93 | Daily            | C11  | no               | Covered areas of exposed liner on north bank of C11                           |
| 03/01/93 | Daily            | C3   | no               | Hauled fill dirt to cover exposed liner at NW bank of C3                      |
| 03/01/93 | Daily            | C2   | no               | Pumping solution from C2 into C3. Prairie dog observed south of C3            |
| 03/02/93 | Daily            | C3   | no               | Rad tech's observed covering prairie dog holes for control measures           |
| 03/03/93 | Daily            | C3   | no               | Prairie dogs observed on dike at south side of C3                             |
| 03/04/93 | Daily            | ALL  | no               | Maintenance has been grading roads on tailings to remove huge ruts            |
| 03/05/93 | Daily            | C2   | yes              | Pumping accumulated water from snow melt from solution pool in C2 into C3     |
| 03/08/93 | Daily            | C11  | no               | Covered several small areas of exposed liner at west bank of C11              |
| 03/08/93 | Daily            | C3   | no               | Covered exposed liner in area where fill has been placed                      |
| 03/08/93 | Daily            | C2   | yes              | Slimes drain pump has quit working solution within 21" of top of pipe         |
| 03/11/93 | Daily            | C2   | no               | Slimes drain pump is repaired and pumping solutions into C3                   |
| 03/12/93 | Daily            | C3   | no               | Wind movement of tailings observed from south side of C3                      |
| 03/13/93 | Daily            | C3   | no               | Still pumping C2 solution pool. Prairie dogs observed south of C3 dike        |
| 03/14/93 | Daily            | C2   | yes              | C2 slimes drain pump quit work order turned in                                |
| 03/15/93 | Daily            | C3   | no               | Electrician working on slime drain pump. Cover placement started SE corner C3 |
| 03/17/93 | Daily            | C11  | no               | Maintenance working on solution transfer pump in C11                          |
| 03/21/93 | Daily            | C3   | no               | Some dusting observed from C3   |
| 03/22/93 | Daily            | C3   | no               | Cover placement stopped due to muddy conditions from rains last week          |
| 03/24/93 | Daily            | C4A  | no               | Maintenance installing water line from recapture line at 5 well into C4A      |
| 03/03/93 | Weekly           | C4A  | no               | Pumped C4A leak detection system. Pumping solution pool in C2                 |
| 03/10/93 | Weekly           | C3   | no               | Covered prairie dog holes and inspected dikes                                 |
| 03/18/93 | Weekly           | C3   | yes              | Cover placement has resumed on C3 this week. Pump repaired in C2 slimes drain |
| 03/25/93 | Weekly           | C2   | no               | Some blowing tailings observed in moderately high winds                       |
| 03/31/93 | Monthly          | C3   | no               | Cover placement resumed at C3. Some tumble weeds removed from ditch 3         |

Inspector 3-31-93  
Date Achimman

## WHITE MESA PROCEDURES MANUAL

### Quarterly Inspection Data

1. Embankment Inspection: Looks good Some work has started  
on vertical of prairie dog to south of cell 3. Covered several areas  
of exposed lines on cells 1, 2 and 3. Made repairs to cell 15  
liner problems.
  
2. Operations/Maintenance Review: \_\_\_\_\_  
Maintenance placing cover at east end of cell 3  
Continue to pump #2 down drain  
Pumping fresh water into cell 4 for dilution of pH
  
3. Post-construction Changes: \_\_\_\_\_  
Fly ash pond filled
  
4. Summary: Cell 4a liner repairs being evaluated by  
Engineering department

Monthly Inspection Data

Date: 3-31-93  
~~4-5-93~~

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

NO  
DISCHARGE

Monthly Inspection Data

Date: 3-31-93

Inspector: Schiman

2. Surface Water Control Structures

Diversion Ditch 1: Good

Diversion Ditch 2: Good

Diversion Ditch 3: Good small amount of tumble weeds observed.

Diversion Berm 2: Good

Mill and Facilities Area Sedimentation Pond:

Area dry no pooling

Remarks: Placing cover on east end of cell 3

Overspray Minimization Evaluation:

None No Sprays.



# WEEKLY TAILINGS INSPECTION

DATE: 3/25/93  
INSPECTORS: SPC/JRW ist

## 1. Pond Elevations (msl, ft)

Cell 1-1: 5609.65  
Cell 2: puddle (pumped today)  
Cell 3: 5597.45  
Cell 4A: mat covering bottom

## 2. Underdrain liquid levels

Cell 1-1: Dry  
Cell 2: 1,390  $\mu$ ohms  
35.68 Feet to liquid  
2g Gallons  
Cell 3: Dry  
Cell 4A: Begin  
119'1" End

## 3. Settlement monitors

Cell 2 East: 5624.27  
Cell 2 W 1: 5618.75  
Cell 2 W 2: 5620.99  
Cell 2 W 3: 5617.49  
Cell 2 W 4: 5617.26  
Cell 4A Toe: 5577.00

4. Tailings Area Inspection (Note dispersal of blowing tailings): some noted 3-24-93  
afternoon moderately high winds

5. Control Methods Implemented: Covering Cell 3 for control

6. Remarks: #2 slimes drain pumping, pumped puddle in Cell -  
cover moving well on Cell 3, prairie dog patrol turned up  
no serious holes on any dikes,

7. Contaminated Waste Dump: dump area & sign in good shape

DAILY INSPECTION DATA

Inspector: W. K. Bennett  
 Date: 3-21-63  
 Accompanied by:  
 Time: 0800 hrs

Item not "ok" must be documented. A check mark = OK, X = Action Required.

