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July 13, 1988

A. F. Budge (Mining) Ltd.
7340 East Shoeman Lane
Suite 111-B (E)
Scottsdale, Arizona 85251-3335

SHB Job No. FC88-3796
Report No. 3

Re: Vulture Mine Heap Leach
15 Miles South of Wickenburg, Arizona

Gentlemen,

Transmitted herewith are the observations and results of field density tests performed at the above referenced project over the period of June 6, 1988 through June 30, 1988.

Should any questions arise concerning this report, please do not hesitate to call.

Respectfully submitted,
Sergeant, Hauskins & Beckwith Engineers

By Albert C. Ruckman
Albert C. Ruckman, P. E.

Copies: Addressee (2)

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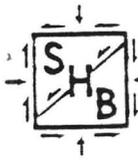
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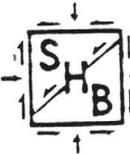
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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 16 Date June 6, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Medium Winds and Warm

Leak testing all field welds with vacuum box. There is no vacuum gauge to go on but Larry assures me that we are getting 10165 or more, specifications call for 8165. Sand and gravel placed over the perforated and wrapped pipe in sump pit in barren pond. Maya is building a pad for a vacuum pump at the south side of the barren pond and the subcontractor has arrived and is preparing for concrete pad. Maya is excavating the top portion of leach pad and wasting the spoils outside of the northeast corner of the leach pad. They are filling in a wash at that location. The pregnant pond has the plating material in place but has not been compacted.

SHB Representative Daniel R. Lewis



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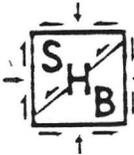
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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 17 Date June 7, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and Warm with Light to Medium Winds

Field Liner Services has started on the 1602 geotextile placement and 40 mil liner. Maya has completed the pregnant pond and it is awaiting the spray before the liner can be placed. Maya continues to haul excess tailings off of leach pad and has started working the 2:1 slope at the upper back side of leach pad. Larry with Field Liner Services informed me that the barren pond will be completed by the end of the day tomorrow.

SHB Representative Daniel R. Lewis



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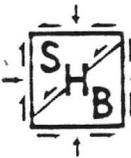
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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 18 Date June 8, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and Warm and Light to Medium Winds

Field Liner Services has completed the 40 mil liner placement except for two seams which will be finished first thing tomorrow morning. The field reams on 40 mil will be vacuum tested tomorrow also. Joe PaPa with Western Visions Landscaping has sprayed the pregnant pond and liner placement is a go. Maya continues to excavate and waste the upper portion of leach pad. Maya has constructed a grizzly from galvanized chainlink gates for the sand and gravel.

SHB Representative Daniel R. Lewis



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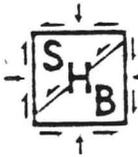
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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 19 Date June 9, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and Warm with Light to Medium Winds

Maya has prepared the subgrade below 2' berm at the upper end of leach pad. Ran sand cone densities on the area with one failure on density which required additional rolling. The retest and one other test was excellent. Field Liner Services finished the welds and patches that were visible and vacuum testing will be Monday, this gives them time to anchor and clean up. 20 mil liner being placed in the pregnant pond. Larry with Field Liner Services is ordering extra liner for pregnant pond in order to complete. Both ponds used quite a bit more liner than figured due to the increased sizes.

SHB Representative Daniel R. Lewis



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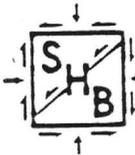
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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 21 Date June 14, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and Warm

Field Liner Services is anchoring liners on barren pond and plan to finish vacuum testing field seams also today, that will complete the barren pond. They continue to weld the 20 mil underliner on pregnant pond, this should be finished today and vacuum test tomorrow. Barren pond has been tested and repairs on leaks will commence tomorrow. One half of the pregnant pond underliner has been tested and will be completed tomorrow. Maya has built the north and east containment berms to the inside of actual line and staked the entire pad in that order, instead of berms straddling line they are off 6' which will be 12' off by the time we build the west berm. I discussed this situation with Nick LaFronz and in order to maintain original widths on cells we will have to move everything on the west side over 12'. The north end we will leave 6' short. Ran sand cone densities on north containment berm and under west interior berm with good results.

SHB Representative Daniel R. Lewis



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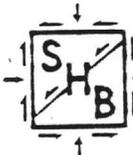
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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 22 Date June 15, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and Hot

Field Liner Services have repaired leaks in barren pond on 40 mil and are just waiting for anchor trench backfill for completion. The 20 mil underliner in barren pond has been vacuum tested and leaks are being repaired. Maya had to add to the 5' containment berm to bring to grade; there was one failing density and I will retest when they finish reprocessing. All other densities on interior berms and subgrade were good. The storm channel between the 2' rock solution berm and 5' containment berm has been started and the leak detection trench on the east berm is being cut now. The east perimeter berm is completed and the first interior berm on the east side of the pad is close, it just needs shaping.

