BEFORE THE INDUSTRIAL COMMISSION

OF THE STATE OF NORTH DAKOTA

CASE NO. 6030 ORDER NO. 6964

IN THE MATTER OF A HEARING CALLED ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF AXEM RESOURCES, INCORPORATED FOR AN ORDER PURSUANT TO SECTION 43-02-03-88.1 OF THE NORTH DAKOTA ADMINISTRATIVE CODE FOR THE CONVERSION TO INJECTION THE FRYBURG FEDERAL #2-23 WELL, LOCATED IN THE NW NE OF SECTION 23, T.139N., R.101W., BILLINGS COUNTY, NORTH DAKOTA.

ORDER OF THE COMMISSION

BY THE COMMISSION:

Pursuant to legal notice this cause came on for hearing at 9:00 a.m. on the 8th day of December, 1994, in Bismarck, North Dakota, before an examiner appointed by the Industrial Commission of North Dakota, hereinafter referred to as the "Commission."

NOW, on this 6th day of January, 1995, the Director, on behalf of the Commission as authorized by the Commission, having considered the testimony adduced and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That Axem Resources, Inc. has applied in Case No. 5994 for an order authorizing the unitized management and operation of the South Fryburg Tyler-Madison Unit.
 - (3) That the Commission has signed an order continuing Case No. 5994.
- (4) That an order in this case, Case No. 6030 should not be considered until after the Commission has entered an order in Case No. 5994
- (5) That there were no objections to continuing this case. IT IS THEREFORE ORDERED:
- (1) That this case is hereby continued for thirty (30) days or until further order of the Commission.

Dated this 6th day of January, 1995.

INDUSTRIAL COMMISSION STATE OF NORTH DAKOTA

By the Director, on behalf of the Commission.

/s/ Wesley D. Norton, Director

BEFORE THE INDUSTRIAL COMMISSION

OF THE STATE OF NORTH DAKOTA

CASE NO. 6030 ORDER NO. 7010

IN THE MATTER OF A HEARING CALLED ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION OF AXEM RESOURCES, INCORPORATED FOR AN ORDER PURSUANT TO SECTION 43-02-03-88.1 OF THE NORTH DAKOTA ADMINISTRATIVE CODE FOR THE CONVERSION TO INJECTION THE FRYBURG FEDERAL #2-23 WELL, LOCATED IN THE NW NE OF SECTION 23, T.139N., R.101W., BILLINGS COUNTY, NORTH DAKOTA.

ORDER OF THE COMMISSION

BY THE COMMISSION:

Pursuant to legal notice this cause came on for hearing at 9:00 a.m. on the 8th day of December, 1994, in Bismarck, North Dakota, before an examiner appointed by the Industrial Commission of North Dakota, hereinafter referred to as the "Commission."

NOW, on this 26th day of January, 1995, the Director, on behalf of the Commission as authorized by the Commission, having considered the testimony adduced and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That Axem Resources, Inc. applied in Case No. 5994 for an order authorizing the unitized management and operation of the South Fryburg Tyler-Madison Unit.
- (3) That the Commission signed Orders No. 6949 and No. 6977 continuing Case No. 5994.
- (4) That final disposition of this case, Case No. 6030 should not be considered until after the Commission disposed of Case No. 5994.
- (5) That the Director signed Order No. 6964 continuing Case No. 6030 for thirty (30) days or until further order of the Commission.
- (6) That the Commission signed Order No. 6978, denying the application made in Case No. 5994.
- (7) That since the application made in Case No. 6030 was for injection into the now denied South Fryburg Tyler-Madison Unit Area, this case should be dismissed.

IT IS THEREFORE ORDERED:

(1) That this case is hereby dismissed without prejudice.

Dated this 26th day of January, 1995.

INDUSTRIAL COMMISSION STATE OF NORTH DAKOTA

By the Director, on behalf of the Commission.

/s/ Wesley D. Norton, Director

STATE OF NORTH DAKOTA)	AFFIDAVIT C	F MAILING
COUNTY OF BURLEIGH)		

I, Donna Bauer, being duly sworn upon oath, depose and say: That on the https://day.org/learned-correct-copies-of-the-attached-order-No._6964 of the North Dakota Industrial Commission, and deposited the same with the United States Postal Service in Bismarck, North Dakota, with postage thereon fully paid, directed to the following persons by the Industrial Commission in Case No. 6030:

Mr. John Morrison Fleck, Mather & Strutz Ltd. P. O. Box 2798 Bismarck, ND 58502

Mr. Lawrence Bender Pearce & Durick P. O. Box 400 Bismarck, ND 58502

Axem Resources Inc. 1675 Broadway Suite 1700 Denver, CO 80202-4617

> Donna Bauer Oil & Gas Division

On this day of day of to be known as the personally appeared to be known as the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.

Notary Public

State of North Dakota County of Burleigh

My Commission expires 11-3-98

STATE OF NORTH DAKOTA)	AFFIDAVIT OF MAILING
COUNTY OF BURLEIGH))	

I, Donna Bauer, being duly sworn upon oath, depose and say: That on the $\frac{3 \, \mathrm{rd}}{2 \, \mathrm{day}}$ of $\frac{2 \, \mathrm{April}}{2 \, \mathrm{April}}$ 1995, I enclosed in separate envelopes true and correct copies of the attached Order No. $\frac{7010}{2 \, \mathrm{April}}$ of the North Dakota Industrial Commission, and deposited the same with the United States Postal Service in Bismarck, North Dakota, with postage thereon fully paid, directed to the following persons by the Industrial Commission in Case No. 6030:

Mr. John Morrison Fleck, Mather & Strutz Ltd. P. O. Box 2798 Bismarck, ND 58502

Mr. Lawrence Bender Pearce & Durick P. O. Box 400 Bismarck, ND 58502

Axem Resources Inc. 1675 Broadway Suite 1700 Denver, CO 80202-4617

Donna Bauer
Oil & Gas Division

On this day of the foregoing instrument and acknowledged that she executed the same as her free act and deed.

Notary Public

State of North Dakota County of Burleigh
My Commission expires

LAW OFFICES OF

FLECK, MATHER & STRUTZ, LTD.