I. TAILINGS SLURRY TRANSPORT SYSTEM  
 Condition of Potential Concern

| Inspection Item       | Cell 1-I | Cell 2 | Cell 3 | Cell 4A |
|-----------------------|----------|--------|--------|---------|
| Leaky Pipeline        | ok       | ok     | ok     | ok      |
| Pipeline Joints       | ↓        | ↓      | ↓      | ↓       |
| Pipeline Supports     |          |        |        |         |
| Valves                |          |        |        |         |
| Point(s) of Discharge |          |        |        |         |

Leaky Pipeline, Blockage, Sharp Bends  
 Leaky, Loose Connections *no slurry discharge*  
 Damage, Loss of Support  
 Leaky, Blocked, Closed  
 Improper Location or Orientation

OPERATIONAL SYSTEMS  
 Conditions of Potential Concern

| Inspection Item  | Cell 1-I | Cell 2 | Cell 3 | Cell 4A |
|------------------|----------|--------|--------|---------|
| Water Level      | ✓        | ✓      | ✓      | ✓       |
| Beach            | ✓        | ✓      | ✓      | ✓       |
| Linear and Cover | ✓        | ✓      | ✓      | ✓       |

Greater Than Operating Level, Large Change Since Previous Inspection  
 Cracks, Severe Erosion, Subsidence  
 Erosion of Cover, Exposure of Liner

Dikes and Embankments  
 Conditions of Potential Concern

| Inspection Item | Dike 1-I | Dike 2 | Dike 3 | Dike 4A-E | Dike 4A-F |
|-----------------|----------|--------|--------|-----------|-----------|
| Slopes          | ✓        | ✓      | ✓      | ✓         | ✓         |
| Crest           | ✓        | ✓      | ✓      | ✓         | ✓         |

Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak  
 Cracks, Subsidence, Severe Erosion

| Flow Rates | Slurry Liner(s) | Pond Return | S-X Tails | Spray System |
|------------|-----------------|-------------|-----------|--------------|
| 0 GPM      |                 |             |           |              |

PHYSICAL INSPECTION OF SLURRY LINE(S)

- Walked to Discharge Point
- Observed Entire Discharge Line

Yes  No   
 Yes  No

Inspector: W. B. Semmler  
Date: 5-21-63

|        |        |         |
|--------|--------|---------|
| Call 2 | Call 3 | Call 4A |
| ✓      | ✓      | ✓       |
| ✓      | ✓      | ✓       |

**POST CONTROL**

- Dewatering
- Wind Movement of Tailings

Precipitation: 0 inches liquid  
verbal Meteorological Conditions:

**DAILY LEAK DETECTION CHECK**

Leak Detection System Under Cell 1A Checked.  Wet  Dry

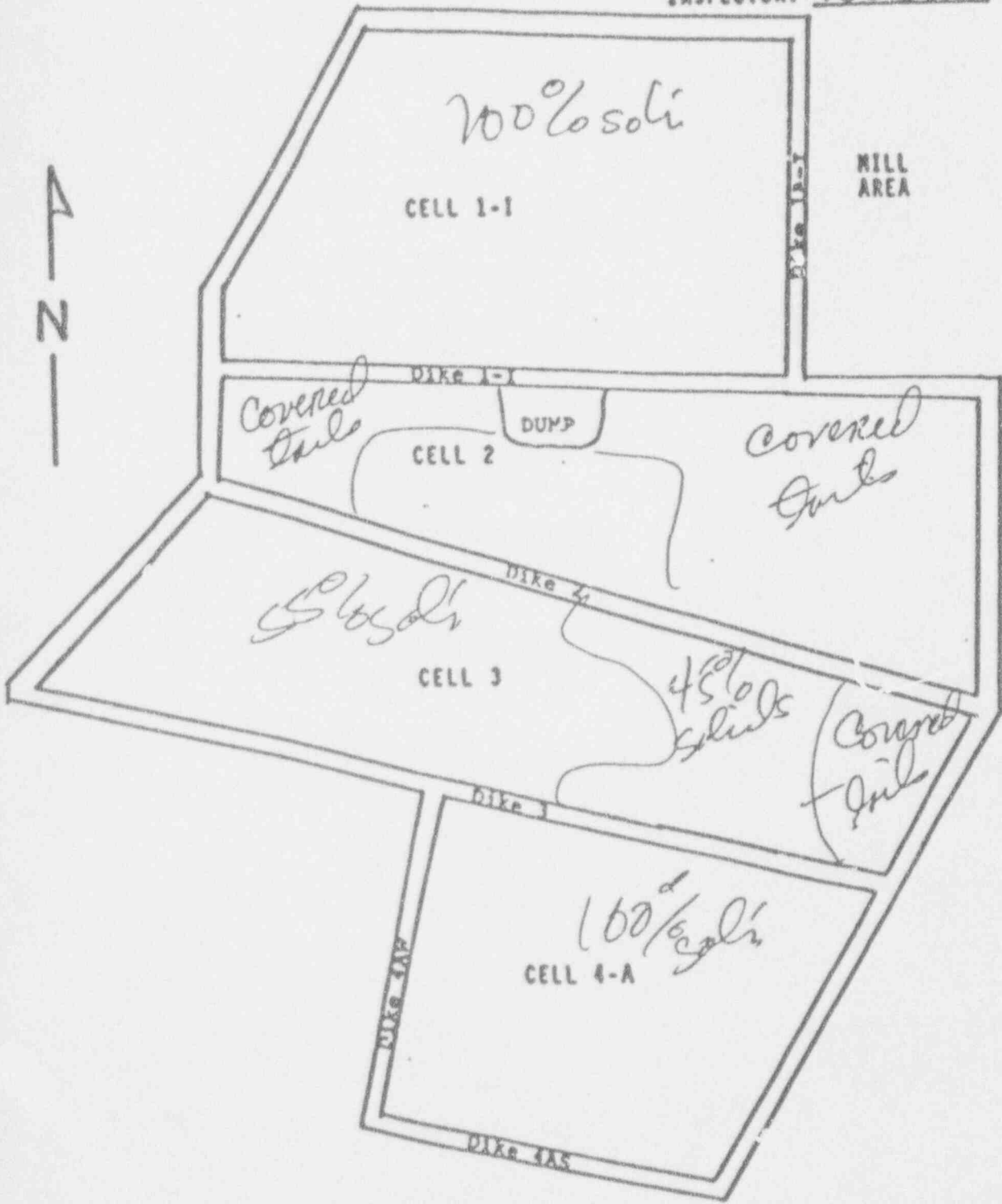
Initial level 119'2"  
Final level \_\_\_\_\_  
Callons pumped \_\_\_\_\_

Action Required

**I. Observations of Potential Concern**

DAILY INSPECTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 3-31-93  
INSPECTOR: W. B. Bennett



