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Division of Solid & Hazardous Waste
Utah Department of Environmental Quality

SF PHOSPHATES LIMITED COMPANY

**APPLICATION FOR A PERMIT TO
OPERATE A CLASS IIIb LANDFILL**

January 14, 2000

Prepared by and for:

SF Phosphates Limited Company
9401 North Highway 191
Vernal, Utah 84078

Submitted to:

Dennis R. Downs
Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
PO Box 144880
Salt Lake City, Utah 84114-4880

**SF PHOSPHATES LIMITED COMPANY
APPLICATION FOR A PERMIT TO OPERATE
A CLASS IIIb LANDFILL**

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Appendix A Maps and Drawings

 Site Map

 Current Dump Location and Contours Map

 Dump Closure Map

 Dump Cross-section A-A'

 Dump Cross-section B-B'

Appendix B Quit Claim Deed

Appendix C Forms

 Waste Volume Record Form

 Quarterly Landfill Inspection Form

UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF SOLID AND HAZARDOUS WASTE

APPLICATION FOR A PERMIT TO OPERATE A CLASS IIIb LANDFILL

Submitted To:

Dennis R. Downs, Director
Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
PO Box 144880
Salt Lake City, Utah 94114-4880

PART I – GENERAL INFORMATION

General Information

1. Name of Facility: SF Phosphates Limited Company
2. Site Location: 9401 North Highway 191 Vernal, Utah
3. Facility Owner: SF Phosphates Limited Company
4. Facility Operator: SF Phosphates Limited Company
5. Contact Person: Ron Ryan

Address: 9401 North Highway 191
Vernal, Utah 84078
Telephone: 435-781-3348

6. Type of Application:

Class IIIb Landfill

7. Property Ownership:

The property is presently owned by applicant.

8. Certification of submitted information

Ma Weaver _____, MINE MANAGER
(Name of Official) (Title)

I certify under the penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

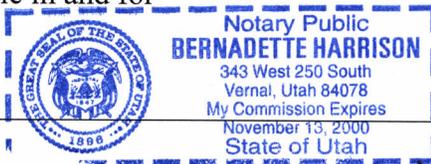
Signature: Ma Weaver _____ Date: Jan 18, 2000

SUBSCRIBED AND SWORN to before This 18 day of January,
2000.

My commission expires on the 13th day of November, 2000.

Notary Public in and for

(SEAL)



_____ County, Utah.

Bernadette Harrison

PART II – GENERAL REPORT

General Facility Description

SF Phosphates Limited Company (SF) owns and operates a surface phosphate mine and beneficiation facility located 10 miles north of Vernal in Uintah County Utah. As part of this industrial operation, SF has an on-site landfill facility that receives only non-hazardous solid wastes that are generated on-site. The landfill is constructed next to a highwall created from prior mining activities in the area. Fill material from an adjacent borrow area is used to cover the wastes deposited beside this highwall area (see Site Map and Current Dump Location and Contours Map in Appendix A).

Legal Description and Proof of Ownership

The landfill facility is located on SF property. A copy of the mine property deed is shown in Appendix A as proof of ownership. The specific location of the landfill is the Specimen mine claim, which would otherwise be in the northwest corner of Section 31, Township 2 South, Range 22 East.

Types of waste and area served by the facility

The landfill operated by SF Phosphates receives only non-hazardous, solid, industrial wastes generated on site. This waste is generated primarily in mine and mill maintenance shops and in a product concentration plant. Office wastes and shipping material are other typical wastes. No cafeteria or other meal supply facility exists on site so food wastes are negligible. The landfill serves the mill and mine areas of the SF Phosphates facility.

Non-commercial Landfill Demonstration

The SF landfill is located well within SF property. The property is fenced and the only access is through a manned security gate. The landfill is accessible only to and used by SF employees for disposal of wastes generated on site.

Plan of Operations

Intended Schedule of Construction

Because the SF landfill is located in a void next to an existing highwall, no excavation for landfill construction is required. Monthly covering of the landfill will be the only construction activity in the landfill area.

Waste Handling Procedures

Wastes are primarily generated in various shops, warehouse, offices and plant buildings around the site. Dumpsters are distributed around the beneficiation plant for intermediate collection. A single, truck mounted dumpster is used for intermediate collection at the mine shop. Dumpsters are then individually hauled to the landfill for waste disposal.

Beneficiation plant dumpsters are hauled via forklift. All dumpsters are equipped with screened lids for containment during collection and transport. Wastes that are placed into the landfill are introduced there by 1) dumping over a protective berm at the top of the fill onto the slope face, 2) dumping onto the top of the landfill next to the berm where it can be pushed onto the slope face, or 3) dumping onto the base of the slope from the bottom of the landfill. Empty drums are placed at the base of the landfill so they can be crushed prior to coverage. The volumes of all waste storage/transport containers emptied into the landfill have been measured and are used to calculate volumes deposited. These volumes will be recorded in a logbook located in a protective box at the landfill entrance. An example of a logbook form is shown in Appendix C.

When coverage takes place, fill from a borrow area adjacent to the landfill is hauled to the top of the landfill. This fill is pushed over the landfill edge to cover the landfill slope and accumulated wastes. The newly placed fill material is then compacted from the top for stabilization. Coverage of accumulated wastes is performed on a monthly basis.

Inspection and Monitoring Schedules

A detailed inspection of the landfill will be conducted each calendar quarter by environmental personnel. The forms used to record the results of these inspections are shown in Appendix C. Other mine personnel inspect the landfill routinely as part of typical plant maintenance and operations.

Contingency Plans in the Event of Fire or Explosion

In the event of a fire or explosion, a company owned, 8,000-gallon water truck would be dispatched to the landfill. A spooled hose and fire nozzle is attached to the truck. The pumping capacity of this truck is sufficient to deliver a large quantity of water to any area of the landfill from a safe distance.

