APPLICATION FOR A PERMIT (Form 1)

1. We (applicants) Prowihan Salt Company LLC
Address: 6256 Greenway Plaza Blvd, Suite 100, Greenwood Village, CO 80111

2. OWNER NUMBER: 9B11

3. TYPE OF WELL:

4. Is the well location or production facility within an unplanned area as defined by ORC 5529.07?

5. MAIL PERMIT TO:

6. COUNTY:

7. TOWNSHIP:

8. RANGES:

9. TRACT:

10. PARCEL:

11. WATER NUMBER:

12. LEASE NAME:

13. PROPOSED TOTAL DEPTH:

14. PROPOSED GEOLOGICAL FORMATIONS:

15. DRILLING UNIT ACRES:

16. ATTACH LANDOWNER ROYALTY LISTING:

17. IF PERMITTED PREVIOUSLY:

18. IF PERMITTED PREVIOUSLY:

19. FOR PLUGGING APPLICATIONS:

20. PROPOSED CASING AND CEMENTING PROGRAM:

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive Pipe</td>
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<td>38</td>
<td>97</td>
<td>400</td>
<td>122</td>
<td>974</td>
<td>3638</td>
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<td>Conductors</td>
<td>38</td>
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<td>97</td>
<td>200</td>
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<tr>
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<td>200</td>
<td>61</td>
<td>250</td>
<td>938</td>
<td>Lakes</td>
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<tr>
<td>Production 1</td>
<td>40</td>
<td>12</td>
<td>38</td>
<td>97</td>
<td>200</td>
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<td>Production 2</td>
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<tr>
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<td>15</td>
<td>70</td>
<td>180</td>
<td>1500</td>
<td>455</td>
<td>5640</td>
<td>25820</td>
<td>Lakes</td>
</tr>
<tr>
<td>Liner 2</td>
<td>50</td>
<td>15</td>
<td>70</td>
<td>180</td>
<td>1500</td>
<td>455</td>
<td>5640</td>
<td>25820</td>
<td>Lakes</td>
</tr>
</tbody>
</table>

Signature of Owner/Authorized Agent:

Name: Hooker
Title: President

If signed by Authorized Agent, a certificate of appointment of agent must be on file.

Sworn to and subscribed before me this the 5th day of March 2000.

Amy Escobedo
(Notary Public)
2-14-22

(Data Commission Expires)

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS RESOURCES MANAGEMENT
5200 WOODSIDE RD, BLDG. C, COLUMBUS, OH 43228-6950
Phone: (614) 644-6783 / Fax: (614) 644-6789
SURVEYOR'S CERTIFICATION

THIS WELL LOCATION MAP MEETS THE SPECIFICATIONS SET FORTH IN OHIO ADMINISTRATIVE CODE 1501:9-1. THIS PLAT IS NOT A BOUNDARY SURVEY AS SPECIFIED IN OHIO ADMINISTRATIVE CODE 4733-37 AND IS SUBJECT TO ALL FACTS REVEALED BY A TITLE EXAMINATION.

* STATE OF OHIO *

STEPHEN JAMES HALLIGAN
PROFESSIONAL SURVEYOR 

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
STEPHEN J. HALLIGAN
PROFESSIONAL SURVEYOR NO. S-7251

STATE OF OHIO

STATE OF WEST VIRGINIA

O H I O R I V E R

STATE OF OHIO, COUNTY OF MONROE,
TOWNSHIP OF SALEM
TOWNSHIP 3, RANGE 3, SECTION 15
OLD SEVEN RANGES

U.S.G.S. 7.5 MINUTE QUADRANGLE - POWHATAN, OHIO

SUBMITTAL & REVISION RECORD

RECEIVED
MARCH 10, 2020

DIVISION OF OIL & GAS

UIC PLAT
POWHATAN SALT COMPANY LLC
SALT-1
Situated In
TOWNSHIP OF SALEM
MONROE COUNTY, OHIO
Made For
POWHATAN SALT COMPANY, LLC

<table>
<thead>
<tr>
<th>NO</th>
<th>DATE</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1/4/2017</td>
<td>DON'T COMMENT - INCOMPLETE</td>
</tr>
<tr>
<td>2</td>
<td>1/10/2020</td>
<td>REVISED FOR ISSUE PURPOSES</td>
</tr>
</tbody>
</table>

DRAWN BY: D.A.
CHECKED BY: JIN
PROJECT NO.: 103414
APPROVED BY: S.J. 