400 EAST BROADWAY, SUITE 600

NORWEST BANK BUILDING

P. O. BOX 2798

BISMARCE, NORTH DAROTA 58502

TELEPHONE (701) 223-6585 TELECOPIER (701) 222-4853 JOHN W. MORRISON ROBERT J. UDLAND* CURTIS L. WIKE* CHARLES S. MILLER, JR.* CRAIG C. SMITH** DEENELLE L. RUUD*

ALSO LICENSED IN:
*MINNESOTA
**MONTANA
*IOWA

ERNEST R. FLECK RUSSELL R. MATHER WILLIAM A. STRUTZ GARY R. WOLBEPG* PAUL W. SUMMERS STEVEN A. STORSLEE* BRIAN R. BJELLA

December 7, 1994

Via Fax and Regular Mail 328-3682

NORTH DAKOTA INDUSTRIAL COMMISSION Oil & Gas Division 1022 East Divide Bismarck, ND 58501

Attn: Jack Wilborn

In re Case Nos. 6028, 6029 and 6030

Dear Jack:

These comments are submitted in the above referenced cases on behalf of Amerada Hess Corporation.

Each of these cases involves a request by Axem Resources, Incorporated to inject fluids into the Fryburg or Tyler formation in connection with Axem's proposed South Fryburg Unit. In Case No. 5994, Amerada Hess Corporation opposed Axem's request for an order approving the unitization of the area. Although Amerada Hess Corporation has no objection to Axem's requests in these cases from a safe drinking water perspective, which we understand to be the objective of the UIC regulations, Amerada Hess Corporation does object to any injection of fluids into the producing formations in the South Fryburg area unless and until an order approving a unit has been issued by the Commission.

We respectfully request that these comments be included in the record for the above captioned cases. If you have any questions, please contact the undersigned at your convenience.

Very truly yours,

JOHN W. MORRISON

bz

cc: Lynn Helms Jim McCarthy

Lawrence Bender (via fax)

LAW OFFICES OF

FLECK, MATHER & STRUTZ, LTD.

400 EAST BROADWAY, SUITE 600

NORWEST BANK BUILDING

P. O. BOX 2798

BISMARCE, NORTH DAROTA 58502

TELEPHONE (701) 223-6585

TELECOPIER (701) 222-4853

December 7, 1994

JOHN W. MORRISON ROBERT J. UDLAND* CURTIS L. WIKE* CHARLES S. MILLER, JR.* CRAIG C. SMITH** DEENELLE L. RUUD*

ALBO DICENSED IN: *MINNESOTA **MONTANA



Via Fax and Regular Mail 328-3682

NORTH DAKOTA INDUSTRIAL COMMISSION Oil & Gas Division 1022 East Divide Bismarck, ND 58501

Attn: Jack Wilborn

In re Case Nos. 6028, 6029 and 6030

Dear Jack:

ERNEST R. FLECK

RUSSELL A. MATHER

WILLIAM A. STRUTZ

GARY R. WOLBERG+

PAUL W. SUMMERS

STEVEN A. STORSLEE^X BRIAN R. BJELLA

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We respectfully request that these comments be included in the record for the above captioned cases. If you have any questions, please contact the undersigned at your convenience.

Very truly yours,

JOHN W. MORRISON

bz

cc: Lynn Helms Jim McCarthy

Lawrence Bender (via fax)

LAW OFFICES OF

FLECK, MATHER & STRUTZ, LTD

400 EAST BROADWAY, SUITE 600 NORWEST BANK BUILDING POST OFFICE BOX 2798

BISMARCK, NORTH DAKOTA 58502

TELEPHONE TELECOPIER (701)223-6585 (701)222-4853

ERNEST R. FLECK RUSSELL R. MATHER WILLIAM A. STRUTZ WARREN H. ALBRECHT, JR. GARY R. WOLBERG+ PAUL W. SUMMERS STEVEN A. STORSLEE* BRIAN R. BJELLA JOHN W. MORRISON DANIEL L. HOVLAND'
ROBERT J. UDLAND'
CURTIS L. WIKE'
CHARLES S. MILLER, JR.'
CRAIG C. SMITH'
SCOTT K. PORSBORG'++
DEENELLE L. RUUD

ALSO LICENSED IN THE HEIGHTA "NONTAHA - 2000A -- SCUTH DAKOTA

TELECOMMUNICATIONS COVER PAGE

PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

NAME: Jack Wilborn

COMPANY OR FIRM: North Dakota Industrial Commission

TELEPHONE NUMBER: 328-3682

FROM: John W. Morrison

TOTAL NUMBER OF PAGES (INCLUDING COVER PAGE);

DATE: December 7, 1994

VERIFIED:

FILE NO .:

IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL BACK AS SOON AS POSSIBLE TO: 701/223-6585 - Switchboard

TRANSMITTED BY: B. Zahn

CONTIDENTIALTY NOTE: The information contained in this facultative measure is legally philosopic and confidenced information intermediate only for the use of the individual or entry named above. If the reader of this intercept is not the threshold incipient, you are needed that any use, discontinuous, arcopy of this telecopy is strictly prohibited. If you have received this telecopy in error, please inemediately notify us by billiphone and return the original increasing to us at the address above via the United States Postal districts. Thank you.

MESSAGE:

The hard copy of this will follow:

The hard copy of this will not follow:

PEARCE & DURICK

ATTORNEYS AT LAW

THIRD FLOOR

314 EAST THAYER AVENUE

P. O. BOX 400

BISMARCK, NORTH DAKOTA 58502

TELEPHONE (7011 223-2890

OF COUNSEL HARRY J. PEARCE

<u>VIA FACSIMILE</u>

December 6, 1994

Mr. John W. Morrison, Jr. Attorney at Law 400 E. Broadway, Suite 600 P. O. Box 2798 Bismarck, ND 58502-2798

NDIC CASE NOS. 6028, 6029 AND 6030

Dear John:

WILLIAM R. PEARCE 1910-1978 WILLIAM P. PEARCE

PATRICK W DURICK B. TIMOTHY DURICK

CHRISTINE A. HOGAN

JOEL W. GILBERTSON
LAWRENCE A. DOPSON
GARY R. THUNE
DAVID E. REICH
JEROME C. KETTLESON
LARRY L. BOSCHEE
LAWRENCE BENDER

JANET D. SEAWORTH MICHAEL F. MCMAHON STEPHEN D. EASTON

This will confirm our telephone conversation today wherein you indicated that neither you nor anyone representing Amerada Hess Corporation ("Hess") will appear in opposition to the above-captioned cases scheduled for December 8, 1994. As we discussed, the position of Hess with respect to the above-captioned cases will be expressed in letter form and will be delivered to the Commission sometime late Wednesday afternoon or early Thursday morning with a copy of the same forwarded to me.

