

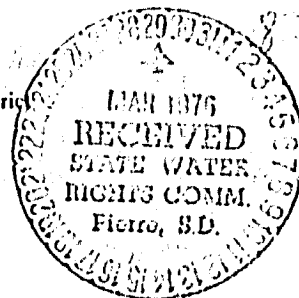
2668-3

1. Considered MAY 20, 1976
2. Name of Applicant PEARL CREEK HUTTERIAN BROTHERN, INC.
3. Post Office Address ILLINOIS
4. Amount of water claimed 1.95
5. Source of water supply 75' DEEP WELL
6. Water to be used for IRRIGATION
Acres to be irrigated 135
7. Water to be diverted and used in BEADLE county
about 3W, 3S miles of ILLINOIS
8. Proof of Publication
Received 4-27-76
Not received _____
9. Application
Approved _____
Subject to _____
Not Approved _____
Action deferred _____
10. Remarks:

No. 2063-3Map No. 2034-3Water Division No. 3JAMES RIVER

District

(Blanks to be filled by the Engineer for the W. R. C.)



APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE--Draw a line through items not applicable)

1. Name of Applicant Pearl Creek Lutheran Brothorn Inc.
 Postoffice address R R 2 Iroquois, State South Dakota 57353
 If a corporation show date and place of incorporation March 1, 1950 Iroquois, So. Dak.
2. Method of accomplishing work (contract, employment of others, or by direct labor) direct labor
3. Name of diversion work Pearl Creek Lutheran Brothorn Inc. Unit # 1
4. Amount of water claimed (cubic feet per second) 1.95
5. Source of water supply ground water
6. Location of point of diversion CENTER OF THE NW⁴ SECTION 16, T10N, R54W

County Beadle

7. Annual period or periods during which water is to be used March-November
8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation
9. For irrigation use, Total number of acres to be irrigated 135

List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.
N.W. 1/4-16-110-59	135		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 2 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Daily Plainsman, Huron, So. Dak.
12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

Pump Bowl

B. Works proposed to transport water to place of use.

Main Line

C. Works proposed to apply water to beneficial use.

Center Pivot

Estimated Total Cost \$ -----

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.
 (See instructions concerning preparation.)

STATE OF SOUTH DAKOTA

County of Beadle

I, Pearl Creek Lutheran Brothorn Inc. the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed W. A. ColonySubscribed and sworn to before me this 11th day of March 19 76

Notary Public (or other qualified officer)

Comm. expires 3/4/84

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2668-3
PEARL CREEK HUTTIERIAN BROTHERN, INC. R.R. #2, ILLINOIS
 (Applicant) (Post Office address)
SOUTH DAKOTA 57353 With the following amendments:
 (State)

The irrigation well approved under this Permit is located near domestic wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in existing domestic wells.

**CANCELLED 4-5-79
 INCORPORATED INTO
 WATER LICENSE #4114-3**

Date of first receipt of application MARCH 29, 1976
 Date of return to applicant for correction, amendments or changes required 19
 Date of receipt of corrected application APRIL 2, 1976
 Approved MAY 20, 1976, Recorded in Book 15 Page 119

WATER RIGHT PERMIT NO. 2668-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2668-3, authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is MARCH 29, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before NOVEMBER 20, 1978
3. The whole of said work is to be completed on or before MAY 20, 1981
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MAY 20, 1983
5. The water appropriated shall be used for the purpose of IRRIGATION
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 1.95 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MAY 20, 1983; said water to be used during the following described annual period: MARCH - NOVEMBER

Witness my hand this 8TH day of JUNE, 19 76

WATER RIGHTS COMMISSION

By:

John Hatch
 Chief Engineer, Executive Officer

Certificate of Construction Issued NOVEMBER 15, 1977

Water License Issued NOVEMBER 15, 1977

MURKIN DRILLING INC. DRILLERS LOG

PAGE NO.

Pearl Creek Mutherian Brothers
JOB NAME Inc.

N.W. 16-110-59 Beadle

Co. 3/11/76

15

Karl Osberg

JOB NAME

Inc.