SCALE: AS NOTED
DRAWING NO.
2/16/2020
PLAT SHEET 2 OF 2
Supplemental Form 1

Supplemental 18. Landowner Royalties

- **Landowner with Salt Rights and Salt Royalties:**
  Mountaineer NGL Storage LLC
  6295 Greenwood Plaza Blvd, #1
  Greenwood Village, Colorado 80111

- **Mineral Rights and Mineral Royalties (excluding Salt, Oil & Gas):**
  CONSOL Energy Inc.
  CNX Center
  1000 CONSOL Energy Drive, Suite 100
  Canonsburg, PA 15317-6506

- **Oil & Gas Rights and Royalties:**
  CNX Resources Corporation
  1000 CONSOL Energy Drive
  Canonsburg, PA 15317
31. PROPOSED INJECTION ZONE
Geological Formation: Please attach supporting data for the formation to be injected for non-native brine formations.
Injection Interval: From _______ to _______.
For new projects where the proposed injection zone is a water-bearing formation, determine fluid pressure, fracture pressure, and physical and chemical characteristics of the formation fluids. When the injection zone is not a water bearing formation, submit only the fracture pressure. Attach all calculations and analyses.

32. WELL CONSTRUCTION AND OPERATION
A. Description of the proposed casing and cement program for new wells, or of the casing, cementing or sealing with prepared clay for existing wells to be converted:
The proposed equipment to be used is described in the application.

B. Proposed method for testing the casing:
Casing testing, including testing for leaks at the mud line, should be conducted to determine the well's integrity. The results of the test will be submitted to the Division of Oil and Gas Resources Management.

C. Description of the proposed method for completion, stimulation and operation of the injection/withdrawal well:
The injection/withdrawal well shall be designed to operate under the following conditions: The permitted daily injection rate shall be 100,000 gal. per day and the withdrawal rate shall not exceed 50,000 gal. per day. The injection/withdrawal well shall be monitored for injection pressures up to 200 psi and injection rates up to 500 gpm. The injection/withdrawal well shall be equipped with a pressure relief device.

33. Describe any expected changes in pressure, native-fluid displacement and direction of movement of injection fluids:
The Delta Formation is the water-bearing formation to be injected at a rate of 100,000 gal. per day. The injection/withdrawal well shall be equipped with a pressure relief device.

34. Description of existing or proposed monitoring grids and surveying methods to be used in obtaining year-round measurement of second order accuracy for the detection of ground surface movement. Describe monitoring types, construction and emplacement:
A network will be established using the well pads, laser-determined points, and surveying planned at future intervals. The survey will be conducted by a qualified surveyor.

35. Describe plan for meeting the monitoring requirements of paragraph (b) of Rule 1501:9-7-06 of the Administrative Code:
A daily monitoring plan will be submitted to the Division of Oil and Gas Resources Management. At least once a month, static samples will be taken. The results of the static samples will be reviewed. If necessary, the monitoring plan will be revised.

36. QUALITATIVE ANALYSIS OR RANGES IN CONCENTRATIONS:
A. PROPOSED INJECTION VOLUMES:
Indicate the estimated volume of fluid to be injected per project or per well per day (individual or group project cycle):

<table>
<thead>
<tr>
<th>Average</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000,000 gal per day</td>
<td>10,000,000 gal per day</td>
</tr>
</tbody>
</table>

B. PROPOSED INJECTION PressURES:
Indicate the estimated pressure to be used for injection of fluids into the proposed injection zone:

<table>
<thead>
<tr>
<th>Average</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 psi</td>
<td>1,000 psi</td>
</tr>
</tbody>
</table>

37. PROPOSED CORRECTIVE ACTION:
Explain any corrective action proposed for wells penetrating the injection formation or zone within the area of review:
There are no wells in the area of review.

38. PROPOSED CONTINGENCY PLAN:
Explain any contingency plans to cope with all well failures or shut-ins so as to prevent the migration of the containing fluids into underground sources of drinking water. These plans shall be submitted to the Division of Oil and Gas Resources Management. The plans shall include emergency response plans and a description of the methodology for response.