As we further discussed, the reason for my inquiry as to whether you or anyone representing Hess intended to appear in opposition to the above-captioned matters was to arrange personnel from Axem Resources, Incorporated ("Axem")to travel from Denver to Bismarck to attend the hearings. Based on your verbal representation that neither you nor representatives of Hess will appear in opposition and that your comments will be limited to a letter to the Commission, Axem will likely not have a witness present at the hearings.

If the foregoing does not accurately set forth your understanding of our discussions concerning this matter, please contact me immediately

LB/leo

cc: Mr. Charles Carvell Via U.S. Mail

Mr. Weslev Norton Via U.S. Mail

Mr. Bruce Hicks Via U.S. Mail

Mr. David Dix Via U.S. Mail

Mr. Brook Phifer Via U.S. Mail





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Signature T Watter Simula Tit	le Dilling Technician 9-23-94
STATE OF COLORADO COUNTY OF DENVER	Notary Seal
On <u>September 23</u> , 19 94 ,T. <u>Matthew Arno</u> executed the foregoing instrument, personally appeared before me	known to me to be the person developed by ER My, and we and acknowledged that (s)he executed the same as a local transfer and deed.
Ndiary Public Jennifer Mueller Address: 1675 Broadway, Suite 1700 Denver, CO 80202	_ My Commission Expires <u>3-12-96</u> PUBLIC
	INSTRUCTIONS

- 1. If an injection well is to be drilled, an Application For Permit To Drill SFN 4615 (Form 1) also must be complete and accompanied by a plat prepared by a registered surveyor and a drilling fee.
- Attach a plat depicting the area of review (1/4 mile radius) and detailing the location, well name, and operator of a wells in the area of review. Include: injection wells, producing wells, plugged wells, abandoned wells, drilling wells, dry holes, and water wells.
- 3. Attach a tabulation of data on all wells within the area of review that penetrated the proposed injection zone include: location, date drilled, total depth, well type, construction, and record of plugging or completion. If may be submitted in schematic form.
- 4. Attach a quantitative analysis from a state approved laboratory of fresh water from the two nearest fresh wat wells.
- 5. Attach a quantitative analysis from a state approved laboratory of a representative sample of water to be injected.
- # 6. Describe the lithology of the proposed injection zone and confining zones.
 - Attach all available logging and test data on the well concerning the proposed injection zone that has not bee previously submitted.
 - 8. Briefly describe the proposed injection program.
 - 9. Attach a list identifying all source wells.
 - Attach schematic drawings of the system including current wellbore construction and proposed wellbore ar surface facility construction.
 - 11. List the needed corrective action on wells penetrating the injection zone in the area of review.
- 12. Include a description of land ownership within the area of review. List ownership by tract or submit in plat form.
- 13. Attach a certificate of notification to land owners in area of review and include letter sent.
- 14. Attach a Sundry Notice SFN 5749 (Form 4) detailing the proposed procedure.
- 15. Read sections 43-02-05-04 of the oil and gas regulations to insure that this application is complete.
- 16. The original and four copies of this application and attachments shall be filed with the Industrial Commission, C and Gas Division.

BEFORE THE NORTH DAKOTA STATE INDUSTRIAL COMMISSION

IN THE MATTER OF THE APPLICATION OF AXEM RESOURCES INCORPORATED FOR ADMINISTRATIVE APPROVAL UNDER RULE 43-0203-88.1. FOR THE AMENDMENT TO CONVERT TO AN INJECTION WELL THE FRYBURG FEDERAL 2-23 WELL, LOCATED AT THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 23, TOWNSHIP 139 NORTH, RANGE 101 WEST, BILLINGS COUNTY, NORTH DAKOTA.

AFFIDAVIT OF APPLICATION FOR FLUID INJECTION

I, T. Matthew Arnold, being of legal age, and first duly sworn, do hereby depose and state that on the 23th day of September, 1994, I am enclosing for the North Dakota State Industrial Commission's review the Application For Fluid Injection (Form 14). Axem Resources Incorporated is requesting approval of Form 14 to inject salt water into the Tyler formation. For your review are attachments and exhibits that contain all the information required by law as well as all the information the applicant wants the commission to consider in deciding whether to grant approval of Form 14. As representative for Axem Resources Incorporated for the Above application please contact me at (303) 629-5800 should you have any questions.

Further Affiant saith not.

AXEM RESOURCES INCORPORATED

Applicant

T. Matthew Arnold 1675 Broadway, Ste 1700

Denver, CO 80202-4617

STATE OF COLORADO)

)ss

COUNTY OF DENVER)

Subscribed and sworn to before me this 23rd of September, 1994.

NOTARY PUBLIC

My commission expires:

APPLICATION FOR FLUID INJECTION

FRYBURG FEDERAL #2-23 Section 23-T139N-R101W Billings County, North Dakota

EXHIBITS

- 1. Attached is a plat detailing the location, name and operator of all wells in the area of review. EXHIBIT A.
- 2. Attached is the quantitative analysis of fresh water from the nearest fresh water well. EXHIBIT B.
- 3. Attached is the quantitative analysis of representative samples of water to be injected. EXHIBITS C,C1,C2.
- 4. There are no wells in area of review that penetrated the proposed injection zone other than the Fryburg Federal #2-23 itself. Included is a tabulation of the data of the Fryburg 2-23 well. EXHIBIT G.
- 5. Lithology of the proposed injection zone is Tyler Sandstone.
- 6. Enclosed is a Cement Bond Log. The NDSIC office should have all other logs and DST information on file.
- 7. The proposed injection program is as follows: Average injection of 1500 BPD at 100 psi and maximum wellhead injection of 2,000 BPD at 2,300 psi.
- 8. Attached is the well schematic of subsurface construction. EXHIBIT D. Surface construction will consist of a wellhead. EXHIBIT D1. There will be an underground flowline from the Tracy Mountain #10-25 well to the Fryburg Federal #2-23 well. See EXHIBIT D2 for the proposed water gathering and distribution system to be implemented throughout the unit.
- 9. Water source wells are as follows:

Tracy Mtn #10-25

25-T139-R101

Billings County

Plus produced formation water from other S. Fryburg wells:

#5-19,	#7-19,	#14-19,	#14-19T,	#16-19	19-T139-R100	Billings	County
	#10-30				30-T139-R100	Billings	County
#9-23.					23-T139-R101	Billings	County
#2-24,	#14-24				24-T139-R101	Billings	County
		#12-25			25-T139-R101	Billings	County
#9-27	•				27-T139-R101	Billings	County
#4-35,	#2-35,	#10-35,	#12-35	-··	35-T139-R101	Billings	County
#2-36,				•	36-T139-R101	Billings	County

- 10. No corrective action on wells penetrating the injection zone in the area of review is needed.
- 11. Attached is the certificate of notification to landowners in area of review (1/4 mile). Included is a description of land ownership in the area of review. EXHIBIT E.
- 12. Attached is a Sundry Notice (Form 4) detailing the proposed procedure.

