

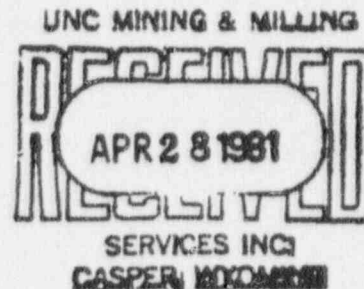


UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

APR 16 1981

WMUR:JLK
Docket No. 40-8602
SUA-1356, Amendment No. 3

United Nuclear Corporation
ATTN: Mr. C. E. Wolff
Project Manager
Wyoming Operations
P. O. Box 2996
Casper, Wyoming 82602



Gentlemen:

Pursuant to Title 10, Code of Federal Regulations, Part 40, and in accordance with your submittal dated November 11, 1980, Source Material License No. SUA-1356 is hereby amended by adding an item "G" to Condition No. 24 and adding a new Condition No. 45 to read as follows:

- 24.G. Notwithstanding the gradation specifications for the drainage zone material, Zone 3, for the evaporation pond embankment listed in Table 1 of item "E" of License Condition No. 24, the licensee shall use the gradation specifications given in a letter from C. E. Wolff, United Nuclear Corporation, to USNRC, dated November 11, 1980, enclosing "Report of Inspection and Testing of Compacted Fill, Proposed Evaporation Pond Embankment, Morton Ranch Project", Appendix C, prepared by Dames and Moore.
45. The licensee shall notify the U. S. Nuclear Regulatory Commission, Region IV, Office of Inspection and Enforcement, 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas 76011, and U. S. Nuclear Regulatory Commission, Uranium Recovery Licensing Branch, Washington, D. C. 20555, at least six weeks prior to resuming construction of the evaporation pond embankment to provide adequate time for an on-site inspection by the NRC.

In addition, the licensee shall submit the details of the abandonment of the water well, as described in Section 8.0 of the document listed in License Condition No. 24 as item "E", that was missing in the November 11, 1980, construction report. This information shall be submitted to the U. S. Nuclear Regulatory Commission, Uranium Recovery Licensing Branch, Washington, D. C. 20555, by May 8, 1981.

8105050638

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

APR 16 1981

All other conditions of this license shall remain the same.

The effect of adding item "G" to Condition No. 24 is to add a document which contains revised gradation specifications for the drainage zone material. The effect of adding Condition No. 45 is to ensure that the evaporation pond embankment will be inspected to determine that it still meets the design specification prior to United Nuclear Corporation resuming construction of the embankment. The above conditions were discussed in a telephone conversation between C. E. Wolff, United Nuclear Corporation, and J. L. Kotsch, NRC on April 13, 1981.

FOR THE NUCLEAR REGULATORY COMMISSION



Ross A. Scarano, Chief
Uranium Recovery Licensing Branch
Division of Waste Management

121 North 3rd Street
Douglas, Wyoming 82633

10. The well is to be constructed on lands owned by Mortons, Inc. (Earl Scott)
(The granting of a permit does not constitute the granting of right of way. If any easement or right of way is necessary in connection with this application, it should be understood that the responsibility is the applicant's. A copy of the agreement should accompany this application, if the land is privately owned and the owner is not a co-applicant.)
11. The water is to be used on lands owned by Mortons, Inc. (Earl Scott)
(If landowner is not the applicant, a copy of the agreement relating to usage of appropriated water on the land should be submitted to this office. If the landowner is included as a co-applicant on the application, this procedure need not be followed.)

Under penalties of perjury, I declare that I have examined this application and to the best of my knowledge and belief it is true, correct and complete.

Richard X. F...
Signature of Applicant or Authorized Agent

June 11, 1970
Date

THIS SECTION IS NOT TO BE FILLED IN BY APPLICANT

THE STATE OF WYOMING } ss.
STATE ENGINEER'S OFFICE

This instrument was received and filed for record on the 15th day of June, A. D. 19 70, at 9:30 o'clock A. M.