LOCATION

DATE _____

RIG NO.

FOREMAN

[illegible]

12 Principal Features of the Proposed Water Supply System (continued.)

D. Well Information or Estimates

(1) Dr. Hole, Diameter 28, Depth 75

(2) Casing, Type PVC Plastic Sch. 40 Diameter 15 1/2" Thickness .410
(wood, concrete, steel, etc)

(3) Perforated Screen

Type 100 Slot PVC Plastic Sch. 40, Diameter 15 1/2", Length 40'

(4) Gravel Pack, Thickness 6", Length of gravel pack 75'

E. Dugout Information or Estimates * Drillers Log will be furnished by driller.

(1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout.

(1) Water Bearing Materials. (Please attach a copy to test well log if available.)

Character of Water bearing materials _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

(2) Distance to nearest existing household or livestock watering wells.

On same owner's property 40 rds. On property owned by others 480 rds.

G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

Pearl Creek Colony
* [Signature]
Signature of Applicant

Form 15.

Permit No. 2668-3

Water Diversion No. 3 James River Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That Pearl Creek Hutterian Prethern, Inc.

_____ the holder _____ of
Permit No. 2668-3, issued upon Application No. 2668-3, bearing date of priority of March 29,
1975 authorizing the diversion of 1.95 cu. ft. per second of the waters of _____
ground water County of Beadle, State of South Dakota at _____
a point 1345'S & 1320'E of the NW corner, Section 16, T110N,
R59W
_____, for irrigation

purposes, have _____ complied with the provisions of the laws of the State of South Dakota relating to proof of
completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory
condition for diverting and conveying to the place of intended use 1.78 cu. ft. per second of water.

Date September 15, 1977

By:

~~WATER RIGHTS COMMISSION~~
WATER RIGHTS COMMISSION

John Hatch
JOHN HATCH, Chief Engineer

WATER LICENSE NO. 2668-3

(1) WHEREAS, On the 29th day of March, A. D. 1976

Pearl Creek Hutterian Brethern, Inc.

made Water Right Application No. 2668-3 for a permit to use 1.95 cubic feet per second of the waters of ground water

County of Beadle, State of South Dakota, for irrigation

purpose; and

(2) WHEREAS, On the 20th day of May, A. D. 1976

Permit No. 2668-3, with a date of priority of March 29, 1976

was issued to said applicant for the diversion of said water, and provided for the completion of construction of the water supply system therein described on or before the 20th day of May, A. D. 1981 and for the application to beneficial use of said water on or before the 20th day of May, A. D. 1983

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to completion of the construction of the water supply system and is entitled to divert 1.78 cubic feet per second of water for beneficial use and.

(4) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to the application of water to beneficial use of the following extent.

for irrigating a B2 acre circle in the NW $\frac{1}{4}$, Section 16, T110N, R59W

(5) NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota, We hereby grant and confirm to Pearl Creek Hutterian Brethern, Inc.

_____ of Iroquois

the holder _____ and owner _____ of said permit No. 2668-3 a water right, dating from March 29, 1976

_____ to use of 1.78 cubic feet per second of the waters of ground water

in the County of Beadle and State of South Dakota, or so much thereof as may be necessary for the purposes hereinbelow mentioned, to be diverted at _____

a point 1345'S & 1320'E of the NW corner, Section 16, T110N, R59W

and conduct to and upon a 132 circle in the NW $\frac{1}{4}$, Section 16, T110N, R59W

for the purpose of irrigation

Subject to any limitations listed in Water Right Permit No. 2668-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 15th day of September A. D.
Nineteen Hundred and seventy-seven

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer **JOHN HATCH**

March 25, 1976

Pearl Creek Hutterian Brethern
Iroquois, SD 57353

Dear Sirs:

Enclosed you will find the original report of analysis for water sample #76-220 received here about a week ago. I am also enclosing a receipt for your payment and a copy of AES publication #13 with some information about irrigation and soil-water reactions. On the outside back cover of this circular, you will find a water quality chart and the approximate quality of your water for irrigation purposes indicated by a red cross drawn therein. The water is in the high salinity, low sodium category.