Rev. by *WB*  
5/18/93

LC26493

C2 = Cell 2, etc.  
FAP = Fly Ash Pond

| Date     | Report Frequency | Area | Carried Forward? | General Observations – Observations of Potential Concern                      |
|----------|------------------|------|------------------|---|
| 04/01/93 | Daily            | C4a  | yes              | Liner repairs being planned C4a repairs are planned in early April            |
| 04/01/93 | Daily            | C2   | no               | Pumped solution pool from C2 into C3. Pumping recapture water into C4A        |
| 04/01/93 | Daily            | C3   | yes              | Maintenance placing cover on east end of C3                                   |
| 04/02/93 | Daily            | C3   | no               | Tailings sand observed blowing from C3 into C4A                               |
| 04/05/93 | Daily            | C3   | no               | Prairie dog hole found inside dike at C3 no liner damage about 3' long        |
| 04/05/93 | Daily            | C3   | no               | Dusting observed from C3 in winds gusting at 40 mph                           |
| 04/08/93 | Daily            | C2   | no               | Pumped solution pool from C2 into C3. solution levels being surveyed          |
| 04/08/93 | Daily            | C2   | yes              | Pumping solution from C11 into C3 line is checked every two hours             |
| 04/09/93 | Daily            | C4a  | no               | Pumping recapture water into C4a  |
| 04/11/93 | Daily            | C3   | no               | Prairie dogs observed south of C3. Dogs were shot                             |
| 04/12/93 | Daily            | C3   | yes              | Some dusting observed at SW and NW corners of C3 in winds at 40 mph           |
| 04/13/93 | Daily            | ALL  | no               | Environmental techs doing a tailings pond inspection                          |
| 04/16/93 | Daily            | C2   | no               | Dump at C2 being covered area to wet will try latter                          |
| 04/17/93 | Daily            | ALL  | no               | Maintenance working on cannons at tailings                                    |
| 04/25/93 | Daily            | C2   | yes              | Recapture water being pumped into C3  |
| 04/26/93 | Daily            | C11  | no               | Pumping solutions from C1 into C3 continues                                   |
| 04/01/93 | Weekly           | C4A  | no               | Putting recapture water into C4A since Tuesday                                |
| 04/08/93 | Weekly           | C4A  | no               | Pumping solutions from C11 into C3. Recapture water being added into C4A      |
| 04/15/93 | Weekly           | C3   | no               | Covering and raising liquor levels in C3 for dust minimization                |
| 04/22/93 | Weekly           | C3   | yes              | Solution levels in C3 are below the 1ft markers placed last week              |
| 04/29/93 | Weekly           | C2   | no               | Still pumping solutions from C1 into C3. Cover placement continues            |
| 04/29/93 | Monthly          | C3   | no               | Cover placement continues at C3. Tailings solution continue to be transferred |

Monthly Inspection Data

Date: 1-29-95

Inspector: Schiem

2. Surface Water Control Structures

Diversion Ditch 1: Good some tumble weeds

Diversion Ditch 2: Good

Diversion Ditch 3: Good

Diversion Berm 2: Good

Mill and Facilities Area Sedimentation Pond: Fly ash pond filled  
is

Remarks: Cover placement continues at cell 3, cell 1E has  
been pumped into cell 3

Overspray Minimization Evaluation: none



Monthly Inspection Data

Date: 4/29/93

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

DISCARDABLE

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

N/D

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

# WEEKLY TAILINGS INSPECTION

DATE: 4-29-93

INSPECTORS: S.R. Clark / J.R. Wilson

1. Pond Elevations (msl, ft)

Cell 1-I: 5608.07 islands msl  
Cell 2: dry  
Cell 3: 5609.23  
Cell 4A: not covering bottom

2. Underdrain liquid levels

Cell 1-I: dry  
Cell 2: 1,655  $\mu$ ohms  
35.51 Feet to liquid  
32 Gallons  
Cell 3: dry  
Cell 4A: 119' 1" Begin  
End

3. Settlement monitors

Cell 2 East: 5624.27  
Cell 2 W 1: 5619.47  
Cell 2 W 2: 5621.67  
Cell 2 W 3: 5618.21  
Cell 2 W 4: 5618.01  
Cell 4A Toe: 5576.60

4. Tailings Area Inspection (Note dispersal of blowing tailings): some noted  
mostly between 3 + 4

5. Control Methods Implemented: Covering to control & raising  
liquid levels as high as we can do help

6. Remarks: still pumping 1 to 3 and adding Recapture  
water to 3, cover is advancing nicely

7. Contaminated Waste Dump: dump area & signs in good shape  
pushed during weekend

DAILY INSPECTION DATA

Inspector: Y. G. F. F. F.  
 Date: 4-30-88  
 Accompanied by: AG  
 Time: 11:30 AM

Item not "ok" must be documented. A check mark = OK, X = Action Required.

I. TAILINGS SLURRY TRANSPORT SYSTEM  
 Condition of Potential Concern

Inspection Items

|                       | Cell 1-I | Cell 2 | Cell 3 | Cell 4A |
|-----------------------|----------|--------|--------|---------|
| Slurry Pipeline       | ok       | ok     | ok     | ok      |
| Pipeline Joints       |          |        |        |         |
| Pipeline Supports     |          |        |        |         |
| Valves                |          |        |        |         |
| Point(s) of Discharge |          |        |        |         |

Leaks, Damage, Blockage, Sharp Bends  
 Leaks, Loose Connections NO SLURRY  
 Damage, Loss of Support DISCHARGE  
 Leaks, Blocked, Closed  
 Improper Location or Orientation

OPERATIONAL SYSTEMS

Inspection Items

|                 | Cell 1-I | Cell 2 | Cell 3 | Cell 4A |
|-----------------|----------|--------|--------|---------|
| Water Level     |          |        |        |         |
| Beach and Cover |          |        |        |         |

Conditions of Potential Concern  
 Greater Than Operating Level, Large Change Since Previous Inspection  
 Cracks, Severe Erosion, Subsidence  
 Erosion of Cover, Exposure of Liner

DAMS AND EMBANKMENTS

Inspection Items

|       | Dike 1-I | Dike 2 | Dike 3 | Dike 4A-I |
|-------|----------|--------|--------|-----------|
| Loops |          |        |        |           |
| Crest |          |        |        |           |

Conditions of Potential Concern  
 Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak  
 Cracks, Subsidence, Severe Erosion