Sylvia H. Ross
Sylvia H. Ross for State Engineer

THIS IS TO CERTIFY that I have examined the foregoing application and do hereby grant the same subject to the following limitations and conditions:

This application is approved subject to the condition that the proposed use shall not interfere with any existing rights to ground water from the same source of supply and is subject to regulation and correlation with surface water rights, if the ground and surface waters are interconnected. The use of water hereunder is subject to the further provisions of Chapter 169, Session Laws of Wyoming, 1957, and any subsequent amendments thereto.

Granting of a permit does not guarantee the right to have the water level or artesian pressure in the well maintained at any specific level. The well should be constructed to a depth adequate to allow for the maximum development and beneficial use of ground water in the source of supply.

If the well is a flowing artesian well, it shall be so constructed and equipped that the flow may be shut off when not in use, without loss of water into subsurface formations or at the surface.

Approval of this application may be considered as authorization to proceed with construction of the proposed well.


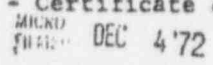
Construction of well will begin within one (1) year from date of approval. A Statement of Completion will be filed within thirty (30) days of completion of construction, including pump installation.

Completion of construction and completion of the beneficial use of water for the purposes specified in Item 4 of this application will be made by December 31, 19 72.

The amount of appropriation shall be limited to the quantity to which permittee is entitled as determined at time of proof of application of water to beneficial use.

Witness my hand this 21st day of July, A. D. 19 70

Thayer A. Bishop
State Engineer

- August 24, 1970 - Notice of Commencement on July 20, 1969 received.
August 24, 1970 - Statement of Completion on July 30, 1969 received.
August 24, 1970 - Notice of Beneficial Use on July 30, 1969 received. 
May 16, 1972 - Certificate of Ownership received. See Misc. Notices, U.W. 6024


NOTE: Do not fold this form. Use type-
writer or print neatly with black
ink.

IF WELL IS TO BE
ABANDONED, SEE
ITEM 15, PAGE 4

STATE OF WYOMING

OFFICE OF THE STATE ENGINEER

STATEMENT OF COMPLETION AND DESCRIPTION OF WELL

(For wells used only for stock or domestic purposes, use Form U.W. 7)

PERMIT NO. U.W. 6024

NAME OF WELL SMX #WW2

1. NAME OF OWNER Teton Exploration Drilling Company, Inc. & Merton's Inc.
2. ADDRESS 254 North Center, Casper, Wyoming Zip Code 82601
3. USE OF WATER: Domestic ☐ Stock Watering ☒ Irrigation ☐ Municipal ☐ Industrial ☒ Commercial ☐
Other _____
4. LOCATION OF WELL: SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 11, T. 35 N., R. 72 W., of the 6th P.M. (or W.R.M.),
Wyoming, being specifically _____ (Bearing and Distance)
or 408 ft. North and 1340 ft. ~~XXXXX~~ West from the SE corner of Section 11, T. 35 N., R. 72 W.
(Strike out words not needed).
5. TYPE OF CONSTRUCTION: Drilled ☒ Rotary (Type of Rig) Dug ☐ Driven ☐ Jetted ☐
Other _____
6. CONSTRUCTION: Total Depth 240 ft. Depth to Water Level 28 ft.
 - a. Casing Schedule New ☒ Used ☐

<u>4 1/2</u> " diameter from <u>0</u> ft. to <u>240</u> ft.	Material <u>J-55</u>	Gage _____
_____ diameter from _____ ft. to _____ ft.	Material _____	Gage _____
_____ diameter from _____ ft. to _____ ft.	Material _____	Gage _____
 - b. Perforations: Type of perforator used Slots cut with a torch
Size of perforations _____ inches by _____ inches.
Number of perforations and depths where perforated:
_____ perforations from 110 ft. to 240 feet.
_____ perforations from _____ ft. to _____ feet.
 - c. Was well screen installed? Yes ☐ No ☒
Diameter: _____ slot size: _____ set from _____ feet to _____ feet.
Diameter: _____ slot size: _____ set from _____ feet to _____ feet.
 - d. Was well gravel packed? Yes ☒ No ☐ Size of gravel _____
 - e. Was surface casing used Yes ☐ No ☒ Was it cemented in place? Yes ☐ No ☐
7. NAME & ADDRESS OF DRILLER Teton Exploration Drilling Company, Inc., 254 N. Cente
8. DATE OF COMPLETION OF WELL (including pump installation) July 30, 1969
9. PUMP INFORMATION: Manufacturer Reda Type Bottom hole centri-
Source of power Generator Horsepower 1.5 Depth of Pump Setting 100' fugal
Amount of Water Being Pumped Less than 25 Gallons Per Minute.