Corrective Action Plan if Groundwater is Contaminated

Groundwater monitoring is not required for Class IIIb landfills (R315-304-5 (4) (c)).

In the event ground water contamination is suspected, a hydrogeologic investigation including monitor well installation and monitoring will be performed to determine the nature and extent of the contamination as well as a remedy. The Division of Solid and Hazardous Wastes will be informed and involved in this evaluation.

Contingency Plan for Failure of Run-off Collection System

In the event of failure of the run-off collection system devised for the landfill, mine equipment will be used to reconstruct and/or repair the detention pond and berm (dike) as well as any diversion structures necessary. Low permeability material and/or liners can be used if necessary.

Contingency Plan for Other Releases

The site and usage characteristics of this landfill preclude releases of explosive gases and other components. Very little organic material is placed in the landfill and hazardous components of any sort are not permitted such that the potential to generate gases is negligible.

Fugitive Dust Control Plan

Fugitive dust is controlled through water application to the landfill area and associated areas as needed during normal operations, while covering the waste, and any other maintenance operation activities. A speed limit restriction of 35 mph is also imposed for vehicles using the road leading to and through the landfill area. Fugitive dust is regulated for the entire mine site through the Utah Division of Air Quality Title V Operating Permit.

Maintenance of Installed Equipment

The SF landfill site contains no installed equipment. Equipment used in the operation or maintenance of the landfill is that used in mining operations. This equipment is maintained as a part of normal operations of the mine facility.

Procedures for Excluding Receipt of Hazardous or PCB Waste

The landfill operated by SF Phosphates is only used by SF Phosphates employees. SF employees receive training in the types of wastes permitted in the landfill. This training stresses the importance of excluding hazardous and PCB wastes from the landfill facility. Waste disposal procedures have been established that prevent these types of wastes from entering the landfill and include:

- No free liquids of any sort are permitted for disposal in the landfill
- Oil filters must be gravity hot drained, punctured, and drained at least 12 hours at room temperature before disposal in the landfill
- Oil or grease soaked rags are not permitted for disposal in the landfill and have separate collection receptacles. These are disposed in a permitted incinerator.
- No unpunctured aerosol cans are permitted in the landfill
- No hazardous wastes of any type are permitted in the landfill
- A program is in place to assure proper disposal of PCB waste. All transformers have been tested for PCB content and those with PCB content greater than 25 ppm have been removed to an off-site, licensed PCB recycling facility. All transformers, ballasts, or capacitors that may contain PCBs are collected for similar off-site disposal.

Quarterly landfill inspections also confirm that no hazardous waste are placed in the landfill and that the above procedures are being practiced.

Procedures for Controlling Disease Vectors

The main disease vector potential at the SF facility is from small rodents. Three procedures may be used to control this vector potential: 1) elimination of rodents through the use of a small caliber firearm, 2) removal of rodents through the use of live traps, and 3) use of gas canister pesticides. The risks posed by disease vectors are low due to the remote location of the landfill facility and the non-organic nature of wastes.

Alternative Waste Handling Plan

In the event that a period occurs in which the landfill facility is not able to dispose of solid waste, solid waste removal and disposal will be contracted to an outside firm. The contracted firm selected will be licensed to perform such work and documentation will be obtained verifying the placement of the waste in a facility permitted for the waste type.

Training and Safety Plan

Operators of equipment used in the operation of the landfill facility are trained specifically in each piece of equipment as required by Mine Safety and Health Administration regulations. All SF employees receive safety training as part of annual training required by MSHA including aspects pertaining to landfill operation.

PART III – TECHNICAL REPORT

Maps

The following maps and drawings are found in Appendix A:

- Site Map
- Current Dump Location and Contours Map
- Dump Closure Map
- Dump Cross-section A-A'
- Dump Cross-section B-B'

Engineering Report – Plans Specifications, and Calculations

The landfill layout is depicted in the Dump Location and Contours Map (Appendix A). The cross-sections shown in Appendix A show the filled configurations.

The landfill is situated against an east-west trending highwall remaining from previous mining operations. The near vertical highwall results in a vacancy approximately 30ft high and open on the east and north sides. Waste material is dumped over the berm on the top and east edge of previous fill. Monthly coverage fill is also placed over this edge and to the north such that the landfill migrates eastward as alternate layers of waste and imported fill. When coverage takes place, fill from a borrow area adjacent to the landfill is hauled to the top of the landfill. This fill is pushed over the landfill edge to cover the landfill slope and accumulated wastes. The newly placed fill material is then compacted from the top for stabilization. Coverage of accumulated wastes is performed on a monthly basis. Fill material is moved from adjacent overburden dumps and placed typically using a 13 cubic yard mine loader. Waste material may also be placed immediately to the east of the active landfill at the toe of the dump. Empty barrels may also be inverted and placed in this area. Prior to monthly coverage the loader is used to crush barrels and push all this waste into the dump slope allowing complete waste coverage. Fill distribution on and over the top of the landfill dump results in a four to five foot layer of soil on the top. This surface will be ripped, graded and reclaimed to form the final cover. See Dump Cross-section B-B' (Appendix A). The final cover elevation is estimated at approximately 6175ft.

A combination of natural watershed divides and diversion structures limit precipitation run-on. Run-on is diverted from the north and northwest to bypass the landfill and flow to the east. A natural topographic break exists on the west side of the pond which limits run-on from this direction. The southern edge of the landfill exists as a naturally vegetated slope along the ridge, which occupies little surface area to accumulate precipitation. The entire surface area contributing run-on to the landfill is approximately 21,183 square yards (see Dump Closure Map in Appendix A).

CLOSURE PLAN

Closure Schedule

Closure of the SF Phosphates landfill facility will commence after the landfill area is full. The estimated time to closure is approximately 20 years. Closure procedures will begin within 30 days after covering the final volume of waste.