FLOW RATES

| Slurry Line(s) | Pond Status | S-X Tails | Spray System |
|----------------|-------------|-----------|--------------|
| 0              | 0           | 0         | 0            |

PHYSICAL INSPECTION OF SLURRY LINE(S) NO DISCHARGES WILL DOWN

Walked to Discharge Point  Yes  No  
 Observed Entire Discharge Line  Yes  No

Inspector: [Signature]  
 Date: 11/21/03

I. POST CURTIN

- Ducting NONE
- Wind Movement of Tailings NINE

| CELL 3   | CELL 3   | CELL 4A  |
|----------|----------|----------|
| <u>✓</u> | <u>✓</u> | <u>✓</u> |

Freeplay/loss: .00 inches liquid

Normal meteorological conditions:  
*partly cloudy - mild warm*

II. DAILY LEAK DETECTION CHECK

- Leak Detection system under Cell 4A checked. ✓ wet     DRY

Initial level 19.2"  
 Final level      
 Gallons pumped    

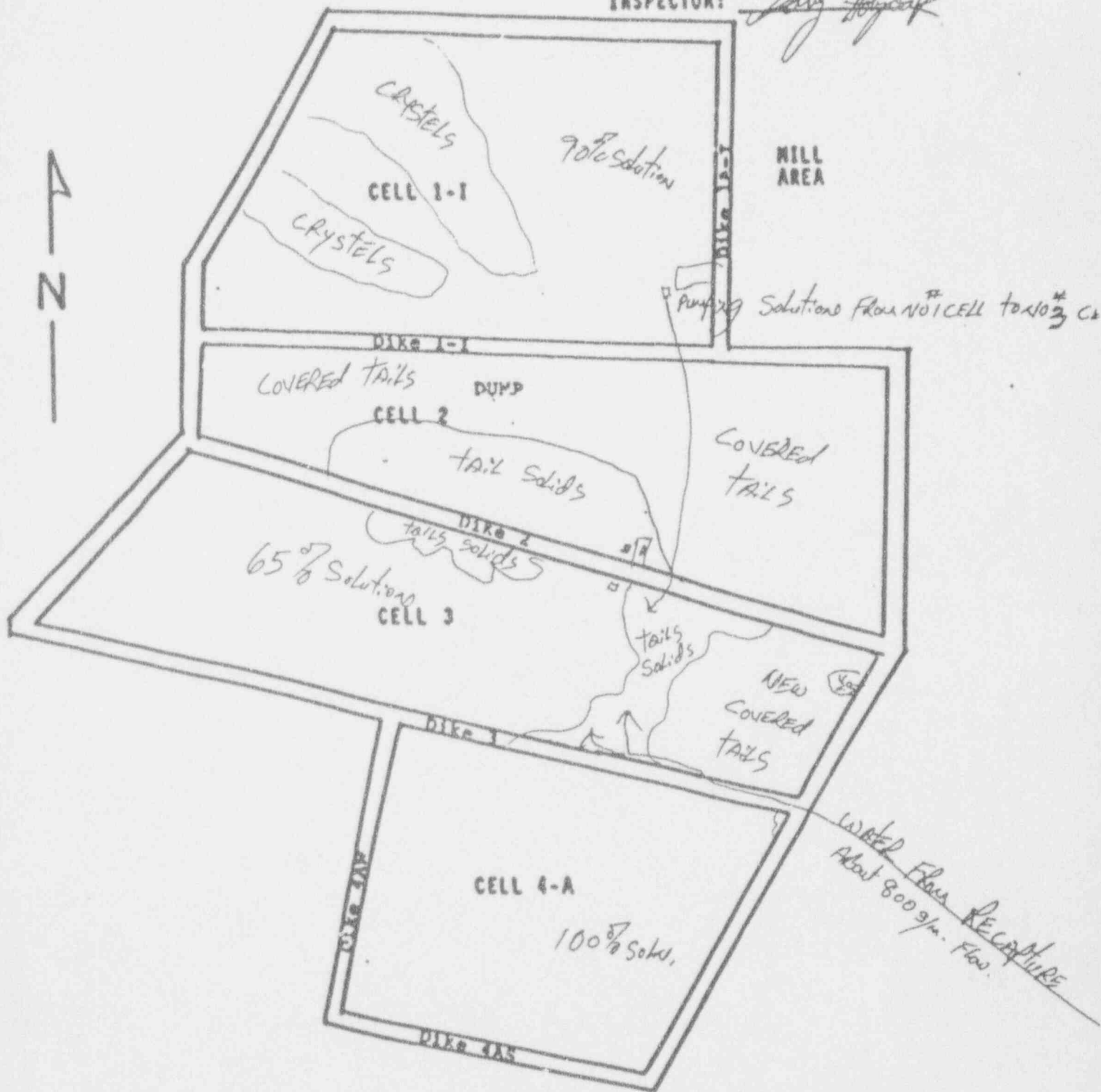
VIII. Observations of Potential Concern

Action Required

|  |  |
|--|--|
|  |  |
|--|--|

DAILY INSPECTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 4-30-93  
INSPECTOR: Jerry J. [Signature]



LC26593

C2 = Cell 2, etc.  
FAP = Fly Ash Pond

Rev. by UB  
6/16/93  
OK.