10. PUMP TEST: Was a pump test made? Yes ☐ No ☒

If so, by whom.

Address

Yield: _____ gal./min. with _____ foot drawdown after _____ hours.

Yield: _____ gal./min. with _____ foot drawdown after _____ hours.

11. FLOWING WELL (Owner is responsible for control of flowing well).

If well yields artesian flow, yield is _____ gal./min. Surface pressure is _____ lb./sq. inch, or _____ feet of water.

The flow is controlled by: valve ☐ cap ☐ plug ☐

Does well leak around casing? Yes ☐ No ☐

12. LOG OF WELL: Total depth drilled 240 feet.

Depth of completed well 240 feet. Diameter of well 4 1/2 inches.

Depth to first water bearing formation unknown feet.

Depth to principal water bearing formation Top unknown feet to Bottom feet

Ground Elevation, if known 5175'

[illegible]

QUALITY OF WATER INFORMATION:

Was a chemical analysis made? Yes ☐ No ☒

If so, please include a copy of the analysis with this form.

If not, do you consider the water as: Good ☐ Acceptable ☐ Poor ☐ Unusable ☐

12. TABULATION	Not Available
----------------	---------------

- a. If for irrigation, the land proposed to be irrigated should be described in the following tabulation. Describe in the "Remarks" section, under item 14, the means of conveying the water to the lands and the method of irrigation.

(Give irrigable acreage in each legal subdivision. If proposed use is for supplemental supply for lands with a right from another source, indicate in the tabulation the priority or permit number, the source of supply and the name of the ditch or other well.)

- b. If not used for irrigation, show the area and point(s) of use and location of well in the tabulation below. Also describe the method of conveyance in the "Remarks" section under item 14.

[illegible]

TOTAL NUMBER OF ACRES TO BE IRRIGATED_____

Original Supply.....ac 08

Supplemental Supply.....acres

14. PLAT Not Available

6. If the well is to be used for irrigation, industrial, public utility or municipal use, show the location of the well on the plat below. For such use, a plat certified by a licensed engineer or land surveyor is required to be submitted at the time the Proof of Appropriation and Beneficial Use of Ground Water is submitted.

- b. For other uses, accurately show the well location, point of use or uses and describe method of conveyance of water to points of use on plat and in "Remarks" section below. Make certain location on plat agrees with written description.

- e. A separate map may be submitted if the information required cannot be shown on this plat.

R. _____ W.

R. _____ W. _____

Scale: 2" = 1 Mile

T. N.

T. N.

REMARKS:

15. IF WELL IS TO BE ABANDONED, complete Items 1 through 8, Item 12 (Log of Well) and state reason for abandonment below.

It is the responsibility of the owner to properly plug or fill in the well in order to prevent contamination of ground water and to cover or cap the well at ground level.

Under penalties of perjury, I declare that I have examined this form and to the best of my knowledge and belief it is true, correct and complete.

Richard K. F.
Signature of Owner or Authorized Agent

_____, 19____
Date

_____, 19____
Date of Receipt

_____, 19____
Date of Priority

June 15, 1970

_____, 19____
Date of Approval

for State Engineer

Under penalties of perjury, I declare that I have examined this form and to the best of my knowledge and belief it is true, correct and complete.