This water carries enough salt to present a moderate hazard on poorly drained soils or moderately poorly drained soils for salt accumulation in the root zone. Therefore, it should be used with careful management and observation of what is happening to the soil. It would be wise to have the soil sampled every 3 or 4 years and check it for salinity at various depths. Water should be applied in substantial amounts (no less than 3 inches) and not any more often than 3 times in any growing season. This kind of management tends to increase the depth of penetration of water and distribute the salts throughout a greater soil depth with the consequence that natural leaching will occasionally remove substantial amounts of salts from the root zone. Frequent, light applications of this kind of water will cause accelerated build-up of salt in the upper part of the soil and detract seriously from the performance of most crops in a matter of relatively few years if the soils are not well drained.

There is a low sodium situation in this water, so there is no hazard of sodium-caused dispersion of colloids and loss of soil structure.

A copy of this letter, and your check to the Water Commission, and your WI-1 form, plus a copy of the water analysis and your application materials are being sent to the State Conservation Commission for their action, and forwarding to the State Water Board.

Sincerely yours,

L. O. Fine

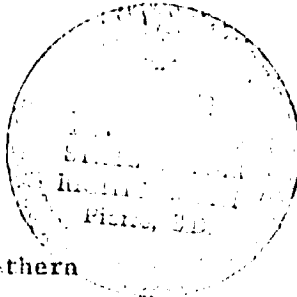
L. O. Fine

Water Quality Lab

LOF:ckh

Enclosures

cc: State Conservation Commission, D. Pahl, Dick Fadgen, Huren Drilling Co.



REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57006

Submitted by: Pearl Creek Eutlerian Brethern Rec'd March 15, 1976
 Address: Iroquois, SD 57353 Sample No. 76-220
Huron Drilling, Inc. Identification # 1 Well-
P.O. Box 1422 NE 1/4, Sec. 16, T 110N, R 59W
Huron, SD 57350

WATER ANALYSIS

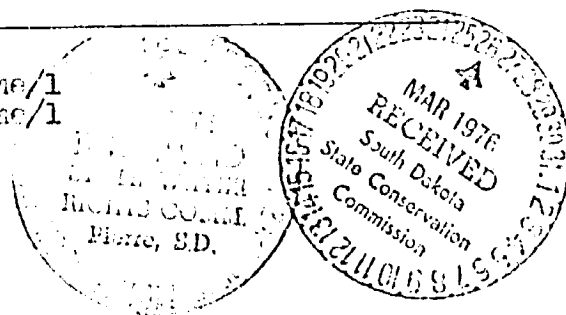
Calcium (Ca)	150	ppm*	7.50	me/l**
Magnesium (Mg)	49	ppm	4.02	me/l
Sodium (Na)	60	ppm	2.61	me/l
Potassium (K)	9	ppm	0.23	me/l
Sulfate (SO ₄)	315	ppm	6.55	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	22	ppm	0.62	me/l
Bicarbonate (HCO ₃)	351	ppm	5.76	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	288	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1003	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	1.09			
Sodium	18.17	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.56			

*ppm=parts per million

**me/l=millequivalents per liter

***g.p.g.=grains per gallon

COMMENTS: Total cations 14.36 me/l
 Total anions 12.93 me/l



By: Shirley Hitten

Service Performed	Amount Due
Irrigation analysis	\$8.00 PAID

Make checks payable to: Water Quality Laboratory

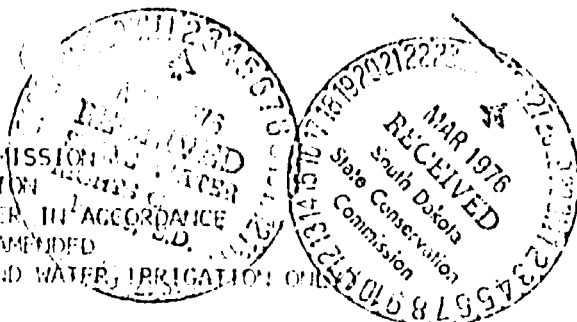
Cut along dotted line and return the lower portion with payment