| Date     | Report Frequency | Area | Carried Forward? | General Observations – Observations of Potential Concern                      |
|----------|------------------|------|------------------|---|
| 05/01/93 | Daily            | C3   | yes              | Pumping recapture water into C3. Pumping solutions from C11 into C3           |
| 05/01/93 | Daily            | C4A  | yes              | Liner repairs planned to C4A in early May. Cover continues at C3              |
| 05/03/93 | Daily            | C3   | yes              | Some evidence of dusting observed at C3. Covering dry sandy areas             |
| 05/04/93 | Daily            | C3   | no               | Watered haulage road to minimize dusting from equipment traffic               |
| 05/05/93 | Daily            | C2   | no               | Solution pool from C2 being pumped into C3                                    |
| 05/06/93 | Daily            | C4A  | no               | Inspected liner at C4A marking holes in liner for repairs                     |
| 05/07/93 | Daily            | C4A  | no               | Crest liner crew making repairs to liner at C4A                               |
| 05/09/93 | Daily            | C3   | no               | Some prairie dogs observed below C3   |
| 05/11/93 | Daily            | C2   | no               | Pumping slimes drain solution   |
| 05/13/93 | Daily            | C3   | no               | Solution level is at stake 1ft below freeboard stopped solution transfer      |
| 05/14/93 | Daily            | C4A  | no               | Maintenance waging sands of liner at 4A                                       |
| 05/15/93 | Daily            | C3   | no               | Watered and bladed haulage roads at C3  |
| 05/17/93 | Daily            | C3   | no               | Covered small area of exposed liner at west corner of C3                      |
| 05/18/93 | Daily            | C3   | no               | Cover placement stopped due to slick conditions                               |
| 05/19/93 | Daily            | C3   | no               | Moving old tailings lines in C3   |
| 05/21/93 | Daily            | C3   | no               | Maintenance crew placing cover at C3 area has dried out                       |
| 05/27/93 | Daily            | C4A  | no               | Pumped solution pool from C2 into C3  |
| 05/28/93 | Daily            | C3   | no               | Received 0.98 inches of rain in 20 minutes. Exposed several areas of liner    |
| 05/29/93 | Daily            | C3   | no               | Will cover areas of exposed liner when area dries out                         |
| 05/30/93 | Daily            | C2   | no               | Shut pump at solution pool at C2 off  |
| 05/31/93 | Daily            | C3   | no               | Areas of exposed liner from recent storm were covered today                   |
| 05/06/93 | Weekly           | C3   | no               | Movement monitors surveyed monthly. High water level in C3 6" below freeboard |
| 05/13/93 | Weekly           | C4A  | no               | Crestliner making repairs to C4A. Solution transfer from C11 stopped          |
| 05/20/93 | Weekly           | C3   | no               | Cover placement continues at C3   |
| 05/24/93 | Weekly           | C3   | no               | Cover placement continues at C3   |
| 05/01/93 | Weekly           | C2   | no               | Still pumping solutions from C1 into C3. Cover placement continues            |
| 05/23/93 | Monthly          | C3   | no               | Placed flagging and brass tags on movement points at C3                       |



Monthly Inspection Data

Date: 5/23/93

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

DISCHARGE

NO

Monthly Inspection Data

Date: 5/23/93

Inspector: Schirman

2. Surface Water Control Structures

Diversion Ditch 1: Good

Diversion Ditch 2: Ditch Good. Tumble weeds need cleaned out in one area

Diversion Ditch 3: Ditch good. Tumble weeds need cleaned out in several areas.

Diversion Berm 2: Good.

Mill and Facilities Area Sedimentation Pond: Fly Ash pond filled

Remarks: Maintenance advancing covers at cell 3

Placed flagging and brass tags on movement points at cell 3

Overspray Minimization Evaluation: -NA-

# WEEKLY TAILINGS INSPECTION

DATE: 24 May 1993  
INSPECTORS: S.R.C. / J.R.W.

1. Pond Elevations (msl, ft)

Cell 1-I: 5606.27  
Cell 2: dry (pumping pudd)  
Cell 3: 5602.55  
Cell 4A: mat covering bottom

2. Underdrain liquid levels

Cell 1-I: dry  
Cell 2: 1.230  $\mu$ ohms  
35.87 Feet to liquid  
0 Gallons  
Cell 3: dry  
Cell 4A: 0 Begin  
119'5" End

3. Settlement monitors

Cell 2 East: 5624.28  
Cell 2 W 1: 5618.46  
Cell 2 W 2: 5620.55 5621.55  
Cell 2 W 3: 5618.17  
Cell 2 W 4: 5618.09  
Cell 4A Toe: 5576.99

4. Tailings Area Inspection (Note dispersal of blowing tailings): none noted

5. Control Methods Implemented: none needed - Covering on Cell 3

6. Remarks: Pretty windy today,

7. Contaminated Waste Dump: Dump area & sign in good shape

DAILY INSPECTION DATA

Inspector: Gary Holbrook  
 Date: 5/23/93  
 Accompanied by: \_\_\_\_\_  
 Time: 9:30 AM

Any Item not "ok" must be documented. A check mark = OK, X = Action Required.

I. TAILINGS SLURRY TRANSPORT SYSTEM

| Inspection Items        | Condition of Potential Concern  | Cell 1-I | Cell 2 | Cell 3 | Cell 4A |
|-------------------------|---|----------|--------|--------|---------|
| • Slurry Pipeline       | Leaks, Damage, Blockage, Sharp Bends<br>Leaks, Loose Connections<br>Damage, Loss of Support<br>Leaks, Blocked, Closed<br>Improper Location or Orientation | ok       | ok     | ok     | ok      |
| • Pipeline Joints       |   | ↓        | ↓      | ↓      | ↓       |
| • Pipeline Supports     |   |          |        |        |         |
| • Valves                |   |          |        |        |         |
| • Point(s) of Discharge |   |          |        |        |         |

NO SLURRY DISCHARGE

I. OPERATIONAL SYSTEMS

| Inspection Items  | Conditions of Potential Concern                                      | Cell 1-I | Cell 2 | Cell 3 | Cell 4A |
|-------------------|--|----------|--------|--------|---------|
| • Water Level     | Greater Than Operating Level, Large Change Since Previous Inspection | ✓        | ✓      | ✓      | ✓       |
| • Beach           | Cracks, Severe Erosion, Subsidence                                   | X ✓      | ✓      | X ✓    | ✓       |
| • Liner and Cover | Erosion of Cover, Exposure of Liner                                  | X ✓      | ✓      | X ✓    | ✓       |

II. DIKES AND EMBANKMENTS

| Inspection Items | Conditions of Potential Concern   | Dike 1-I | Dike 1-IA | Dike 2 | Dike 3 | Dike 4A-S | Dike 4A-W |
|------------------|---|----------|-----------|--------|--------|-----------|-----------|
| • Slopes         | Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak | ✓        | ✓         | ✓      | ✓      | ✓         | ✓         |
| • Crest          | Cracks, Subsidence, Severe Erosion  | ✓        | ✓         | ✓      | ✓      | ✓         | ✓         |

IV. FLOW RATES

| Slurry Line(s) | Pond Return | S-X Tails | Spray System |
|----------------|-------------|-----------|--------------|
| ○              | ○           | ○         | ○            |

X-✓ LINNER SPOTS THAT WERE EXPOSED WERE COVERED THIS AM.