Design of Final Cover

When the operational life of the landfill facility has ended, final cover will be accomplished using fill from the adjacent borrow area. This final cover will be at least two feet deep and will be graded to match the surrounding topography (see Cross-sections A-A' and B-B' in Appendix A). Seeding with species adapted to the environmental conditions will then be used to revegetate the area.

Capacity of Site

The volume of the SF landfill site is approximately 129,782 yd³. It is estimated that 20 percent of this volume (25,956 yd³) will be comprised of waste with the remaining 80 percent as fill material (103,826 yd³). The current fill strip is being filled at a rate of 175 yd³ per month and has 9,333 yd³ remaining space. At the current rate of fill, the fill strip has a remaining life of approximately 7.8 years.

Final Inspection by Regulatory Agencies

Upon closure of the SF landfill, a final inspection by the Division of Solid and Hazardous Waste will take place to approve the final cover and release the site for closure. The Division of Oil, Gas, and Mining (DOGGM) will also perform a subsequent inspection in order to release the landfill facility from the reclamation bond, which covers all disturbed land on the mine site. This inspection will examine soil and slope stability, drainage, and vegetation success.

POST-CLOSURE PLAN

Site Monitoring

Post-closure monitoring of the landfill site will be conducted periodically for several years following closure. The site will be monitored to insure slope and erosional stability. Run-on/run-off structures will also be inspected to insure proper functioning and stability. As required by DOGM regulations regarding reclamation, inspection of vegetative success will be performed for at least 3 years following reclamation. After the third year, success of revegetation will be determined.

Changes to Record of Title, Land Use, and Zoning Restrictions

The title to the property on which the SF landfill sits is held by SF Phosphates. It is estimated that SF property contains 100 years of minable reserves. Therefore, operations at the SF mining facility are projected well into the future and no near changes to title, land use, or zoning is expected.

Maintenance to Maintain Cover and Run-on/Run-off Control Systems

Periodic inspections of the landfill site will be made to monitor site stability and revegetation progress. If upon inspection, any of the water bars or retention pools show signs of damage or failure, equipment will immediately be brought in to repair or rebuild the structures as needed. In addition, if inspection reveals areas where vegetation has not established, these areas will be reseeded and/or mulched to assure plant growth.

Post-Closure Contact Information

The following individual should be contacted about the landfill facility during the post-closure care period:

Ron Ryan
9401 North Highway 191
Vernal, Utah 84078
Tel. 435-781-3348

FINANCIAL ASSURANCE

Closure Costs and Calculations

Closure cost for the SF landfill would include construction of run-on/run-off structures, final grading, ripping of cover surface for seeding, and seeding. Landfill closure costs are very similar to the costs incurred in many other reclamation efforts on the mine facility. Based on costs from previous reclamation efforts, landfill closure costs are estimated as follows:

$$7.5 \text{ total final cover acres} \times \$3,000 \text{ per acre} = \$22,500 \text{ total closure cost}$$