14-27

EXHIBIT B

ASTRO-CHEM LAB, IN 4102 2nd Ave. West

P.O. Box 972

Phone: (701) 572-7355

WATER ANALYSIS REPORT

DATE OF

8-12-94

CITY Belfield

COMPANY Axem Resources

SAMPLE NUMBER W-94-2255

STATE ND

WELL NAME AND/OR NUMBER

DATE RECEIVED 8-12-94

DST NUMBER

SAMPLE SQUECE

Quonset Hydrant

LOCATION

Center OF SEC. 18 TWN.

139N RANGE

100W COUNTY Billings, N

FORMATION

DEPTH

DISTRIBUTION Mick Homiston - Belfield, ND

RESISTIVITY @ 77°F = 5.964 Ohm-Meters

pH =8.01

SPECIFIC GRAVITY 0 77°F = 0.996

HxS = Neq

TOTAL DISSOLVED SOLIDS (CALCULATED) = 1553 mg/L (1560 ppm)

SODIUM CHLORIDE (CALCULATED) = -

8 mg/L (8 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	0.1	2	CHLORIDE	0.1	5
MAGNESTUM :	0.1	1	CARBONATE	0.0	0
SODTUM	19.4	445	BICARBONATE	17.6	1074
J RON	0.0	0.1	SULFATE	0.5	22
CHROMIUM	0.0	0.0	NITRATE	0.1	7
BARTUM	0.0	0.0		5.2	J
FOTASSIUM	0.0	1			

		WATER ANALYSIS PATTERN			
Na, K	1.0 1	9	0	1.0	C1
Са	1.0	0	18 .	1.0	HCC
Мд	1.0	0	5	0.1	SO •
FC	0.1	0	0	0.1	CO ₃

REMARKS Date Sampled 8-11-94

Conductivity = 1685.3 pmhos/cm

FXHIBIT

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

Williston, North Dakota 58802-0972

P.O. Box 972

Phone: (701) 572-73

8 - 12 - 94

WATER ANALYSIS REPORT

SAMPLE NUMBER N-94-2256

COMPANY Axem Resources

CITY Belfield

STATE ND

WELL NAME AND/OR NUMBER Allan Richard Ranch

DATE RECEIVED 8-12-94

DST NUMBER

DATE OF

SAMPLE SOURCE Entry Way Sink

LOCATION

NW SW

OF SEC. 14 TWN. 139N RANGE 101W COUNTY Billings,

FORMATION:

DEFTH

DISTRIBUTION Mick Homiston - Belfield, ND

PESISTIVITY @ 77°F = 6.542 Chm-Meters

pH = 8.37

SPECIFIC GRAVITY 0 $77^{\circ}F = 0.998$

HzS = Nea

TOTAL DISSOLVED SOLIDS (CALCULATED) = 1450 mg/L (1453 ppm)

SODIUM CHLORIDE (CALCULATED) = 93 mg/L (93 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM	0.1	2	CHLORIDE	1.6	56
MAGNESIUM .	0.0	o	CARBONATE	0.5	15
SODIUM	18.0	413	BICARBONATE	13.3	812
IRON	0.0	0.0	SULFATE	3.0	145
CHROMIUM	0.0	0.0	NITRATE	0.1	6
BARIUM	0.0	0.0			
COTASSIUM	0.0	1			

WATER ANALYSIS PATTERN

Na,K	1.0 1	18	2	1.0
	1.0		13	. 1.0
Mg	1.0	0	30	0.1
Fe	0.1	0	5	0.1

MEO/L

REMARKS Date Sampled 8-10-94

Conductivity = 1631.8 pmhos/cm

EXHIBIT C

ASTRO-CHEM LAB, INC.

4102 2nd Ave. West

Williston, North Dakota 58802-0972

P.O. Box 972

Phone: (701) 572-

WATER ANALYSIS REPORT

SAMPLE NUMBER W-94-0635

COMPANY Axem Resources

CITY Belfield

ND STATE

WELL NAME AND/OR NUMBER Duncan Source Well-

DATE RECEIVED 3-11-94

DST_NUMBER

DATE OF

SAMPLE SOURCE Source Well

LOCATION

OF SEC.

TWN.

RANGE

COUNTY Billings

NW SW Section 9 R101W T138N **DEPTH**

Dakota FORMATION

DISTRIBUTION Mick Homiston - Belfield, ND

RESISTIVITY @ 77°F = 0.149 Ohm-Meters

pH = 7.76

SPECIFIC GRAVITY @ 77°F = 1.040

H2S = Neg

TOTAL DISSOLVED SOLIDS (CALCULATED) = 52514 mg/L (50494 ppm)

SODIUM CHLORIDE (CALCULATED) = 49129 mg/L (47239 ppm)

mg/L	MEQ/L	ANION	mg/L	MEQ/L	CATION
29793	840.4	CHLORIDE	389	19.6	CALCIUN
O	0.0	CARBONATE	27	2.4	MAGNESIUM
598	9.8	BICARBONATE	20400	887.4	SODIUM
1153	24.0	SULFATE	0.2	0.0	IRON
0	0.0	NITRATE	0.1	0.0	CHROMIUM
			2.0	0.0	BARIUM
			152	3.9	POTASSIUM