V. PHYSICAL INSPECTION OF SLURRY LINE(S) NO DISCHARGE RAIL DOWN.

- Walked to Discharge Point
- Observed Entire Discharge Line

Yes  No   
 Yes  No

Inspector: Jim [Signature]

Date: 5/23/73

| Cell 2                              | Cell 3                              | Cell 4A                             |
|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

I. DUST CONTROL

- Dusting
- Wind Movement of Tailings

NONE  
NONE

Precipitation: .00 inches liquid

General Meteorological Conditions:

Clear & Hot.

VII. DAILY LEAK DETECTION CHECK

- Leak Detection System Under Cell 4A Checked.  Wet  Dry

Initial level 119'6"

Final level           

Gallons pumped           

VIII. Observations of Potential Concern

1- EXPOSED LINER SPOTS CELL # 1 & 3

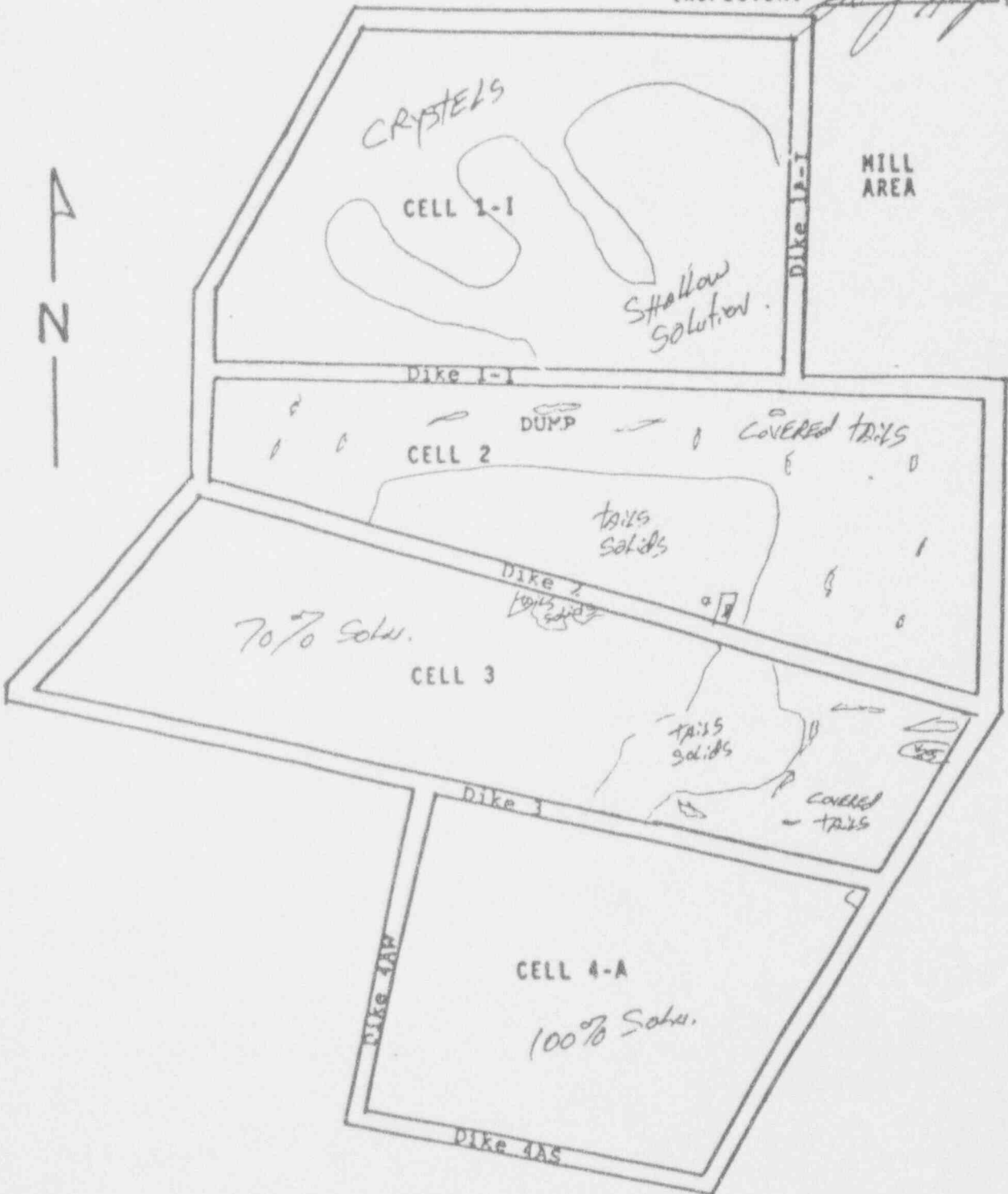
Action Required

1- WERE ALL COVERED BY 9:30 A.M.  
TODAY.

DAILY ACTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 5-31-93

INSPECTOR: *[Signature]*



Water from Stock



LC26693

Rev by  
W.B. 7/2/93

C2 = Cell 2, etc.