39. Map:
Each application for a permit for a solution mining project shall be accompanied by a map or maps showing and containing the following information:
A. The subject tract of land on which the proposed solution mining project is to be located;
B. The location and designation of all injection, withdrawal and monitoring wells on the tract or tracts to be utilized in the project established by an Ohio registered surveyor showing the distances in feet from the proposed well sites to the boundary lines on the subject tracts as well as measurements along permanent land subdivisions.

(continued on back page)
**Brief Description of the Powhatan Salt Company Business:**

Powhatan Salt Company LLC ("PSC") is in the business of subsurface solution mining salt in an effort to produce brine that will be exchanged with and used by the Westlake Chemical Corporation Eagle Natrium Chlor Alkali Plant ("Eagle Natrium"), an industrial manufacturing facility located in New Martinsville, West Virginia. PSC's proposed UIC Well #2 will be used for solution mining the Salina salt formation roughly 6,500 feet below ground, with produced brine transported to Eagle Natrium through a PSC permitted 10" pipeline (see the attached map with "Facilities Overview_Powhatan-to-Natrium").

**Supplemental 31: Fracture Gradient for Powhatan Salt Company Injection Zone:***

The hydraulic fracturing pressure for the Salina Formation at the Powhatan Salt Company facility was determined by in situ stress testing conducted in Core Hole 1 (API 34-111-2-4666-00-00). The testing was supervised by Golder and Associates and RESPEC. Based on reopening pressure, the lithostatic pressure was determined to be about 6,490 psi at a depth of about 5,470 feet. The hydraulic fracturing pressure was determined to be in the range of 9,090 to 9,640 psi.

**Supplemental 35: Plan for meeting the monitoring requirements of paragraph (b) of Rule 1501.9-7-06 of the Administrative Code:**

The injection fluid will be sampled and analyzed quarterly. Brine production and water injection quantities, flow rates and pressures will be recorded continuously in the control room. Brine will be sampled twice a day for specific gravity measurement. The daily brine samples will be consolidated for detailed chemical analysis on a monthly basis. The date, locations and name of the sample collector or analyst will be recorded. Records will be kept for a minimum of three years.

**Supplemental 36: QUALITATIVE ANALYSIS OR RANGES IN CONCENTRATIONS of injected fluids:**

Water from the Ohio River will be used in the solution mining process. The following qualitative analysis on the Ohio River water reflects the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClO3</td>
<td>0.2</td>
<td>GPL</td>
</tr>
<tr>
<td>Sulfate</td>
<td>5</td>
<td>GPL</td>
</tr>
<tr>
<td>Total Organic Carbon</td>
<td>10</td>
<td>ppm</td>
</tr>
<tr>
<td>Total Nitrogen</td>
<td>1</td>
<td>ppm</td>
</tr>
<tr>
<td>Iodine</td>
<td>&lt;1</td>
<td>ppm</td>
</tr>
<tr>
<td>Bromine</td>
<td>50</td>
<td>ppm</td>
</tr>
<tr>
<td>pH</td>
<td>6-8</td>
<td>ppm</td>
</tr>
<tr>
<td>TSS</td>
<td>100</td>
<td>ppm</td>
</tr>
<tr>
<td>Free Chlorine</td>
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<td>ppm</td>
</tr>
<tr>
<td>Al</td>
<td>&lt;1</td>
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<td>As</td>
<td>100</td>
<td>ppm</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>ppm</td>
</tr>
<tr>
<td>Ba</td>
<td>&lt;1</td>
<td>ppm</td>
</tr>
<tr>
<td>Fe</td>
<td>5</td>
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<td>Mn</td>
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<td>ppm</td>
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<tr>
<td>NaCl</td>
<td>290</td>
<td>GPL</td>
</tr>
</tbody>
</table>
**RECEIVED**

MAR 10 2020

Division of Oil and Gas Resources Management, 2054 Morse Road, Bldg. F-2, Columbus OH 43229-6693

**RESTORATION PLAN (Form 4)**

Ohio Department of Natural Resources

1. **DATE OF APPLICATION:**
   - [ ] Commercial
   - [ ] Industrial
   - [ ] Residential
   - [ ] Unreclaimed strip mine
   - [ ] Woodland