		WATER ANALYSIS PATTERN	
Na,K 10	0.0 9	i 	8 100.
Ca	1.0 20		10 1.
Mg	1.0 2		24 1.
Fe	0.1 0		0 0.
		HEQ/L	

REMARKS Date Sampled 3-8-94

EXHIBIT C1

ASTRO-CHEM LAB

4102 2nd Ave. West

Williston, North Dakota 58802-0972

P.O. Box 972

Phone: (701) 572-7

WATER ANALYSIS REPORT

SAMPLE NUMBER W-94-0610

COMPANY Axem Resources CITY Belfield

DATE

3-9-94

ND

WEILL NAME AND/OR NUMBER Fryburg Federal #2-24

DATE RECEIVED

3-8-94

DST NUMBER

SAMPLE SOURCE

Treater

LOCATION

NW NE

OF SEC. 24

TWN. 139N RANGE

101W COUNTY Billings

STATE

FORMATION Tyler

DEPTH

<u>DISTRIBUTION</u> Mick Homiston - Belfield, ND

RESISTIVITY @ 77°F = 0.050 Ohm-Meters

pH =5.77

SPECIFIC GRAVITY @ 77°F = 1.140

H₂S = Neg

TOTAL DISSOLVED SOLIDS (CALCULATED) = 199667 mg/L (175146 ppm)

SODIUM CHLORIDE (CALCULATED) = 201130 mg/L (176430 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM MAGNESIUM SODIUM IRON CHROMIUM BARIUM POTASSIUM	580.0 80.0 2779.5 4.1 0.1 0.2 15.0	11507 889 63900 77.0 0.6 12.0 585	CHLORIDE CARBONATE BICARBONATE SULFATE NITRATE	3440.4 0.0 1.2 13.5 0.0	121973 0 73 650 0

WATER ANALYSIS PATTERN

Na,K	100.0 28	34 رــــــــــــــــــــــــــــــــــــ	100.0 CI
Ca	1.0 6	12	0.1 HC
Mg	1.0 8	14	1.0 SO
Fe	0.1 41		0.1 CO

MEQ/L

REMARKS Date Sampled 3-7-94

ASTRO-CHEM LAR

EXHIBIT C2

4102 2nd Ave. West

P.O. Box 972

Phone: (701) 57:

1.0 0.1

3-14-94

WATER ANALYSIS REPORT

SAMPLE NUMBER W-94-0634

COMPANY Axem Resources

CITY Belfield

STATE ND

WELL NAME AND/OR NUMBER Tracy Mountain Federal 14-24

DATE RECEIVED 3-11-94

DST NUMBER

DATE OF

SAMPLE SOURCE Treater

Mg

Fе

LOCATION S 1/2 OF SEC. 24 TWN. 139N RANGE 10W COUNTY

FORMATION Missian Canyon "C"

DEPTH

<u>DISTRIBUTION</u> Mick Homiston - Belfield, ND

RESISTIVITY @ 77°F = 1.000 Ohm-Meters

pH = 7.51

SPECIFIC GRAVITY @ 77°F = 1.010 H2S = Neg

TOTAL DISSOLVED SOLIDS (CALCULATED) = 8972 mg/L (6903 ppm)

JDIUM CHLORIDE (CALCULATED) = 5605 mg/l (5550 ppm)

CATION	MEQ/L	mg/L	ANION	MEQ/L	mg/L
CALCIUM MAGNESIUM SODIUM IRON CHROMIUM BARIUM POTASSIUM	15.4 2.6 92.6 0.0 0.0 0.0	308 29 2130 0.1 0.0 0.0	CHLORIDE CARBONATE BICARBONATE SULFATE NITRATE	95.9 0.0 3.6 16.1 0.0	3399 0 220 771 0
Na,K 10.0 1		WATER ANA	ALYSIS PATTERN	10	10.0
Ca 1.0 1	15			38	0.1