SHB Representative Daniel R. Lewis



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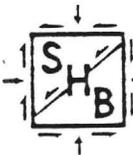
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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 23 Date June 16, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Scattered Clouds and Warm, with Medium to High Winds

Winds are extremely hard to deal with. Field Liner Services has held off on welding and just cutting the 1602 geotextile and laying along the rest of the pond. If wind dies down they can lay the 1602. Maya has cut the storm water channel and shaped the first interior berm on the east side of the pad and nearing completion on the second interior berm from the east side of the pad. We are unable to work too large an area with the winds driving up fill rapidly. The leak detection trench on the east perimeter berm is roughed and just needs smoothing and crumbing. A lot of rocks are showing up on the finished subgrade on leach pad. Larry does not like the grade and Floyd is trying to get a smooth-drum roller which I think is really needed. The rocks are little pockets here and there that are existing and have not been accidentally hauled in. Since we have no geotextile for protecting the 30 mil on pad portion, I feel a smooth-drum roller is a good idea.

SHB Representative Daniel R. Lewis



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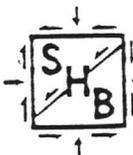
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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 24 Date June 17, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Scattered High Clouds and Warm with Light to Medium Winds

Field Liner Services finishing up the leak repairs on 20 mil
underliner and placing 1602 geotextile. They should get some 40 mil
in place and tacked. Maya concentrating on the west perimeter berm and
the first interior berm west side. Should finish easy by the end of the
day. Floyd has informed me that a smooth-drum roller will be delivered
Monday. This will help alot. Maya should finish the remaining dirt
work on leach pad by end of next week and not sure when Field Liner
Services will be done.

SHB Representative Daniel R. Lewis



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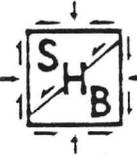
DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 25 Date June 20, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and hot

The ponds were not refilled over the weekend, so water will be very tight. Maya cutting the outlets on the leak detection trenches through the rockfall solution berm. Also finishing the sides and tops of west perimeter berm and first interior berm on west side.

Field Liner Services continue to place and fuse the 40 mil liner on pregnant pond.

SHB Representative Daniel R. Lewis



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PAUL KAPLAN, P.E.

DAILY PROGRESS REPORT

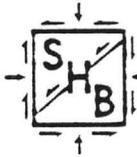
Job No. FC88-3796 Report No. 26 Date June 21, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and hot

Maya continues to work on the leak detection outlets and is preparing subgrade again on the 1st and 2nd cells east side. First cell completed, just awaiting the herbicide.

Field Liner Services continue to fuse 40 mil liner on pregnant pond. The 30 mil liner strip placed in the leak detection trench on the 1st cell east side. Geotextile placed and sand and gravel placement has commenced.

Maya sprayed the ditch Monday. Field Liner Services should be ready for vacuum tests on 40 mil in pregnant pond tomorrow.

SHB Representative Daniel R. Lewis



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DAILY PROGRESS REPORT

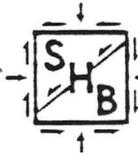
Job No. FC88-3796 Report No. 27 Date June 22, 1988
Project Vulture Mine Heap Leach
Location 15 miles South of Wickenburg, Arizona
Client A. F. Budge (Mining) Ltd.
Contractor Maya
Superintendent Floyd Willett
Weather Sunny and hot

Maya finished subgrade preparation on 1st and 2nd cells, east to west and started rebuilding the 20' service road.

Field Liner Services had accepted the grade on both cells and plans to start placing 30 mil first thing tomorrow.

Joe PaPa has spread the herbicide on cells and they have watered it in.

SHB Representative Daniel R. Lewis



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DAILY PROGRESS REPORT

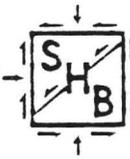
Job No. FC88-3796 Report No. 28 Date June 23, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and hot

Maya finishing up west retainment berm and continuing on 20' service road. The vacuum tester is down; we were unable to finish leak testing on 40 mil in pregnant pond at this time.

Field Services started placing 30 mil on 1st cell east side. Two panels at 23' wide were placed and seamed. The seam fuser machine is having trouble on 30 mil. There will be quite a few repairs to be made behind it. The winds are making it tough for the liner placement and fusing.

Maya spent the last half of the day preparing haul road from gravel pit to stockpile. Two 10-wheelers are supposed to be in Saturday to haul sand and gravel. The blade and water truck will work Sunday preparing subgrade in the last two cells for Monday's start.

SHB Representative Daniel R. Lewis



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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 29 Date June 24, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and hot

Maya is down today. Field Liner Services continue to place 30 mil in 1st cell east side. Vacuum tests on the remaining field welds in pregnant pond have been completed and repairs are being made. The fusion seamer is being used on flat work only and the extruder gun is making the welds on the slopes and repairs as it is more maneuverable on irregular grades.