Sample No. 76-220

Amount Enclosed \$

Signed

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER, IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION ONLY)



COUNTY Beadle

1. WELL LOCATION: Center of the N.W. 1/4-16-110-59

2. LOCATION OF AREA TO BE IRRIGATED N.W. 1/4-16-110-59

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT X GUN _____

4. CROPS TO BE IRRIGATED corn, alfalfa, small grain

5. SAMPLE NUMBER 76-220

6. SALINITY (EC x 10⁶) 1003 (high)

7. SODIUM (SAR) 1.09 (low)

8. RESIDUAL SODIUM CARBONATE (meq/l.) 0.0

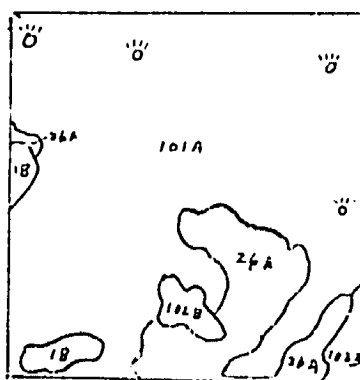
Geord Creek Colony
2-22-22
APPLICANT'S SIGNATURE


 (TITLE OR SEAL)
 Comm. expires 3/4/84

APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

SOILS MAP



NW 16-110-59

SOILS LEGEND

18 Tetonka-Hoven silt loams

This unit consists of poorly drained soils in enclosed depressions. Permeability is very slow and surface drainage is lacking. Dense compact subsoils and ponding generally limit these soils for irrigation. Drainage is desirable under irrigation.

26A Dudley-Stickney silt loam, 0 to 3 percent slopes

This unit consists of moderately well drained soils with 4 to 10 inches of friable loamy surfaces over dense claypan subsoils. These soils have slow permeability and salts in the subsoil. Included within these units are small areas of enclosed depressions.

101A Houdek-Prosper loams, 0 to 2 percent

This unit consists of deep well and moderately well drained loamy soils with calcareous substratums. The subsoils contain 30-35% clay. Depth to the calcareous clay loam substratum ranges from 18 to 30 inches. Permeability is moderately slow. Included within these areas are small enclosed depressions and small areas of soil with claypan subsoils which contain salts. Drainage or fill of these included areas may become desirable to prevent ponding and excessive wetness.

102B Houdek-Prosper loams, 2 to 6 percent slopes.

The Houdek and Prosper soils are described in the 101A mapping unit above. The unit differs primarily in the degree of slope.

Pearl Creek Mutherian Brethern

Soil Conservation Service
Beadle County

Permit No. 2668-3Water Division 3 James River Water DistrictREPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE

TO: Water Resources Commission, State Office Building No. 2, Pierre, South Dakota 57501

I have this day made a thorough examination of the water use system constructed by pearl Creek
Hutterian Brethren, Inc.of RR # 2, Iroquois, S. Dak. 57353 holder
of Permit No. 2668-3, bearing date of priority of March 20, 1976authorizing the diversion of 1.95 cu. ft. per second of the waters of Ground
for Irrigation purposes in Beadle County.

I have to report on the condition of the same as follows:

The Water Use System consists of,

A. Works used to divert the water: Pump: Layne Bowler, pumping 800 gpm
Motor: High Thrust, US Electrical, HP-60, RPM 1770
ID # R 6234-00-811.B. Works used to transport water to place of use,
Aluminum Pipe - 8" dia - 25 ft long.C. Works used to apply water to beneficial use,
Lockwood Center Pivot, Model 22009 T.
Sec # 735876.The system is in the following condition: ExcellentThe point of diversion is located 1345 ft South and 1370 ft East of the NW
corner of section 16, T110N R59W.The works are capable of diverting and conveying to the place of use 1.78
cu. ft. per second of water which is to be used for IrrigationWater has been put to beneficial use to the maximum extent as follows: All in Sec. 16, T110N R59W.
NW 1/4 NW 1/4 = 33 Ac. NE 1/4 NW 1/4 = 33 Ac, SW 1/4 NW 1/4 = 33 Ac. SE 1/4 NW 1/4 = 33 Ac.comprising a total of 132 acres of land.