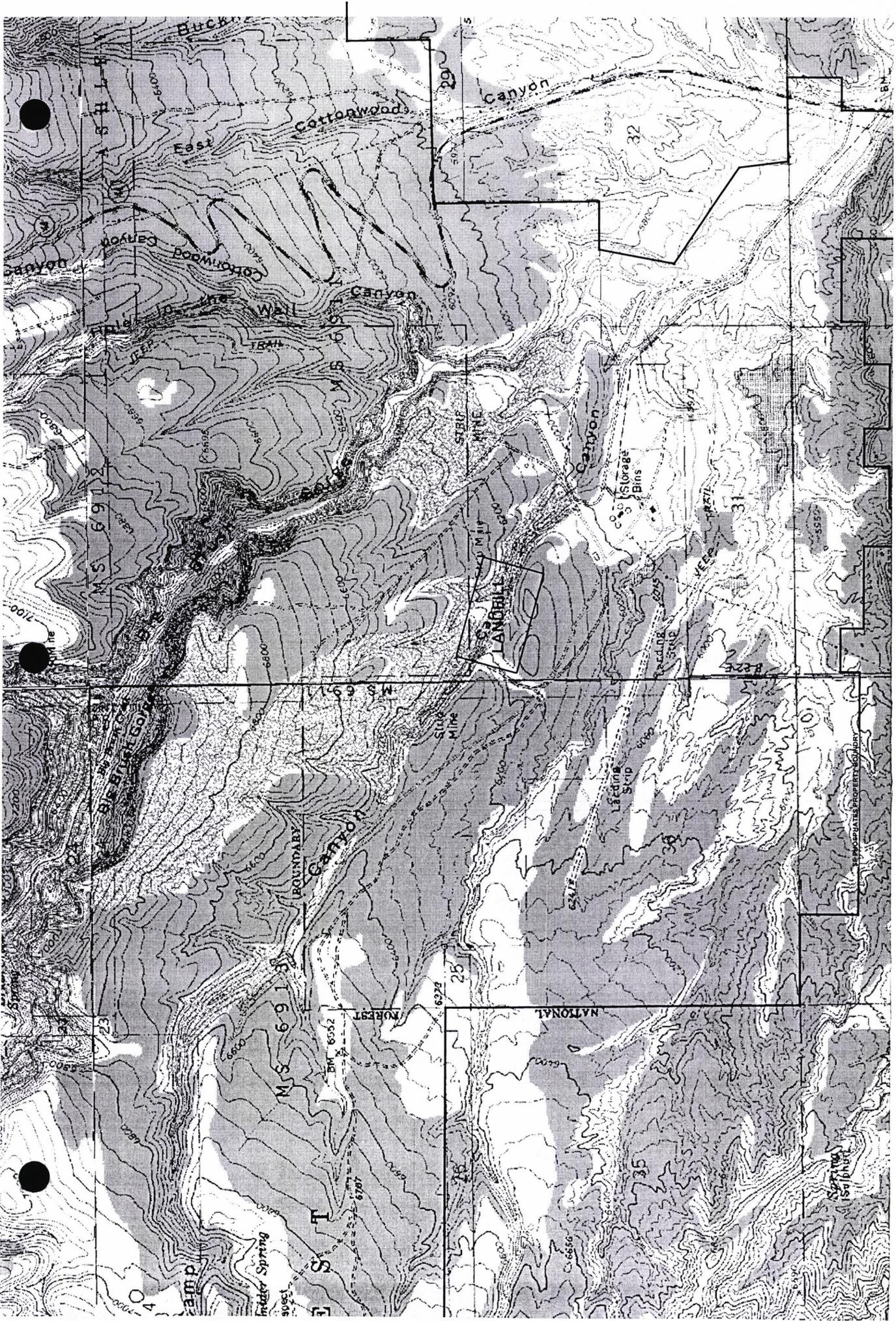
Post-Closure Costs and Calculations

Inspection costs are the only expected post-closure cost. Other post closure cost may include possible minor repair of run-on/run-off structures and reseeded of any areas where initial seeding resulted in poor revegetative success. Cost of these types of repair activities would be extremely low.

Financial Assurance Mechanism and Effective Date

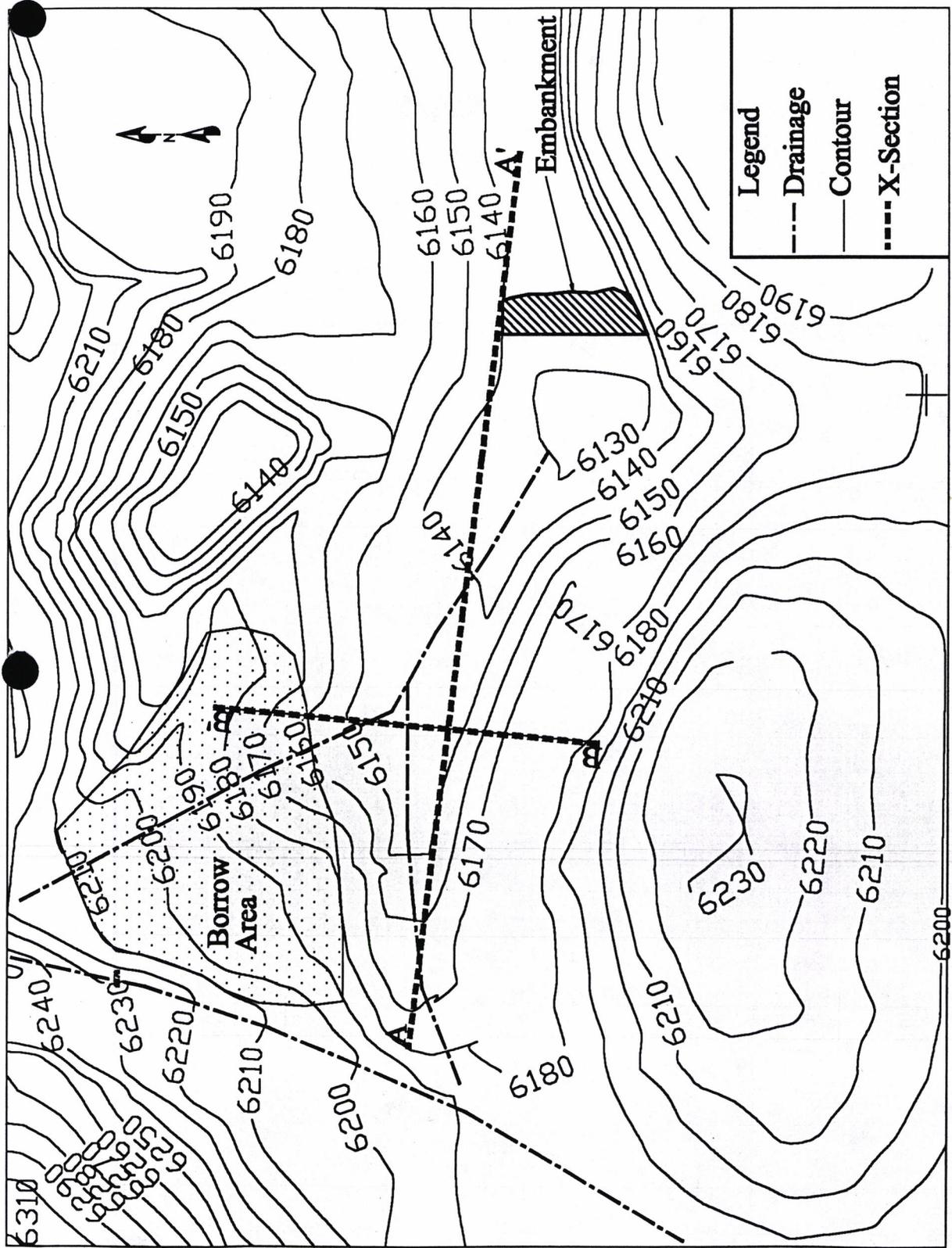
A mining reclamation bond of \$2.2 million held by DOGM currently exists for the SF mine site, including the landfill facility. SF proposes that this bond cover the financial assurance mechanism required under R315-309. This bond amount more than exceeds any closure or post-closure cost for the landfill facility. This bond will be revised in the year 2000.