SHB Representative Daniel R. Lewis

PHOENIX
(602) 272-6848

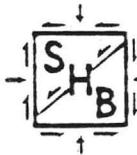
TUCSON
(602) 792-2779

ALBUQUERQUE
(505) 864-0950

SANTA FE
(505) 471-7836

SALT LAKE CITY
(801) 266-0720

EL PASO
(915) 776-3369



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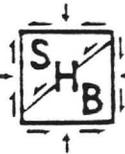
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DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 30 Date June 27, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and hot

Maya is finishing off the final two cells on west side. Excellent moisture and compactive effort was made with excellent test results. Field Liner Services should be finished with the first two cells on east side by end of day Tuesday. Maya has finished last two cells and started on the diversion channel completion.

SHB Representative Daniel R. Lewis



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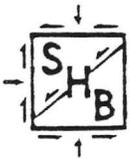
DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 31 Date June 28, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Cloudy with light showers

Maya has jumped from diversion channel to the perimeter fence. Field Liner Services is at a hold on welding but placed the 30 mil strip in the last leak detection trench. They have used up all the 16 oz. and are using two layers of 7 oz. for the last trench. Sand and gravel is being placed.

Joe PaPA has sprayed the last two cells. Weatherman calling for showers off and on all day. Larry will do all he can until drier weather.

SHB Representative Daniel R. Lewis



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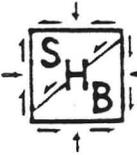
DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 32 Date June 29, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and warm

Maya has returned to diversion channel, adding fill to the northwest end of north berm. Placement is going according to plans.

Field Liner Services continues liner placement. Completed placement and fusing the 3rd cell from east side. No testing on field seams at this time. Larry wants to get all the liner placed and welded, then drop back and vacuum test and repair all the way through.

SHB Representative Daniel R. Lewis



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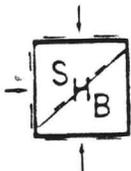
DAILY PROGRESS REPORT

Job No. FC88-3796 Report No. 33 Date June 30, 1988
 Project Vulture Mine Heap Leach
 Location 15 miles South of Wickenburg, Arizona
 Client A. F. Budge (Mining) Ltd.
 Contractor Maya
 Superintendent Floyd Willett
 Weather Sunny and warm

Maya has completed the diversion channel except for riprap placement. As soon as Field Liner Services finishes using the loader, Maya will place riprap. Maya started on the spillway channel and should finish it up next Tuesday.

Field Liner Services working on the 4th and final cell. They should be completed with liner placement and leach pad by end of the day, except the vacuum testing and repairs. Larry will start on the 80 mil splash pad and channel next week.

SHB Representative Daniel R. Lewis



FIELD DENSITY TEST DATA

DATE _____

PROJECT Vulture Mine Heap Leach JOB NO. FC88-3796

LOCATION 15 mi. South of Wickenburg, Arizona

CLIENT A. F. Budge (Mining) Ltd. ADDRESS 7340 East Shoeman Lane
Scottsdale, AZ 85251-3335

ARCHITECT/ENGINEER _____ CONTRACTOR _____

REQUESTED BY _____ PERFORMED BY SHB/DRL

MATERIAL _____

Specified Percent Max. Dry Density: 95

DATE OF TEST	TEST NO.	DEPTH OF TEST	LOCATION	MOISTURE CONTENT % DRY WT.	DRY DENSITY LBS./CU.FT.	% MAX DRY DENSITY	CURVE NO.
6-09-88	29	2-2.5'	Leach Pad 30' N at 8' W of NE Corner	11.0	113.0	94.0	B
6-09-88	29A	2-2.5'	Leach Pad 30' N at 8' W of NE Corner	14.0	121.7	100+	B
6-09-88	30	2-2.5'	Leach Pad 110' S & 4' W of NW Corner	12.0	120.5	100+	B
6-09-88	31	2-2.5'	Leach Pad 210' S & 12' S of NW Corner	11.0	124.0	100+	B
6-13-88	32	0-6"	Leach Pad 100' & E 10' N of NW Corner	13.0	119.3	99.1	B
6-13-88	33	0-6"	Leach Pad 250' W & 5' N of NW Corner	11.0	119.2	99.1	B
6-14-88	34	0-6"	Leach Pad 350' S & 4' W of 1st Interior Berm E of E Perimeter Berm	13.6	118.1	98.1	B
6-14-88	35	0-6"	Leach Pad 150' S & 2' W of NE Corner of 1st Interior Berm E of E Side	15.6	117.0	97.3	B
6-14-88	36	0-6"	Leach Pad N Perimeter Berm 60' E & ϕ of NW Corner	9.0	115.9	96.4	B
6-15-88	37	1-1.5'	1st Interior Berm E Side 200' S & ϕ of Berm	9.0	117.8	97.9	B
6-15-88	38	4-4.5'	5' Containment Berm ϕ SE Corner	9.5	113.5	94.4	B
6-15-88	39	4-4.5'	5' Containment Berm 154' W & 2' S ϕ of SE Corner	8.5	118.6	98.6	B
6-15-88	40	1.5-2'	E 2' Containment Berm 150' S & 3' W ϕ	10.0	118.0	98.1	B