Richard S. Lingo
Signature of Owner or Authorized Agent

_____, 19____
Date

Date of Receipt: _____, 19____

PART II

For Irrigation, Industrial, Public Utility and Municipal Wells

A plat which has been certified by a licensed professional engineer or land surveyor shall be submitted to accompany this form. The plat shall be in accordance with Sec. 33-366 Wyoming Statutes (1967 Supp.) or see Chapter IV, Manual of Regulations and Instructions issued by the State Engineer's Office. (Minimum scale shall be 2" = 1 mile.) The map shall be prepared with waterproof black ink on tracing linen or an acceptable equivalent and shall show on a suitable scale the legal subdivisions, the accurate location of the well or wells, storage facilities, if any, main canals, streams, highways and other important cultural features. Land ownership will be shown, if there is more than one owner under the permit.

IRRIGATION WELLS

Acreage irrigated under terms of this permit will be clearly shown with a distinctive pattern and a distinction clearly made between lands having an original supply and those provided a supplemental supply. Where use is for supplemental supply for lands with a right from another source, indicate the priority or permit number of the source, the source of supply and the name of the ditch, pipe line or other well. Conveyance system will be shown and described. Indicate method of irrigation being used.

INDUSTRIAL WELLS

In addition to the information outlined above, industrial users will locate and describe conveyance facilities to the point(s) of use, giving as accurately as possible the location of points of use. Permits for other sources of water must be identified.

MUNICIPAL AND PUBLIC UTILITIES

The plat will show the area of use and show and describe the means of conveyance of the water from the well to the connection with the distribution system for a municipal water system.

For a public utility water system outside the limits of a municipality, the plat will show the area and points of use. An accurate, certified copy of a map or plat of a town or subdivision, of a size corresponding to that described above, that shows the well location and conveyance system will be acceptable to satisfy this requirement. Other sources of water to which the water under this permit will be supplementary should be identified and described as to the source, priority and permit number(s).

AREA CODE 307
248-2433

MORTONS INCORPORATED

Ranches & Livestock

121 NORTH THIRD STREET
DOUGLAS, WYOMING

MAILING ADDRESS
P. O. BOX M
DOUGLAS WYOMING 82633

July 5, 1979

File: State Eng. The

Mr. Phillip A. Valez
Water Rights Analyst
STATE ENGINEER'S OFFICE
Barrett Building
Cheyenne, Wyoming 82002

Re: Stock Reservoir Permit No. 7726 - SMX-2

Dear Mr. Valez:

Please refer to our letter of May 23, 1979, requesting the abandonment of the SMX-2 Stock Reservoir, Permit No. 7726 Stk Res.. I am enclosing a copy of a resolution by the Board of Directors of Mortons Incorporated evidencing the authority of Earl D. Scott in signing the abandonment letter.

Also, for the record, the permit as issued, erroneously described the stock reservoir as being located in the channel of the south fork of Box Creek while in fact it was located in the channel of Mill fork, a tributary of Shafer Draw, which in turn is a tributary of the south fork of Box Creek.

Should you have any further questions, please contact us.

Very truly yours,

(Mrs.) Dorcas M. Day

Dorcas M. Day, Secretary
Mortons Incorporated

D
Enclosure

State of Wyoming, }
Converse County } ss.

I, Anna Froggatt, County Clerk and ex-officio Register of Deeds of Converse, County, Wyoming, do hereby certify that the records of this office show that
Mortons Incorporated
is the owner of the following described land, to-wit:-

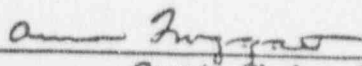
Township 35 N. Range 72 W.

Section 11: SE $\frac{1}{4}$ SE $\frac{1}{4}$

by virtue of a Executrix Deed deed dated 10-31-24 book 109 page 508
This certificate is made from the showing of the record, and is not a guaranty of the sufficiency of the title.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal this
12 day of May, A. D. 19 72

SEAL


County Clerk and ex-officio
Register of Deeds of Converse County, Wyoming.