APPENDIX A

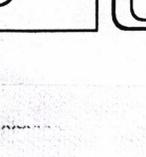


Scale 1:2000

MAP A SITE MAP
SF PHOSPHATES LIMITED COMPANY

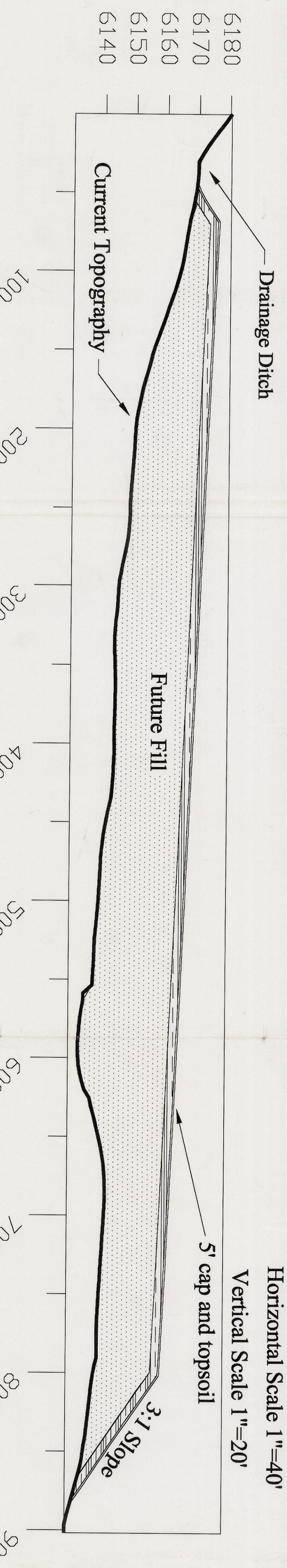


Dump Location
with current contours
1"=150'



SF Phosphates L.C.
A Utah Limited Liability Company
VERNAL, UT

Dump X-Section Section A-A'

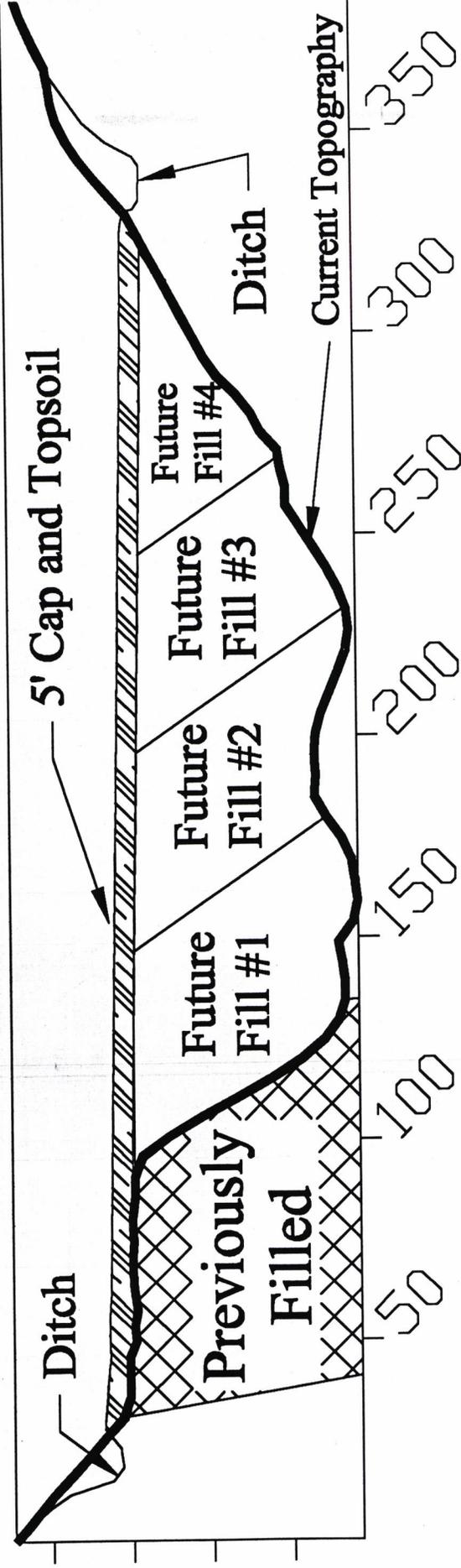


Dump X-Section

Section B-B'

Horizontal Scale 1"=40'

Vertical Scale 1"=20'



APPENDIX B

SENT BY:

9-13-94 10:44AM ; FABIAN & CLENDENIN-

SF PHOSPHATES:# 2/25

WHEN RECORDED, RETURN TO:

Wayne B. Slaughter, Esq.
J.R. Simplot Company
4122 Yellowstone
P.O. Box 912
Pocatello, Idaho 83204

MAIL TAX NOTICES TO:

SF Phosphates Limited Company
515 Highway 430
P.O. Box 1789
Rock Springs, Wyoming 82902

ENTRY 94000998
BOOK 567 PAGE 441
BOOK 751 PAGE 824-847

ENTRY 94000998
BOOK 567 PAGE 441-444 \$609.00
09-FEB-94 12:26
RANDY SIMMONS
RECORDER, UINTAH COUNTY, UTAH
FABIAN AND CLENDENIN
215 S STATE ST 12 FLR SLC UT 84111
REC BY: SYLENE ACCUTTOROOP, DEPUTY

QUIT CLAIM DEED
(Vernal Property)

FS INDUSTRIES LIMITED, A LIMITED LIABILITY COMPANY, a Wyoming limited liability company, having its principal office at 515 Highway 430, P.O. Box 1789, Rock Springs, Wyoming 82902 ("Grantor"), for \$10.00 (TEN DOLLARS) and other good and valuable consideration, hereby quit claims, conveys and assigns to SF PHOSPHATES LIMITED COMPANY, a Utah limited liability company, 515 Highway 430, P.O. Box 1789, Rock Springs, Wyoming 82902 ("Grantee"), all its right, title and interest in the tracts of land and real property including all nonextracted minerals located in, on, or under the land, all buildings, fixtures and improvements on the land, and all water rights, rights-of-way, easements, rents, issues, profits, income, tenements, hereditaments, possessory rights, claims, including patented mining claims, patented millsite claims, unpatented millsite claims, privileges, and appurtenances belonging to, used or enjoyed with the land in Uintah County, Utah, described in Schedules A through E attached hereto, together with all rights of Grantor under all warranties and representations previously made by others in and to the above-described properties.