Well Data-

Depth 68 ft.Depth to Water 25 ft.Casing - 16" dia.Tested 1500 gpm

Date

Sept 30, 1976Leroy J. Munnigh
(Signature)

Publish first publication, on or before May 6, 1976NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

Apr. 13, 1976

Notice is hereby given that Pearl Creek Lutterian Brothers, Inc.
whose post office address is Iroquois, South Dakota, has made an application in accordance
with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use
1.95 cubic feet of water per second of time from the ground water through the
Pearl Creek Colony #1, the point of diversion of which is to be located in the _____

Center of the NW 1

of Section 16, Twp. 110N, Range 50W. Said water to be used for the purpose
of providing irrigation on ^{portions of} the following described land:
NW 1, Section 16, T110N, R50W

This application No. 2668-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 20th day of May, 1976, at 1:00 P. M. All interested
persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

cc:

Roses Waldner, Pearl Creek Colony, R.R. #2, Iroquois, SD 57353

Jones R

Form 8 - Proof of Publication - Notice of
Intent to Appropriate Water

No. 26683

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Pierre) ss.

I, Burton F. Jones hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Lower Pearl River

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the _____

_____ of _____

County of Hendler and State of South Dakota,
that the said notice was published in said newspaper on the following
two dates:

April 16, 1976

April 23, 1976

Burton F. Jones
(Signature)

Water Rights Specialist
(Title)

April 27, 1976
(Date Signed)

F.P. 41676 L.P. 42376

NOTICE INTENT TO
APPROPRIATE WATER
Pierre, South Dakota 57501
April 13, 1976

Notice is hereby given that Pearl
Creek Lutheran Brethren, Inc.
whose post office address is
Iroquois, South Dakota, has made an
application in accordance with the
provisions of the water laws of South
Dakota for a permit to appropriate
for beneficial use 1.95 cubic feet of
water per second of time from
ground water through the Pearl
Creek Colony No. 1, the point of
diversion of which is to be located in
the Center of the NW 1/4 of Section 16,
Twp. 110N, Range 59W. Said water
to be used for the purpose of
providing irrigation on portions of
the following described land: NW 1/4,
Section 16, T110N, R59W.

This application No. 26683 will be
considered by the Water Rights
Commission at their office at Pierre
upon the 20th day of May, 1976, at
1:00 P.M. All interested persons
may appear and be heard.

WATER RESOURCES COM-
MISSION
By: BURTON F. JONES
Water Rights Specialist
No. 178 (adv.)



NOTICE OF COMPLETION OF WORKS AND/OR APPLICATION OF WATER TO BENEFICIAL USE
DEPARTMENT OF NATURAL RESOURCE DEVELOPMENT

DIVISION OF WATER RIGHTS

JOE FOSS BUILDING

PIERRE, SOUTH DAKOTA 57501

TO: Water Resources Commission
State Office Building No. 2
Pierre, South Dakota 57501Post Office Sioux Falls, S.D.Date 6-14-76

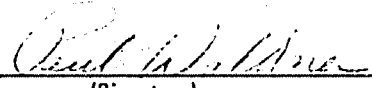
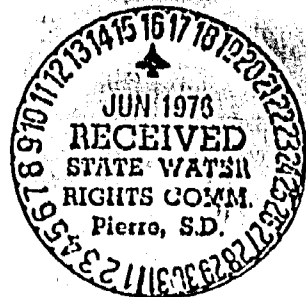
Dear Sirs:

This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 2668-3.

Water Right Permit No. 2668-3 states that the diversion system is to be constructed by April 30, 1976 and that the water is to be put to beneficial use by June - 14, 1976.

The diversion system was completed on May 3, 1976. Applying the water to beneficial use was completed on June 14, 1976.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.