MEQ/L

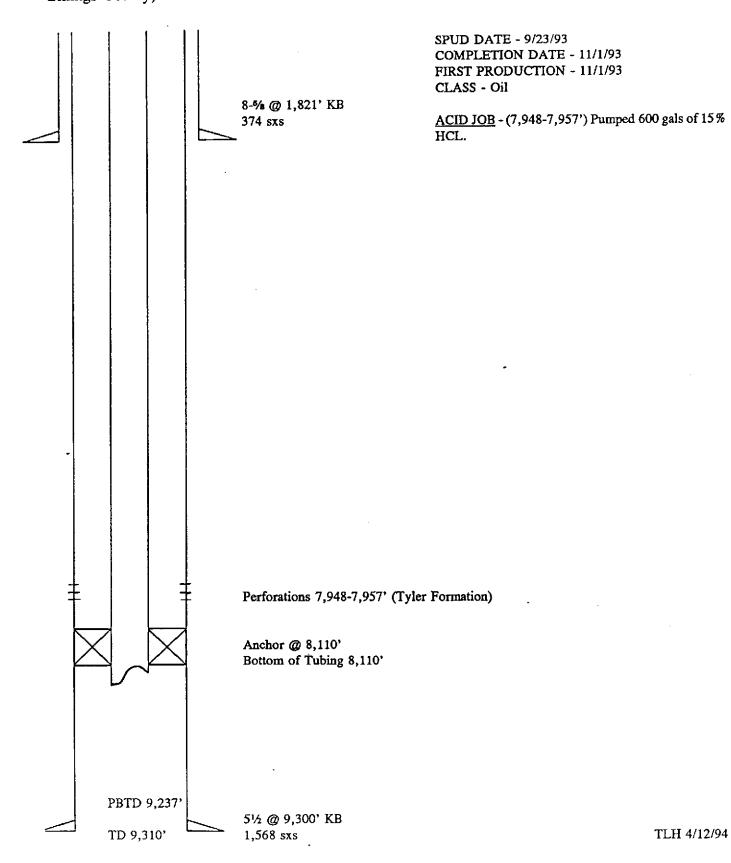
REMARKS Date Sampled 3-8-94

0.1 0_____

1.0 3_____

EXHIBIT G

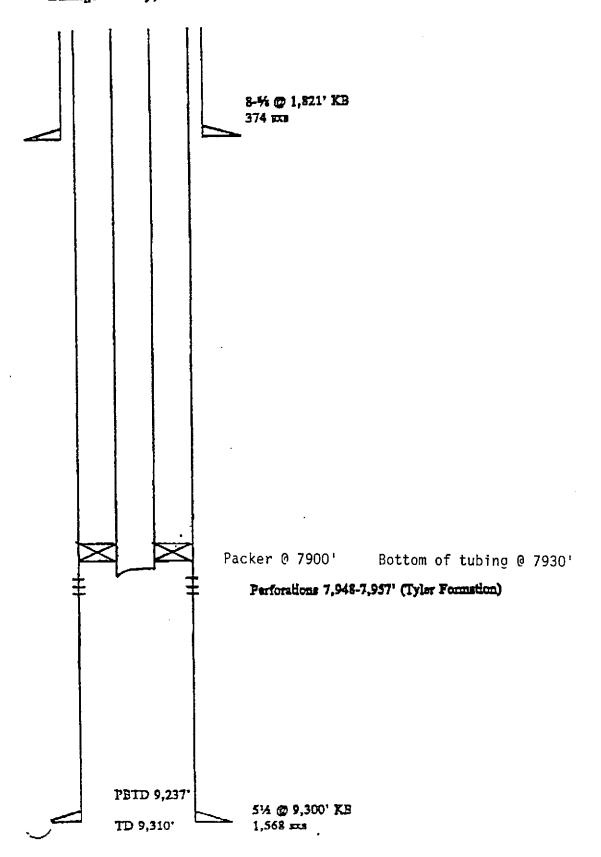
FRYBURG FEDERAL #2-23 NW NE Section 23-T139N-R101W Billings County, North Dakota

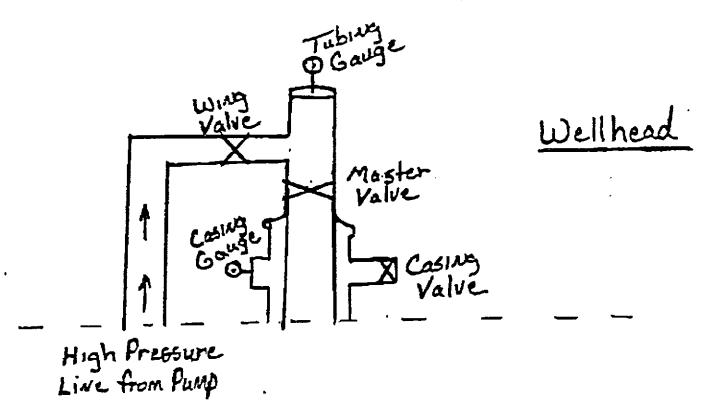


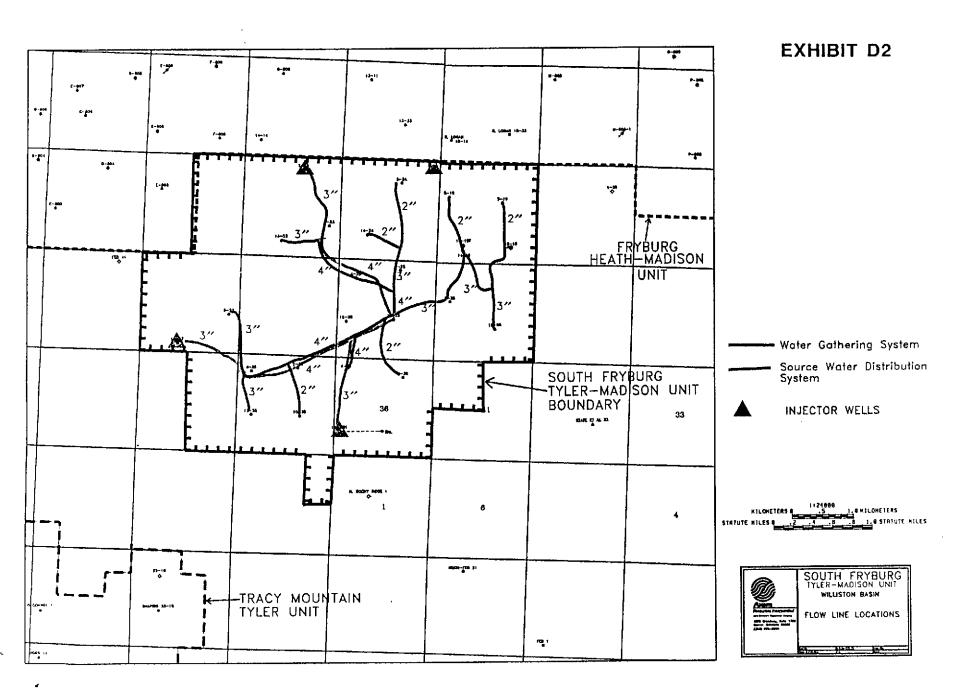
SCHEMATIC FOR CONVERSION TO INJECTION

FRYBURG FEDERAL #2-23 NW NE Section 23-T139N-R101W Billings County, North Dakota

EXHIBIT D











DESCRIPTION OF LAND OWNERSHIP IN AREA OF REVIEW

Surface Owners of All Sec 23 T139N-R101W

U.S.D.A. - Forest Service Route 6 Box 131B Dickinson, ND 58601

Bureau of Land Management Dickinson District Office 2933 Third Avenue West Dickinson, ND 58601

Surface Owner of S 1/2 S 1/2 Sec 14 T139N-R101W

Byron Richard 12751 39th Street West Belfield, ND 58622

EXHIBIT F

Copy of returned receipts to land owners:

#	SENDER:			-		
sid	 Complete items 1 and/or 2 for additional services. 		I also wish to receive the			
õ	Complete items 3, and 4a & b.		following services (for an extra-	ę.		
ž	 Print your name and address on the reverse of this form so the return this card to you. 	at we can	fee):	.≥		
reverse	Attach this form to the front of the mailpiece, or on the back	if space	1. Addressee's Address	Service		
			71 E 7166165555 5 71661655			
the	 Write "Return Receipt Requested" on the mailpiece below the ar 					
on 1		Consult postmaster for fee.				
0	3. Article Addressed to:	40 Artic	,	Receipt		
ĕ	3. Alticle Addressed to.	4a. Article Number				
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completed			vice Type	Return		
ŏ	Byтon Richard	☐ Regis	tered Insured			
		∑ Certif	fied 🔲 COD	using		
សួ	Belfield, ND 58622	Expre	ss Mail Return Receipt for	ŝ		
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ADDRESS		7. Date	of Delivery	<u>-</u>		
⋖	<i>2-2</i> 3		9-16-74	Š		
Z	5. Signature (Addressee)	8. Addr	essee's Address (Only if requested	ح آ		
- 5	o. Orginatore productor		ee is paid)	<u>_</u>		
RET		4		ع		
ā	6. Signature (Agent)			_		
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>	PS Form 3811, December 1991 *U.S. GPO: 1992-32	3-402 DC	MESTIC RETURN RECEIPT	Ē		
67	2					
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8	Bureau of Land Management	4b. Servi	ce Type	et.		
Ś	Dickinson District Office	Regist				
S	2933 Third Avenue West	⊠ _Certifie	ed 🗆 COD	nsing		
뜻	Dickingon MD Encor	☐ Expres	s Mail Return Receipt for	S		
ADDRESS completed	Dickinson, ND 58601		Merchandise	<u> </u>		
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S i	5. Signature Addressee)	<u> </u>	15-7478	No.		
5		Addres	see's Address (Only if requested	>		
<u> </u>	Contell reen	and fee	is paid)	ž ·		
EEI'	5. Signature (Agent)		9	<u> </u>		
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<u>≈</u> P	S Form 3811, December 1991 *U.S. GPO: 1992-323-4	∞ DOM				
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<u>.</u> و	Attach this form to the front of the mailpiece, or on the back of		STIC RETURN RECEIPT			
the rev	Attach this form to the front of the mailpiece, or on the paux of does not permit. Write "Return Receipt Requested" on the mailpiece below the artic	e number	Section Receipt	pr		
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September 7, 1994