FAP = Fly Ash Pond

| Date     | Report Frequency | Area | Carried Forward? | General Observations -- Observations of Potential Concern                       |
|----------|------------------|------|------------------|---|
| 06/01/93 | Daily            | C4A  | yes              | Liner repairs rescheduled for later date  |
| 06/02/93 | Daily            | C4A  | no               | Pumped solution pools into C3   |
| 06/03/93 | Daily            | C3   | no               | Covered small area of exposed liner on South side of C3                         |
| 06/03/93 | Daily            | C3   | no               | Liner crew scheduled to resume repairs on C4A 6/14/93                           |
| 06/03/93 | Daily            | C3   | no               | Maintenance repaired liner area exposed during rain of .98" in 20 minutes       |
| 06/04/93 | Daily            | C4A  | no               | Environmental crew working on C4A leak detection system                         |
| 06/05/93 | Daily            | C4A  | yes              | Solution level in leak detection pipe not checked. HS/EA crew repairing tube    |
| 06/06/93 | Daily            | C3   | no               | Some tailings sands observed to be dusting from dry areas of C3                 |
| 06/07/93 | Daily            | C11  | no               | Covered areas of exposed liner in Cell 11 along N bank about 3' by 12' section  |
| 06/07/93 | Daily            | C3   | no               | Leak detection tube repaired  |
| 06/07/93 | Daily            | C4A  | no               | Found prairie dog hole on S side of C3. Dug out no liner damage found           |
| 06/08/93 | Daily            | C11  | no               | Covered 5 areas of exposed liner along North bank of C11                        |
| 06/09/93 | Daily            | C2   | no               | Slimes sump pump in C2 is down. Pump is in process of being repaired            |
| 06/14/93 | Daily            | C3   | no               | Some wind movement of tailings observed on C3. Installation of snow fence       |
| 06/14/93 | Daily            | C3   | no               | Increased control methods on prairie dogs at C3 dug holes found no liner damage |
| 06/17/93 | Daily            | C3   | yes              | Pumping solution from C11 into C3   |
| 06/20/93 | Daily            | C3   | no               | Finished pumping solutions from C11 into C3                                     |
| 06/21/93 | Daily            | C4A  | no               | Liner repairs scheduled for June 28th will delay until after 4th of July        |
| 06/28/93 | Daily            | C3   | no               | Poisoned several reoccurring prairie dog holes around and on C3                 |
| 06/04/93 | Weekly           | C3   | no               | Pumped small solution pool into C3. Pump in C4A leak detection down             |
| 06/10/93 | Weekly           | C3   | no               | Cover placement on C3 finished for the year                                     |
| 06/17/93 | Weekly           | C4A  | no               | Pumped C4A leak detection system. Pumping C11 solutions into C3                 |
| 06/24/93 | Weekly           | C3   | no               | Small amount of tailings sands observed to be dusting at C3                     |
| 06/30/93 | Weekly           | C2   | no               | Dump area and signage in good shape   |
| 06/29/93 | Monthly          | DIV  | no               | Tumble weeds cleaned out of diversion ditches                                   |
| 06/29/93 | Quarterly        | C3   | no               | Covered several areas of exposed liner. Pumped solutions from C11 into C3       |

# WEEKLY TAILINGS INSPECTION

DATE: 30 June 93  
INSPECTORS: S.R. Clark / J.R. White

1. Pond Elevations (msl, ft)

Cell 1-I: Dry  
Cell 2: Dry  
Cell 3: 5602.37  
Cell 4A: NOT COVERING BOTTOM

2. Underdrain liquid levels

Cell 1-I: dry  
Cell 2: 2,290  $\mu$ ohms  
35.91 Feet to liquid  
Q Gallons  
Cell 3: dry  
Cell 4A: 119.9" Begin  
End

3. Settlement monitors

Cell 2 East: 5624.29  
Cell 2 W 1: 5619.47  
Cell 2 W 2: 5621.60  
Cell 2 W 3: 5618.18  
Cell 2 W 4: 5618.04  
Cell 4A Toe: 5576.99

4. Tailings Area Inspection (Note dispersal of blowing tailings): none noted

5. Control Methods Implemented: none needed this week, cover for

6. Remarks: \_\_\_\_\_

7. Contaminated Waste Dump: dump area + sign in good shape

DAILY INSPECTION DATA

Inspector: Carroll  
 Date: 30 Sept 73  
 Accompanied by: \_\_\_\_\_  
 Time: 11:00 A.M.

Any Item not "ok" must be documented. A check mark = OK, X = Action Required.

| I. TAILINGS SLURRY TRANSPORT SYSTEM |   | Cell 1-I       | Cell 2         | Cell 3         | Cell 4A                     |           |           |
|-------------------------------------|---|----------------|----------------|----------------|-----------------------------|-----------|-----------|
| <u>Inspection Items</u>             | <u>Condition of Potential Concern</u>   | OK             | OK             | OK             | OK                          |           |           |
| • Slurry Pipeline                   | Leaks, Damage, Blockage, Sharp Bends  | <br> <br> <br> | <br> <br> <br> | <br> <br> <br> | <br> <br> <br>              |           |           |
| • Pipeline Joints                   | Leaks, Loose Connections  |                |                |                |                             |           |           |
| • Pipeline Supports                 | Damage, Loss of Support   |                |                |                |                             |           |           |
| • Valves                            | Leaks, Blocked, Closed  |                |                |                |                             |           |           |
| • Point(s) of Discharge             | Improper Location or Orientation  |                |                |                |                             |           |           |
| II. OPERATIONAL SYSTEMS             |   | Cell 1-I       | Cell 2         | Cell 3         | Cell 4A                     |           |           |
| <u>Inspection Items</u>             | <u>Conditions of Potential Concern</u>  | OK             | OK             | OK             | OK                          |           |           |
| • Water Level                       | Greater Than Operating Level, Large Change Since Previous Inspection                                  | <br> <br>      | <br> <br>      | <br> <br>      | <br> <br>                   |           |           |
| • Beach                             | Cracks, Severe Erosion, Subsidence  |                |                |                |                             |           |           |
| • Liner and Cover                   | Erosion of Cover, Exposure of Liner   |                |                |                |                             |           |           |
| III. DIKES AND EMBANKMENTS          |   | Dike 1-I       | Dike 1-IA      | Dike 2         | Dike 3                      | Dike 4A-S | Dike 4A-W |
| <u>Inspection Items</u>             | <u>Conditions of Potential Concern</u>  | OK             | OK             | OK             | OK                          | OK        | OK        |
| • Slopes                            | Sloughs or Sliding Cracks, Bulges, Subsidence, Severe Erosion, Moist Areas, Areas of Seepage Outbreak | <br> <br>      | <br> <br>      | <br> <br>      | <br> <br>                   | <br> <br> | <br> <br> |
| • Crest                             | Cracks, Subsidence, Severe Erosion  |                |                |                |                             |           |           |
| IV. FLOW RATES                      |   |                |                |                |                             |           |           |
| • GPM                               | Slurry Line(s)  | Pond Return    | S-X Tails      | Spray System   | 11/11 Shut du no discharges |           |           |
|                                     | - 0 -   | - 0 -          | - 0 -          | - 0 -          |                             |           |           |

V. PHYSICAL INSPECTION OF SLURRY LINE(S)

- Walked to Discharge Point
- Observed Entire Discharge Line

Yes  No   
 Yes  No

Inspector: Carroll  
Date: 30 June 93

| Cell 2 | Cell 3 | Cell 4A |
|--------|--------|---------|
| None   | None   | None    |
| None   | None   | Sand    |