This conveyance is subject to the following exceptions, reservations, and conditions:

1. Rights-of-way for the phosphate slurry pipeline held by FS Industries Limited, a Limited Liability Company, together with the associated fixtures and improvements and rights of ingress and egress necessary to operate and maintain the same, which are being separately assigned to Grantee.

2. Said property is included within the boundaries of The Uintah Water Conservancy District, The Central Utah Water Conservancy District, and The Uintah County Mosquito Abatement District, assessments for which are collected with the general taxes.

3. Right-of-ways and easements for roads, ditches, transmission and utility lines, etc., now existing on, over, under or across said premises.

ENTRY 94000998
BOOK 567 PAGE 442

4. Excepting any portion thereof lying within the boundaries of State Highway 44. **BOOK 751 PAGE 825**

5. Right-of-Way Deed, an easement and right-of-way in gross crossing the following named claims: Twin Sister, Campion, Columbine, Cresson, in approximately Section 29, and Franklin in approximately Section 32, Township 2 South, Range 22 East, Salt Lake Meridian; for a public highway of a certain road or way, as created in favor of THE UNITED STATES OF AMERICA, by instrument recorded March 29, 1927 as Entry No. 414 in Book 27 at Page 147 of the official records of Uintah County, Utah.

6. A right-of-way for an electric transmission line or lines over and across the following:

The West half of the Northeast quarter of Section 5, Township 3 South, Range 22 East, Salt Lake Meridian, and across the Southwest quarter of the Southeast quarter of Section 32, Township 2 South, Range 22 East, Salt Lake Meridian; as granted to the MOON LAKE ELECTRIC ASSOCIATION, INC., by Right-of-Way dated August 26, 1958 and recorded March 2, 1966, as Entry No. 109385 in Book 130 at Page 129 of official records of Uintah County, Utah.

7. A Warranty Deed of Easement over Section 5, Township 3 South, Range 22 East; Sections 29 and 32 and mining claims on unplatted Sections, Township 2 South, Range 22 East, Salt Lake Meridian; a perpetual easement to construct, operate, and maintain a 138-kv electric transmission line, as created in favor of UNITED STATES OF AMERICA, by instrument recorded April 5, 1973 as Entry No. 132983 in Book 183 at Page 709 of official records of Uintah County, Utah.

8. The right to construct, operate and maintain and remove communication and other facilities over, under, and across the following:

Lots 1, 2, 3, 4, 5, 6, 7, 8, and 9 located in Section 31, Township 2 South, Range 22 East, Salt Lake Base and Meridian, also the following patented Placer Mining Claims located in Township 2 South, Range 22 East, Salt Lake Base and Meridian; Maryann, Silver State, Specimen, Garfield, The Madison, Little May, Little Nell, The Twin Sisters, The Compean, Columbine, Cresson, and Franklin, as granted to the MOUNTAIN STATES TELEPHONE AND TELEGRAPH COMPANY by Right-of-Way Easement dated November 24, 1982 and recorded January 12, 1983 as Entry No. 198423 in Book 323 at Page 338 of official records of Uintah County, Utah.

9. Flaming Gorge - Vernal No. 3 Transmission Line Relocation Contract and Grant of Easement, as granted to the UNITED

ENTRY 94000998
 BOOK 567 PAGE 443
 BOOK 751 PAGE 826

STATES OF AMERICA, Department of Energy, Western Area Power Administration, dated July 20, 1989 and recorded September 5, 1989 as Entry No. 4177-89 in Book 472 at Page 512-519 of official records of Uintah County, Utah.

10. Subject to Protective Area Easement recorded December 3, 1982, as Entry No. 197449 in Book 319 at Page 325 of official records, Uintah County, Utah, restrict the use of the area in order to protect the culinary water sources for the immediate area as suggested by the rules and regulations of the Utah Department of Health.

11. Subject to any vested and accrued water rights for mining, agricultural, manufacturing or other purposes, and rights to ditches and reservoirs used in connection with such water rights, as may be recognized and acknowledged by the local customs, laws, and decision of courts; and there is reserved from the lands hereby granted, a right-of-way thereon for ditches or canals constructed by the authority of the United States, as reserved in United States Patents as follows:

<u>DATED</u>	<u>RECORDED</u>	<u>BOOK-PAGE</u>	<u>AFFECTS SECTIONS or SURVEY NO.</u>
4-20-18	10-2-18	21-264	T. 3 S. R. 22 E., Sec. 5
1-8-15	10-2-18	21-265	T. 3 S. R. 22 E., Sec. 5
2-16-20	2-27-20	22-223	T. 3 S. R. 22 E., Sec. 5
3-1-51	1-24-52	A16-505	T. 2 S. R. 22 E., Sec. 31 and 32
1-31-61	3-15-61	A79-23	T. 2 S. R. 22 E., Sec. 31 and 32
			T. 3 S. R. 22 E., Sec. 5 and 6
10-7-30	10-20-30	Z9-25	T. 2 S. R. 21 E., Sur. No. 6914
10-7-30	10-20-30	Z9-28	T. 2 S. R. 21 E., Sur. No. 6913
10-7-30	10-20-30	Z9-30	T. 2 S. R. 21 E. and
			T. 2 S. R. 22 E., Sur. No. 6811
10-7-30	10-20-30	Z9-31	T. 2 S. R. 22 E., Sur. No. 6908
5-15-30	6-5-30	Z8-554	T. 2 S. R. 21 E. and
			T. 2 S. R. 22 E., Sur. No. 6911
5-15-30	6-5-30	Z8-558	T. 2 S. R. 22 E., Sur. No. 6908
5-15-30	6-5-30	Z8-561	T. 2 S. R. 22 E., Sur. No. 6909
5-15-30	6-5-30	Z8-564	T. 2 S. R. 21 E., Sur. No. 6913
5-15-30	6-5-30	Z8-566	T. 2 S. R. 21 E., Sur. No. 6914
3-28-27	4-4-27	Z8-143	T. 2 S. R. 22 E., Sur. No. 6778
5-15-30	6-5-30	Z8-544	T. 2 S. R. 21 E. and
			T. 2 S. R. 22 E., Sur. No. 6912
5-15-30	6-5-30	Z8-548	T. 2 S. R. 22 E., Sur. No. 6910
4-19-30	5-10-30	Z8-540	T. 2 S. R. 22 E., Sur. No. 6907
10-7-30	10-20-30	Z9-23	T. 2 S. R. 22 E., Sur. No. 6909
4-11-84	4-16-84	355-278	T. 2 S. R. 21 E., Sec. 25, 36, and
			T. 3 S. R. 22 E., Sec. 1