2. **OWNER NAME, ADDRESS, & TELEPHONE NO.:**
   - Providence Salt Company LLC
   - 26059 Woodward Place Blvd.
   - Greenwood Village, OH 44011
   - Phone: 720-316-9738

3. **API #:**

4. **WELL #:**

5. **LEASE NAME:**
   - Providence Salt Company LLC

6. **PROPERTY OWNER:**
   - Mountain View, LLC, Storage LLC

7. **COUNTY:**
   - Monroe

8. **CIVIL TOWNSHIP:**
   - Salem & Sand Creek

9. **SECTION:**
   - [ ] Oil
   - [ ] Gas
   - [ ] Other

10. **TYPE OF WELL:**
    - [ ] 0 to 2%
    - [ ] 8.1 to 10%
    - [ ] 10.1 to 24%
    - [ ] greater than 24%

11. **TEN LEAST SLOPE GRADIENT CROSSING SITE:**
    - [ ] Commercial
    - [ ] Industrial

12. **SLOPE GRADIENT & LENGTH DETERMINED FROM:**
    - [ ] Ground Measurement
    - [ ] U.S. Geological Survey Topographical Maps
    - [ ] Other: (explain)

13. **TYPE OF FALL VEGETAL COVER:**
    - [ ] Little or no vegetal cover
    - [ ] Short grasses
    - [ ] Tall weeds or short brush (1 to 2 ft)
    - [ ] Brush or bushes (2 to 8 ft)
    - [ ] Agricultural crops
    - [ ] Trees with sparse low brush
    - [ ] Trees with dense low brush

14. **SOIL & RESIDING MATERIAL AT WELLSITE:**
    - [ ] Stockpile and project spoilto be used when preparing seedbed
    - [ ] Use of soil additives (e.g., lime, fertilizer)
    - [ ] No seeding planned

15. **DISPOSAL PLAN FOR TREES AND TREE STUMPS:**
    - [ ] No trees disturbed
    - [ ] Harvest to landfill
    - [ ] Out into firewood
    - [ ] Bury with landowner’s approval
    - [ ] Mulch small trees and branches, erosion control
    - [ ] Use for wildlife habitat with landowner approval

16. **SURFACE AND SUBSURFACE DRAINAGE FACILITIES:**
    - [ ] No existing drainage facilities for removal of surface and/or subsurface water
    - [ ] The drainage system underlying land to be disturbed
    - [ ] Drain pipe(s) underlying land to be disturbed
    - [ ] Surface drainage facilities on land to be disturbed

17. **SLOPE GRADIENT & LENGTH DETERMINED FROM:**
    - [ ] 1 to 100 ft
    - [ ] 101 to 400 ft

18. **LENGTH OF STEEPEST SLOPE CROSSING SITE:**
    - [ ] 1 to 400 ft

19. **LENGTH OF STEEPEST SLOPE CROSSING SITE:**
    - [ ] Greater than 400 ft

20. **RESTORATION OF DRILLING PIT:**
    - [ ] Drainage fluids and solids
    - [ ] Use steel circulating tanks
    - [ ] Proposed alternative

21. **BACKFILLING AND GRADING AT SITE:**
    - [ ] Construct diversion channels to naturally established drainage systems
    - [ ] Construct terraces across slopes
    - [ ] Grade to approximate original contour
    - [ ] Grade to minimize erosion & control debris runoff

22. **VEGETATIVE COVER TO BE ESTABLISHED AT SITE:**
    - [ ] Seeding plan
    - [ ] Use of soil additives (e.g., lime, fertilizer)
    - [ ] No planting planned

23. **ADDITIONAL HOLES:**
    - [ ] Baffle, if used, will be plugged

24. **PROPOSED OR CURRENT LENGTH OF ACCESS ROAD:**
    - [ ] 100 ft or less
    - [ ] 101 to 500 ft
    - [ ] 501 to 1500 ft
    - [ ] Greater than 1500 ft

25. **CURRENT LAND USE OF PATH OF ACCESS ROAD:**
    - [ ] Commercial
    - [ ] Industrial