U.S.D.A. - Forest Service Route 6 Box 131B Dickinson, ND 58601

> RE: <u>Fryburg Federal #2-23</u> Surface Owner: U.S.D.A.

> > NW NE Sec 23-T139N-R101W Fryburg Field Billings County, North Dakota

Dear Sir or Madam:

Axem Resources Incorporated intends to convert the above stated producing well to a Water Injection well for the purpose of waterflooding the Tyler formation in the S. Fryburg Tyler-Madison Unit. The existing producing tank battery will be replaced by an injection pump and water tanks.

Permit applications are being prepared for the State of North Dakota.

This letter has been sent via certified mail to comply with the regulations of the North Dakota State Industrial Commission. A hearing will be scheduled with the NDIC on this matter in October.

If you should have any questions, please do not hesitate to reach me at the above letterhead address.

Sincerely,

AXEM RESOURCES INCORPORATED

T. Matthew Arnold Drilling Technician





September 7, 1994

Bureau of Land Management Dickinson District Office 2933 Third Avenue West Dickinson, ND 58601

> RE: <u>Fryburg Federal #2-23</u> Surface Owner: U.S.D.A.

> > NW NE Sec 23-T139N-R101W Fryburg Field

Billings County, North Dakota

Dear Sir or Madam:

Axem Resources Incorporated intends to convert the above stated producing well to a Water Injection well for the purpose of waterflooding the Tyler formation in the S. Fryburg Tyler-Madison Unit. The existing producing tank battery will be replaced by an injection pump and water tanks.

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Sincerely,

AXEM RESOURCES INCORPORATED

T. Matthew Arnold Drilling Technician





September 7, 1994

Byron Richard 12751 39th Street West Belfield, ND 58622

> RE: Fryburg Federal #2-23 Surface Owner: U.S.D.A.

> > NW NE Sec 23-T139N-R101W

Fryburg Field

Billings County, North Dakota

Dear Mr. Richard:

Axem Resources Incorporated intends to convert the above stated producing well to a Water Injection well for the purpose of waterflooding the Tyler formation in the S. Fryburg Tyler-Madison Unit. The existing producing tank battery will be replaced by an injection pump and water tanks.

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This letter has been sent via certified mail to comply with the regulations of the North Dakota State Industrial Commission. A hearing will be scheduled with the NDIC on this matter in October.

If you should have any questions, please do not hesitate to reach me at the above letterhead address.

Sincerely,

AXEM RESOURCES INCORPORATED

T. Matthew Arnold Drilling Technician

SUNDRY NOTICES AND REPORTS ON WELLS - FORM 4

INDUSTRIAL COMMISSION OF NORTH DAKOTA OIL AND GAS DIVISION SFN 5749 (2-92)

- ,,					[Well File	Number 515	·
LEASE READ INSTRUCTIONS	ON BACK OF FORM	<u> </u>	<u> </u>					
Notice of Intent Approximate Start Date			□Drilling Prognosis □Redrilling or Repair □Casing or Liner			□Spill Report □Shooting □Acidizing		
☐ Report of Work Done Date Work Completed			□Plug Well □Supplemental History □Temporarily Abandon			☐ Fracture Treatment ☐ Change Production Method ☐ Reclamation ☑ Other Fluid Injection		
						L	F	PRODUCTIO
Well Name and Number Fryburg Federal #2-23	,			•			BEFORE Dil	Oil Oil
Footages 680' FNL & 2100' FEL		Qtr-Qtr NW-NE		Township T139N	Range R101W		Vater	Water
Field Fryburg Field	Pool Tyler		County Billings Count	ty			Sas	Gas
Name & Contractor UNKNOWN AT THIS TIME								
Address			City		S	State	2	Zip Code
		Đ	ETAILS OF WORK	<u></u>				
We propose converting the as follows: 1. Move in and rig up wo 2. Install 3000# BOP. 3. Pull pump. 4. Run tubing below performation 5. Pull out of hole. 6. Run new 2 7/8" K-55 7. Fill back side with cor 8. Set packer at 7,900 f	rkover unit. foration, cleaning plastic coated turosion inhibited w	out fill. Ibing with I		saltwater o	tisposal we	II. Proced	dure for o	conversion
Company Axem Resources Inc Address 1675 Broadway, Su				(DE	NIED	OR OFFICE		
City Denver		State CO	Zip Code 80202-4617	Dat				
$\mathbf{p}_{i} = 7 1 \cdot 1$	1 // /	Date .	A	l IBv				

Telephone Number

303-629-5800

Title

Drilling Technician

Title

NOTICE OF PUBLICATION NORTH DAKOTA INDUSTRIAL - COMMISSION BISMARCK, NORTH DAKOTA

10 Jan 1 4 1 4

The State of North Dakota by its Industrial Commission hereby gives notice pursuant to law and the rules and regulations of said Commission: promulgated thereunder of the following public hearing to be held at 9:00 a.m. on December 8, 1994. Oil and Gas Division Office, 1022 East Divide Avenue, Bismarck, North Dakota. For the purpose of this hearing, the Commission, any member thereof acting as Examiner, or an Examiner appointed by the Commission will receive testimony and exhibits.