(Signature)

HURON DRILLING INC.
WELL LOCATION MAP

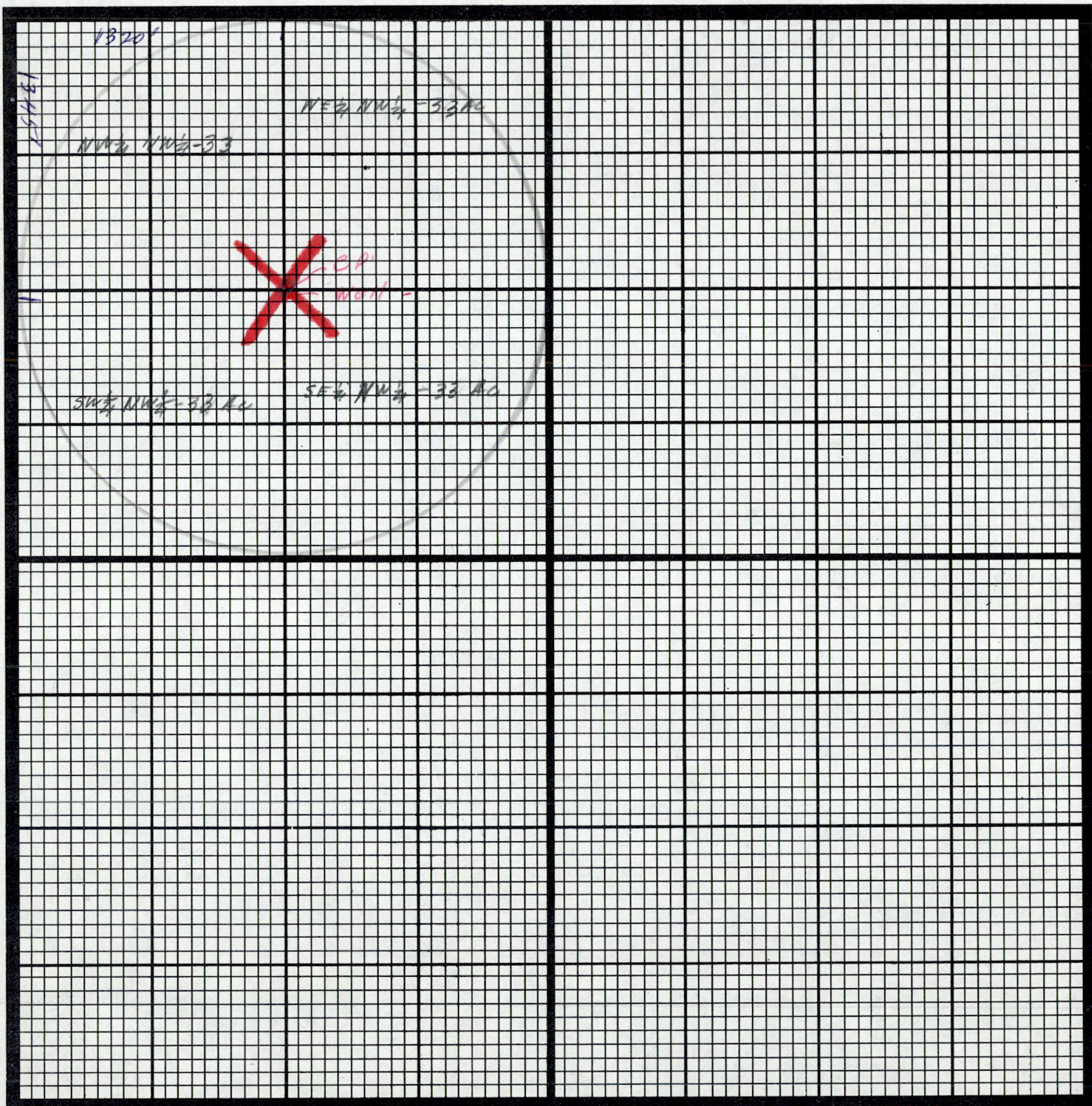
NAME Pearl Creek Hutherian Brothern Inc.

DATE March 11, 19 76

WELL NO. 1

N.W. QUARTER, SECTION 16

TWP. 110 RANGE 59 IN Beadle COUNTY



Prepared By Dick Fadgen
Dick Fadgen

X — PROPOSED LOCATION

Beadle County Ext. Agent

MAP NO 2034-3 (APPL NO 2661-3)