26. **RECEIVED**

MAR 10 2020

Division of Oil and Gas Resources Management, 2054 Morse Road, Bldg. F-2, Columbus OH 43229-6693

**RECEIVED**

MAR 10 2020

Division of Oil and Gas Resources Management, 2054 Morse Road, Bldg. F-2, Columbus OH 43229-6693

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    - [ ] greater than 24%

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    - [ ] Ground Measurement
    - [ ] U.S. Geological Survey Topographical Maps
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    - [ ] Drain pipe(s) underlying land to be disturbed
    - [ ] Surface drainage facilities on land to be disturbed

17. **SLOPE GRADIENT & LENGTH DETERMINED FROM:**
    - [ ] 1 to 100 ft
    - [ ] 101 to 400 ft

18. **LENGTH OF STEEPEST SLOPE CROSSING SITE:**
    - [ ] Greater than 400 ft

19. **LENGTH OF STEEPEST SLOPE CROSSING SITE:**
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    - [ ] 100 ft or less
    - [ ] 101 to 500 ft
    - [ ] 501 to 1500 ft
    - [ ] Greater than 1500 ft

25. **CURRENT LAND USE OF PATH OF ACCESS ROAD:**
    - [ ] Commercial
    - [ ] Industrial

26. **RECEIVED**

MAR 10 2020
<table>
<thead>
<tr>
<th>26. SURFACING MATERIAL FOR ACCESS ROAD:</th>
<th>29. STEEPEST SLOPE GRADIENT ON ACCESS ROAD:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Gravel</td>
<td>□ 0 to 5%</td>
</tr>
<tr>
<td>□ Slag</td>
<td>□ 6 to 10%</td>
</tr>
<tr>
<td>□ No surfacing material to be used</td>
<td>□ greater than 10%</td>
</tr>
<tr>
<td>□ Proposed alternative</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>27. PATH OF ACCESS ROAD TO BE DETERMINED BY:</th>
<th>30. APPROXIMATE LENGTH OF STEEPEST SLOPE ON ROAD:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Landowner</td>
<td>□ 0 to 100 ft.</td>
</tr>
<tr>
<td>□ Existing access road</td>
<td>□ 101 to 200 ft.</td>
</tr>
<tr>
<td>□ Contractor</td>
<td>□ 201 to 400 ft.</td>
</tr>
<tr>
<td>□ Operator</td>
<td>□ greater than 400 ft.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>28. GRADING AND EROSION CONTROL PRACTICE ON ROAD:</th>
<th>31. HAS LANDOWNER RECEIVED A COPY OF THIS RESTORATION PLAN?</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Diversion</td>
<td>□ Yes</td>
</tr>
<tr>
<td>□ Erosion</td>
<td>□ No</td>
</tr>
<tr>
<td>□ Open top culverts</td>
<td></td>
</tr>
<tr>
<td>□ Ditching of road</td>
<td></td>
</tr>
<tr>
<td>□ Pipe culverts</td>
<td></td>
</tr>
<tr>
<td>□ Proposed alternative</td>
<td></td>
</tr>
</tbody>
</table>

The undersigned hereby agrees to implement all restoration operations identified on this form, and conforms to all provisions of Section 1509.072 of the Ohio Revised Code, and to all Orders and rules issued by the Chief, Division of Oil and Gas Resources Management.

Signature of Owner/Authorized Agent

Name (Typed or Printed) David Hooker  Date 3-Mar-20

RESTORATION PLAN MUST BE SUBMITTED TO THE DIVISION IN DUPLICATE.
Memorandum for Proposed Wells Sites Without Affected Mines

TO: Patty Nicklaus, Administrative Professional 3, Division of Oil and Gas Resources Management, Permitting Section

FROM: The Division of Mineral Resources Management, designated Affected Mine Review Committee (Howard Dyer, Brent Heavlin, Michael Kosek, Chris Freidhof, and Cassie Byelene)

Date: March 10, 2020

RE: Review of Oil and Gas Well Application: APATT034713

We have reviewed the aforementioned Oil and Gas Well permit application and find there are NO affected mines in the area referred to on the proposed well site map enclosed with the permit application.

Therefore, pursuant to 1509.08 of the Ohio Revised Code (ORC), we are recommending approval of the oil and gas permit for application number APATT034713.

C: Permit file