VI. DUST CONTROL

- Dusting
- Wind Movement of Tailings

Precipitation: - 0 - inches liquid  
General Meteorological Conditions:

VII. DAILY LEAK DETECTION CHECK

• Leak Detection System Under Cell 4A Checked.  Wet  Dry

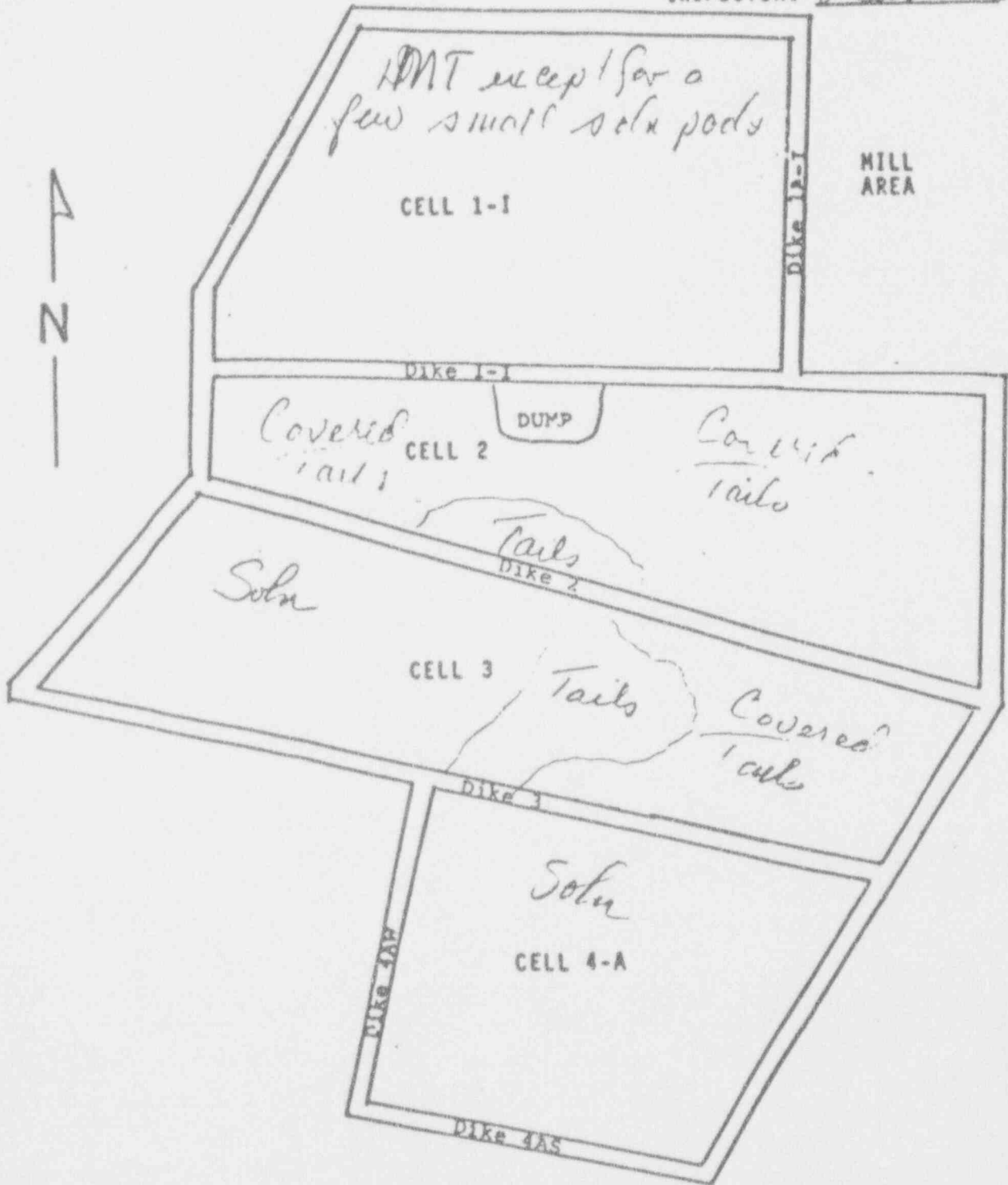
Initial level 119'6"  
Final level N/A  
Gallons pumped - 0 -

VIII. Observations of Potential Concern

Action Required

DAILY ACTION REPORT  
TAILINGS SLURRY DISCHARGE LOCATION

DATE: 30 June 93  
INSPECTOR: J Carroll



Inspector Scott Schermer  
Date 6/29/93

WHITE MESA PROCEDURES MANUAL

Quarterly Inspection Data

1. Embankment Inspection: Bank looks good minimal exposure  
channels. Having some increased problems with periodic  
logs burrowing into ditches on Cell 3 have poached on annual occasion  
seems to be helping. Covered several areas of exposed ditches  
on Cell 3 and Cell 15

2. Operations/Maintenance Review: \_\_\_\_\_

Placed cover on Cell 3 for USMPS and dust minimization  
purposes. Pumped solutions from Cell 15 into Cell 3

3. Post-construction Changes: Fly ash pond closed.

4. Summary: To further minimize dusting of tailings ponds snow  
fencing will be installed on Cell 3.



Monthly Inspection Data

Date: 6/29/93

1. Slurry Pipeline

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

Equipment Used: \_\_\_\_\_  
Equipment Operator: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_  
Location Inspected: \_\_\_\_\_  
General Pipeline Condition: \_\_\_\_\_  
Results (thickness, etc.): \_\_\_\_\_  
Action Required: \_\_\_\_\_

OPERATING

/

NO

/

Monthly Inspection Data

Date: 6/29/93

Inspector: Schirmer

2. Surface Water Control Structures

Diversion Ditch 1: Good Tumble weeds have been cleaned out

Diversion Ditch 2: Good } } }

Diversion Ditch 3: Good }

Diversion Berm 2: Good

Mill and Facilities Area Sedimentation Pond: \_\_\_\_\_

Remarks: Cover advancement looks good has helped with  
minimizing potential for blowing taking ponds

Overspray Minimization Evaluation: No spraying at present time.