*My term will expire on the first
Monday in January 1975*

MORTONS INCORPORATED

Ranches & Livestock

121 NORTH THIRD STREET

DOUGLAS, WYOMING

MAILING ADDRESS

P.O. BOX 11

DOUGLAS, WYOMING 82633

AREA CODE 307
358-2482

August 21, 1979

Mr. Phillip A. Velez
Water Rights Analyst
STATE ENGINEER'S OFFICE
Barrett Building
Cheyenne, Wyoming 82002

Re: Stock Reservoir Permit No. 7726, SMX-2

Dear Mr. Velez:

Please refer to our earlier correspondence concerning the abandonment of SMX-2 Stock Reservoir Permit No. 7726 STK. Res.. In conjunction with subject permit, an application for permit to appropriate underground water was filed and Permit No. U. W. 6024 was issued July 21, 1970, for water well SMX #WW2.

My letter dated May 23, 1979, requesting abandonment of the subject permit should be expanded to include cancellation of permit No. U. W. 6024, well SMX #WW2. Proof of ownership is on file in your office.

Very truly yours,

Earl D. Scott
Earl D. Scott, Range Manager and
Treasurer
Mortons Incorporated

EDS/d

PURCHASE ORDER
UNITED NUCLEAR CORPORATION
 MINING & MILLING DIVISION
 WYOMING OPERATIONS
 P. O. BOX 2996
 CASPER, WYOMING 82602

This No. Must Appear on
 Invoice, B L, and Cases.

ORDER No. 10996

Phone (307) 265-6447

DATE October 5, 1979

Foot
 Likins
 Workman

DEPT. _____

ISSUED TO

Roberts Drilling
 4061 Valley Road
 Casper, Wyo. 82601

Shipping Date

F. O. B.

Casper

Frt. Allowed

Quotation

Terms

Net 10 Days

PLEASE SHIP THE FOLLOWING MERCHANDISE SUBJECT TO CONDITIONS BELOW:

SHIP TO

United Nuclear Corporation
 North and South Horton Mines
 65 Miles N.E. of
 Casper, Wyoming 82601

VIA

Your Delivery

We reserve the right to cancel this order if not filled within a reasonable time.
 For prompt payment mail invoice, in triplicate, showing order number with
 bill of lading after shipment is made to P. O. Box 2996, Casper, Wyoming.

Goods rejected on account of inferior quality will be returned with charge
 for transportation both ways, and are not to be replaced except upon receipt
 of written instructions from us.

Acknowledge and advise promptly if unable to make immediate shipment.
 No charges allowed for boxing, crating or packing. Goods subject to our in-
 spection, notwithstanding prior payment to obtain cash discount.

"The Provisions of Executive Order No. 11246 of September 24, 1955, and
 the rules, regulations and relevant orders of the president's committee on
 equal employment opportunity are hereby made a part of this order unless
 exempt thereunder."

INVOICE IN TRIPLICATE

ITEM NO.	QUANTITY	NUMBER	DESCRIPTION	PRICE																
1) ✓			Furnish labor and equipment to drill, case, and grout 6" diameter, 555' deep bore hole at Golden Eagle Mine near saw shop.	\$4,619.64																
2) X			Furnish labor, equipment and material to drill additional monitor well and cement water well No. 2 for abandonment, first two monitor wells, and cementing of two monitor holes.	9,348.43 513,954.07																
<p>Account No. Item 1 - 979-052-299 Item 2 - 742-563-503</p> <p>-----Confirming-----</p> <table border="1"> <thead> <tr> <th>Received By</th><th>Date</th><th>Mark</th><th>Amount</th></tr> </thead> <tbody> <tr> <td>T. Workman</td><td>10/8</td><td></td><td>4615.64</td></tr> <tr> <td>" "</td><td>10/8</td><td></td><td>9348.43</td></tr> <tr> <td>R. W. McCarty</td><td>10/10</td><td></td><td>46.80</td></tr> </tbody> </table>					Received By	Date	Mark	Amount	T. Workman	10/8		4615.64	" "	10/8		9348.43	R. W. McCarty	10/10		46.80
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" "	10/8		9348.43																	
R. W. McCarty	10/10		46.80																	

CONFIRMED

CONFIRMED

Requisition No.