12. "Excepting and reserving, however, to the United States all the oil and gas in the lands so entered and patented, together with the right to prospect for, mine, and remove such deposits from the same upon compliance with the conditions and subject to the provisions and limitations of the Act of July 17, 1914 (38 Stat. 509) ":

ENTRY 94000998
BOOK 567 PAGE 444

BOOK 751 PAGE 827

<u>DATED</u>	<u>RECORDED</u>	<u>BOOK-PAGE</u>	<u>AFFECTS SECTIONS</u>
2-16-20	3-12-20	22-223	T. 3 S. R. 22 E., Sec. 5 (SE\SW\, SW\NEX)
1-13-61	3-15-61	A79-23	T. 2 S. R. 22 E., Sec. 31 and 32, and T. 3 S. R. 22 E., Sec. 5 and 6

13. "Excepting and reserving, also to the United States all phosphate in the lands so patented, and to it, or persons authorized by it, the right to prospect for, mine and remove such deposits from the same upon compliance with the conditions and subject to the provisions and limitations of the Act of July 17, 1914. (38 Stat. 509)":

<u>DATED</u>	<u>RECORDED</u>	<u>BOOK-PAGE</u>	<u>AFFECTS SECTIONS</u>
4-12-18	10-2-18	21-264	T. 3 S. R. 22 E., Sec. 5

14. "Excepting and reserving, also, to the United States, pursuant to the provisions of the Act of August 1, 1946 (60 Stat. 755), all uranium, thorium or any other material which is or may be determined to be peculiarly essential to the production of fissionable materials":

<u>DATED</u>	<u>RECORDED</u>	<u>BOOK-PAGE</u>	<u>AFFECTS SECTIONS</u>
3-1-51	1-24-52	A16-505	T. 2 S. R. 22 E., Sec. 31 and 32

15. "That should any vein or lode or quartz or other rock in place bearing gold, silver, cinnabar, lead, tin, copper, or other valuable deposits, be claimed or known to exist within the above described premises at said last-named dated, the same is expressly excepted and excluded from these presents":

<u>DATED</u>	<u>RECORDED</u>	<u>BOOK-PAGE</u>	<u>AFFECTS SECTIONS or SURVEY</u>
10-7-30	10-20-30	Z9-25	T. 2 S. R. 21 E., Sur. No. 6914
10-7-30	10-20-30	Z9-28	T. 2 S. R. 21 E., Sur. No. 6913
10-7-30	10-20-30	Z9-30	T. 2 S. R. 21 E. and T. 2 S. R. 22 E., Sur. No. 6908
10-7-30	10-20-30	Z9-31	T. 2 S. R. 22 E., Sur. No. 6908
5-15-30	6-5-30	Z8-558	T. 2 S. R. 22 E., Sur. No. 6908
5-15-30	6-5-30	Z8-561	T. 2 S. R. 22 E., Sur. No. 6909
5-15-30	6-5-30	Z8-564	T. 2 S. R. 21 E., Sur. No. 6913
5-15-30	6-5-30	Z8-566	T. 2 S. R. 21 E., Sur. No. 6914
3-28-27	4-4-27	Z8-143	T. 2 S. R. 22 E., Sur. No. 6778
5-15-30	6-5-30	Z8-544	T. 2 S. R. 21 E. and T. 2 S. R. 22 E., Sur. No. 6912
5-15-30	6-5-30	Z8-548	T. 2 S. R. 22 E., Sur. No. 6910
4-19-30	5-10-30	Z8-540	T. 2 S. R. 22 E., Sur. No. 6907
10-7-30	10-20-30	Z9-23	T. 2 S. R. 22 E., Sur. No. 6909

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16. Excepting and reserving to the United States all minerals in the lands, with the right to prospect for, mine and remove the same under applicable law and such regulations as the Secretary may prescribe:

<u>DATED</u>	<u>RECORDED</u>	<u>BOOK-PAGE</u>	<u>AFFECTS SECTIONS</u>
4-11-84	4-16-84	355-278	T. 2 S. R. 21 E., Sec. 25 and 36, and T. 3 S. R. 21 E., Sec. 1

This Quit Claim Deed does not supersede or waive any contractual remedies between Grantor and Grantee. Such remedies are in addition to and are not merged into this instrument.

The undersigned Grantor hereby acknowledges and affirms to the below named notary public that (1) [s]he appeared before such notary public, holds the position or title set forth below, and, on behalf of Grantor by proper authority, either executed the foregoing document before such notary public or acknowledged to such notary public that the undersigned Grantor executed the foregoing document, and that (2) the foregoing document was the act of such limited liability company for the purpose stated in it.

DATED this 2 day of December 1993.

FS INDUSTRIES LIMITED, A LIMITED LIABILITY COMPANY

By Don Pottinger
Don Pottinger, Chairman

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ACKNOWLEDGMENT

STATE OF Idaho)
COUNTY OF Bonneville) ; ss.