ATTENTION PERSONS WITH DISABILITIES:: If you plan to attend the hearing and will need special facilities or assistance relating to a disability, please contact the North Dakota Industrial Commission at 701-224-3722 by November 25,

STATE OF NORTH DAKOTA TO: All named parties and persons having any right, title, interest, or claim in the following cases and notices to the public. CASE NO. MISSION TO CONSIDER THE APPLICATION OF AXEM RESOURCES INCORPORATED FOR AN ORDER PURSUANT TO SECTION 43-02-03-88.1 OF THE NORTH DAKOTA ADMINISTRATIVE CODE FOR THE CONVERSION TO CODE FOR THE CONVERSION TO INJECTION THE FRYBURG FEDERAL #14-27 WELL, LOCATED IN THE SE SW OF SECTION 27, T.139N., R.101W., BILLINGS COUNTY, NORTH DAKOTA. CASE NO. 6029: ON A MOTION OF THE COMMISSION TO CONSIDER THE APPLICATION. APPLICATION OF AXEM RESOURCES INCORPORATED FOR AN ORDER PURSUANT TO SECTION 43-02-03-88.1 OF THE SECTION 43-02-03-88-1 OF THE NORTH DAKOTA ADMINISTRATIVE CODE FOR THE CONVERSION TO INJECTION THE TRACY MOUNTAIN #12-36H WELL, LOCATED IN THE W2 SW OF SECTION 36, T.139N., R.101W., BILLINGS COUNTY NORTH DAKETA CASE NO TY, NORTH DAKOTA CASE NO.
6030: ON A MOTION OF THE COMMISSION TO CONSIDER THE
APPLICATION OF AXEM RESOURCES INCORPORATED FOR AN ORDER PURSUANT TO SECTION 43-02-03-88.1 OF THE NORTH DAKOTA ADMINISTRATIVE CODE FOR THE CONVERSION TO INJECTION THE FRYBURG FED-ERAL #2-23 WELL, LOCATED IN THE NW NE OF SECTION 23,T.139N., R.101W., BILLINGS COUNTY, NORTH DAKOTA.

Signed by, Edward T. Schafer, Governor Chairman, ND Industrial Commission

(Pioneer, Nov. 17, 1994)

ATTIC	avit of	Publica	ition	
Official Nov	Billings Co	unty Pioneer	: 0/5 ⁵⁹²	921203 4
Official New	shahei ioi M	edora and Bill		y 1997
STATE OF NORTH DAK County of Billings	(OTA,) s	s		Ti.
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(1)D Inc	lustual	Comm	ission))
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Notary Public SETTE OF NORTH DAKOTA My Commission Expires July 15, 1998

THE BISMARCK TRIBUNE

P.O. BOX 1498 BISMARCK, NORTH DAKOTA 58502-1498 (701) 223-2500 IN STATE (800) 472-2273

IND COMM-BIL & G AS DIV

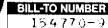
500 SISMARCK HOULEVARD NO 58505 ‡‡C254

LEGAL P

	BILL-TO NUMBER 154770-3		BILLIN	IG PERIOD		VENDOR	NUMBER		D=Distributio I=Inches L=Lines	n
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	NOTICE OF PUBLICAT NORTH DAKOTA INDUSTRIAL COMMISS BISMARCK, NORTH DAI The State of North Dakota by Commission hereby gives notice	SION KOTA its Industrial		01547709) P.T	5001 		1	olt	• !
	law and the rules and regulal Commission promulgated there following public hearing to be a.m. on <u>December 8, 1994,</u> Nort and Gas Division Office, 1022 Avenue, Bismarck, North Dak- purpose of this hearing, the	under of the held at 9:00 h Dakota Oil East Divide ota, For the						-		
·	any member thereof acting as I an Examiner appointed by the will receive testimony and exhib ATTENTION PERSONS WITH TIES: If you plan to attend the	Examiner, or Commission its. 1 DISABILI ·						<u>; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; </u>	· · · · · · · · · · · · · · · · · · ·	
	will need special facilities 0 relating to a disability, please North Dakota Industrial Comm 224-3722 by November 25, 1994. STATE OF NORTH DAKO	r assistance contact the ission at 701.			<u>.</u>	\$35 F15 F1 F1	F OF PUBLICATI	ON .		
	All named parties and person: right, title, interest/or claim in cases and notices/to the publicates on A MOTION OF THE CONSIDER/ THE APPLIA	the following c. CASE_NO. COMMISSION CATION OF					r (d. 1992) 3 iu 1992, tri ro, 20 strog, tritrii haaus	nation	e of Pub	L. /
	AXEM RESOURCES, INCO FOR AN ORDER PURSUANT 43-92-93-88.) OF THE NORT ADMINISTRATIVE CODE FOI VERSION TO INJECTION THI FEDERAL #14-27 WELL, LI	H DAKOTA R THE CON E FRYBURG				Ya		11/16	1:505	23
A Number of Street, Table 1	THE SE SW OF SECTION R.161W BILLINGS COUNT DAKOTA. CASE NO. 6023: OF OF THE COMMISSION TO COL APPLICATION OF AXEM	27, T.139N., TY, NORTH N.A. MOTION NSIDER THE			;	Promy Fu	And the same for the s	(813 to 161 d)	2000 (61 cm) 	ig in Civilian a
	INCORPORATED FOR AN 0 SUANT TO SECTION, 43-02-03- NORTH DAKOTA ADMIN CODE FOR THE CONVERSIO TION THE TRACY MOUNT	RDER PUR 88.1 OF THE : ISTRATIVE : N TO INJEC [AIN #12.36H								
- Wange Strike Jang Strike	WELL, LOCATED IN THE W2 TION 36, T.139N., R.101W COUNTY, NORTH DAKOTA 6030: ON A MOTION OF THE TO CONSIDER THE APPL AXEM RESOURCES, INC.	, BILLINGS CASE NO COMMISSION ICATION OF DRPORATED	, <u>.</u>				A CONTRACTOR OF THE CONTRACTOR			
	FOR AN ORDER PURSUANT 43:02 03-88.1 OF THE NOR: ADMINISTRATIVE CODE FO VERSION TO INJECTION TH FEDERAL #2-23 WELL, LOCA NW NE OF SECTION 23, T.1	TH DAKOTA OR THE CON IE FRYBURG STED IN THE							. .	
	BILLINGS COUNTY, NORTH I Signed by, Edward T. Schafer, Gove Chairman, ND Industrial	DAKOTA. rnor					PAYME Due 10th of m	NT TER		

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