13284, 14412

MINING & MILLING DIVISION
 WYOMING OPERATIONS

Per _____

10996

PURCHASE ORDER
UNITED NUCLEAR CORPORATION
MINING & MILLING DIVISION
WYOMING OPERATIONS
P. O. BOX 2996
CASPER, WYOMING 82602

CHANGE ORDER NO. 1

This No. Must Appear on
Invoice, B.L. and Cases.

ORDER No. 10996

Phone (307) 265-6447

DATE October 10, 1979

Foot
Lilkins
DEPT. Workman

ISSUED TO
Roberts Drilling
4061 Valley Road
Casper, Wyoming 82601

Shipping Date
F. O. B. Casper, Wy.
Frt. Allowed
Quotation
Terms **Net 10 Days**

PLEASE SHIP THE FOLLOWING MERCHANDISE SUBJECT TO CONDITIONS BELOW:

SHIP TO
United Nuclear Corporation
North and South Horton Hines
65 Miles N.E. of
Casper, Wyoming 82601

VIA

Your Delivery

We reserve the right to cancel this order if not filled within a reasonable time.
For prompt payment mail invoice, in triplicate, showing order number with
bill of lading after shipment is made to P. O. Box 2996, Casper, Wyoming.

Goods rejected on account of inferior quality will be returned with charge
for transportation both ways, and are not to be replaced except upon receipt
of written instructions from us.

Acknowledge and advise promptly if unable to make immediate shipment.
No charges allowed for boxing, crating or packing. Goods subject to our in-
spection, notwithstanding prior payment to obtain cash discount.

"The Provisions of Executive Order No. 11246 of September 24, 1965, and
the rules, regulations and relevant orders of the president's committee on
equal employment opportunity are hereby made a part of this order unless
exempt thereunder."

INVOICE IN TRIPLICATE

ITEM NO.	QUANTITY	NUMBER	DESCRIPTION	PRICE
			This is your authority to change our Purchase Order No. 10996 dated October 5, 1979 as follows:	
			ADD TO ITEM NO. 2	
			Additional Material As Per Attached Invoice	\$ 46.80
			NEW PURCHASE ORDER TOTALS	
			ITEM NO. 1	\$4,615.64
			ITEM NO. 2	9,395.23
			TOTAL	\$14,010.87
			This Change Order issued due to late invoice from vendor to contractor; after contractor invoiced consignee.	
			All other items, terms and conditions on the original order remain the same.	
			COMPLETED	

Requisition No. 12776

MINING & MILLING DIVISION
WYOMING OPERATIONS
Per R. J. [Signature] 1/11

ROBERTS DRILLING, INC.

DAILY DRILLING REPORT

CLIENT: *United Nuclear* LOCATION: *Truckee Meadows*

FOOTAGE DRILLED AND/OR CORED

DEPTH RANGE	DRILLED - AIR	DRILLED - WATER	CORED - AIR	CORED - WATER

HOLES DRILLED AND/OR CORED

WELL NO.	DEPTH	DRILLED	CORED	WAITING HOURS	HOLE NO.	DEPTH	DRILLED	CORED	WAITING HOURS
48	132								

*SET SURFACE Casing
Clean out Hole to 135' SET 5" PVC
CEMENT WATER WELL #2 w/ 40 sack*

BITS USED

NO.	MAKE	TYPE	SIZE	CONDITION	SUPPLIER	FOOTAGE

GALLONS FUEL USED

DRILL-GAS-OIL	WATER TRUCK-GAS-OIL	COMPRESSOR-GAS-OIL	PICK UP-GAS-OIL

HOURS OPERATED

UNIT	DRILLING	TRAVELING	STAND BY	MAINTENANCE	OTHER
NO. D-53	6 1/2	1			
TRUCK NO.					
TRUCK NO.					
REBOR NO.					
UP NO.					

CREW	MAN HOURS	MUD	REMARKS
LEADER <i>SE Roberts</i>	9 1/2		<i>Have D-53 & Compressor</i>
DRILLER <i>Don Roberts</i>	9 1/2		<i>Truck to Casper</i>
<i>John Herrera</i>	9 1/2		<i>Phillip E. Williams</i>
<i>9/19/79</i>			<i>1</i>