On this 2 day of December, 1993, personally appeared before me Don Pottinger, whose identity is personally known to or proved to me on the basis of satisfactory evidence, and who, being by me duly sworn, did say that he is the Chairman of FS Industries Limited, a Limited Liability Company, and that said document was signed by him on behalf of said limited liability company, and said Don Pottinger acknowledged to me that said limited liability company executed the same.

Don McFadden
Notary Public
Residing at Fort Hall, Id

My Commission Expires:

09/18/95



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SCHEDULE "A"

REAL PROPERTY SITUATED IN UINTAH COUNTY, UTAH

Township 2 South, Range 21 East, Salt Lake Meridian

50-14-0001
 02-80-0001

Section 23: Lot 7
 Section 24: Lots 1, 2, 3, 4, 5, 6, 7 and 8
 Section 25: Lot 1
 Section 36: Lots 1, 2, 3, 4, 5 and 6,
 S $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$, W $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$

Township 3 South, Range 21 East, Salt Lake Meridian

03-072-0002

Section 1: Lots 1, 2, and 3

Township 2 South, Range 22 East, Salt Lake Meridian

50-14-0001
 02-82-0002

Section 31: Lots 1, 2, 3, 4, 5, 6, 7, 8 and 9
 Section 32: Lots 2 and 5

Township 3 South, Range 22 East, Salt Lake Meridian

05-102-0001
 0002

Section 5: Lots 2, 3, and 4, SE $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ NE $\frac{1}{4}$

ALSO: Beginning at the North quarter corner of Section 5, Township 3 South, Range 22 East; and running thence North 89°58' West 12.62 chains; thence North 45°15' West 19.55 chains; thence North 13°14' West 14.6 chains; thence North 64° West 17.76 chains; thence North 47°04' East 26.97 chains; thence South 62°05' East 8.89 chains; thence South 11°09' West 22.16 chains; thence South 56°35' East 26.63 chains; thence South 5°14' East 13.5 chains; thence North 89°58' west 1 chain to the place of beginning. AKA: H.E.S. No. 40.

02-083-0002

LESS: 17.46 acres in S $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 5 to UTAH STATE ROAD COMMISSION for road Right-of-Way and 1.66 acres in Lot 2 of Section 5, deeded to U.S.A. for access road easement.

03-103-0001

Section 6: Lots 1, 2, 3 and 4

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SCHEDULE "B"

PATENTED PLACER MINING CLAIMS

THE FOLLOWING PATENTED PLACER MINING CLAIMS, located in Townships 1 South and 2 South, Ranges 21 East and 22 East, Salt Lake Meridian, Uintah County, Utah:

	<u>CLAIM NAME</u>	<u>U.S. MINERAL SURVEY NO.</u>
2-80-0001	ELKTON	6778
2-81-0001	ECLIPSE	6778
	ELPASO	6778
	FAUNTLEROY	6778
	FINDLEY	6778
	BLUE BIRD	6778
	BUCKHORN	6778
	COLONIAL DAMES	6778
	DAMON	6778
	BOSTON	6778
	FREE COINAGE	6778
	FAVORITE	6778
	ENTERPRISE	6778
	MONARCH	6907
	MIDGET	6907
	MARY CASHEN	6907
	GOLD COIN	6907
	ROSE MAUD	6907
	GOLD SOVERIGN	6907
	LOS ANGELES	6907
	LITTLE PLUCK	6907
	LAST DOLLAR	6907
	KEY WEST	6907
	NUGGET	6907
	MOOSE	6907
	GOLDEN AGE	6908
	AJAX	6908
	JOSEPHINE	6908
	ISABELLA	6908
	INDEPENDENCE	6908
	GRANITE	6908
	GOLDFIELD	6908
	THE ARROW	6908
	THE ANCHORIA	6908
	SACRAMENTO	6909
	ROCKY MOUNTAIN	6909
	LUCKY GUS	6909
	LONGFELLOW	6909
	LILLIE	6909
	GOLDEN EAGLE	6909
	KEYSTONE	6909
	PINNACLE	6909

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PHARMACIST	6909
BEM HURR	6909
BLACK BELLS	6909
JACK POT	6910
IRONCLAD	6910
IDA MAY	6910
GOLD KING	6910
CONSTANTINE	6910
CRESSON	6911
COLUMBINE	6911
THE COMPEAN	6911
THE TWIN SISTERS	6911
LITTLE NELL	6911
LITTLE MAY	6911
THE MADISON	6911
GARFIELD	6911
SPECIMEN	6911
SILVER STATE	6911
MARYANN	6911
FRANKLIN	6911
THE REPUBLIC	6912
THE BLUE BELLS	6912
SOLITAIRE	6912
GOLD DOLLAR	6912
THE MODOC	6912
FLOWER OF THE WEST	6912
THE RENO	6912
ZENOBIA	6912
THE MOBILE	6912
THE GOLD STONE	6912
THE MABEL	6912
THE NATIONAL	6913
THE PYTHIAS	6913
THE JOKER	6913
THE IMP	6913
THE JEFFERSON	6913
THE KISMOT	6913
SEDAN	6913
THE MISSOURI	6913
HIGHBOY	6914
FELD SPAR	6914
ESTES	6914
DAGGER	6914
THE CASTILE	6914
BELFRY	6914
GOMPERS	6914
THE SUNSET	6914
THE MAGNET	6914
HERCULES	6909

APPENDIX C

Quarterly Landfill Inspection Form

SF Phosphates Limited Company

Date of Inspection: _____

Time of Inspection: _____

Landfill Condition:

Prohibited Materials Check (Hazardous wastes, Liquids, Excessive organics/foodwastes)

Run-off/Run-on Control Systems:

Presence of Disease Vectors (Rats, Squirrels, Etc.):

Corrective Actions Needed

Date Completed

_____	_____
_____	_____
_____	_____

Inspected By:

Name (Print): _____

Signature: _____