



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
Geologic Resources Management Division

**Environmental Impact Assessment
Mineral Wells and Surface Facilities**

By authority of Part 625 of Act 451 PA 1994, as amended. Attach additional pages as necessary.
To be submitted with an application for a well permit pursuant to Part 625 or prior to construction of
associated surface facility located more than 300 feet from the proposed well.

Environmental Impact Assessment (EIA) is for:

- Well and surface facility. Complete all Parts.
- Well only. Complete Parts A, B, D, E, F, G, H, and I.
- Surface facility only. Complete Parts A1, A2, C, D, E, F, G, H, and I.

A. Project Description

1. Applicant: _____

2. Well name and number: _____

3. Well type:

- Artificial brine production well
- Natural brine production well
- Processed brine disposal well
- Single-source, non-commercial, waste disposal well
- Multi-source commercial non-hazardous waste disposal well
- Multi-source commercial hazardous waste disposal well
- Storage well
- Test well greater than 250' deep or penetrating below deepest freshwater aquifer
- Blanket test well(s) Number of proposed wells:_____ Anticipated maximum depth:_____

4. This well is a replacement for an existing well. If checked, complete the following information.

Existing well name and number: _____

Current owner: _____

Existing well type and status: _____

Existing well location: _____

Reason for replacement: _____

Disposition of existing well: _____

5. This well is a reentry of an existing well. If checked, complete the following information.

Existing well name and number: _____

Current owner: _____

Existing well type and status: _____

Reason for reentry: _____

6. This well is expected to encounter hydrogen sulfide (H₂S). If checked, list formations expected to contain H₂S and anticipated depths to tops of formations.

7. This well is expected to encounter oil or gas. If checked, list formations expected to contain oil or gas and anticipated depths to tops of formations.

8. This well will be drilled from an existing drill pad. If checked, list the well name, number, permit number, and status of all existing wells on the drill pad (if no wells, write "none").

Show proposed/existing well(s) on attached scale map, identified as applying to Part A of the EIA.

B. Drill Site

1. Drill site access route dimensions: _____ feet x _____ feet
 Description of topography, drainage, soil type(s), direction and percentage of slopes, land cover, and present use for the access route. Show route on accompanying scale map labeled Part B1.

2. Drill site dimensions: _____ feet x _____ feet
 Description of topography, drainage, soil type(s), direction and percentage of slopes, land cover, and present use for the drill site. Show well site on accompanying scale map labeled Part B2.

NOTE: If any boxes for items B3, B4, B5, B6, B7, or B8 are checked, the corresponding feature(s) must be identified on an accompanying scale map as applying to Part B of the EIA.

3. Drain tiles are present on the drill site. Describe how they will be handled if encountered:

4. The following are located within 600 feet of the proposed wellhead:

<input type="checkbox"/> Buildings	<input type="checkbox"/> Domestic fresh water wells	<input type="checkbox"/> Public roads
<input type="checkbox"/> Railroads	<input type="checkbox"/> Power lines	<input type="checkbox"/> Pipelines
<input type="checkbox"/> Other man-made features (list individual features)		

5. The following are located within 800 feet of the proposed wellhead:

<input type="checkbox"/> Type IIb public water wells	<input type="checkbox"/> Type III public water wells
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6. The following are located within 1320 feet of the proposed wellhead:
- Surface waters and other environmentally sensitive areas
 - Floodplains associated with surface waters
 - Wetlands, as identified by sections 30301 to 30323 of the Act
 - Natural rivers, as identified by sections 30501 to 30515 of the Act
 - Threatened or endangered species as identified by sections 36501 to 36507 of the Act
7. The following are located within 2000 feet of the proposed wellhead:
- Type I public water wells
 - Type IIa public water wells
8. Great Lakes shorelines are located within 1500 feet of the proposed wellhead.
9. Will fresh water be used to drill this well?
- Yes. The water will be supplied from:
 - A "permanent" water well, to be retained after final completion OR used for drinking water (to be drilled and installed pursuant to Part 127 of 1979 PA 368, as amended)
 - A "temporary" water well, to be plugged upon final completion and not used for drinking water
 - Other source (identify): _____
 - No. Drilling fluid to be used: _____
10. Drilling fluid pit and drill cuttings, muds, and fluids
- Anticipated depth to groundwater: _____ Depth determined by: _____
- Pit type: On site in-ground pit. Anticipated dimensions: L _____ W _____ D _____
 Show the proposed pit location on accompanying scale map labeled Part B10.
- Remote in-ground pit. Anticipated dimensions: L _____ W _____ D _____
 Attach landowner approval. Show pit location on accompanying map labeled Part B10.
- On site steel tanks with no in-ground pits (complete 10a and 10d, not 10b and 10c).
- a. Will the well be drilled into or through bedded salt deposits? Yes No
 If yes, will the drill cuttings contain solid salt? Yes No
 If yes, describe plans for handling and disposing of drill cuttings:
- b. Will the drilling fluid pit contents be solidified after drilling? Yes No
 If yes, identify the pit solidification contractor and pit solidification method:
- c. Will the drilling fluid pit contents be removed after drilling? Yes No
 If yes, identify the site for disposal of the moved material:
- d. Will any pit fluid be disposed of by a licensed liquid waste hauler? Yes No
 If yes, identify the waste hauler:
- If none of these methods apply, describe disposal plans for pit fluids:

C. Surface Facility

1. Will the well(s) have an associated surface facility?

No. Do not complete Part C.

Yes. Does a surface facility currently exist?

Yes. Show facility location relative to the wellhead on a scale map labeled as Part C1.

Do not complete the remainder of Part C.

No. Has a location for the surface facility been chosen?

Yes. Complete Parts C2 through C10.

No. At least 60 days prior to beginning construction, submit an EIA for the surface facility (EQP7500-3, this form), a facility plan, and a Soil Erosion and Sedimentation Control Plan (EQP7200-18) to the Geologic Resources Management Division (GRMD).

2. Is the proposed surface facility site more than 300 feet from the wellhead?

Yes. Complete Parts C3 through C10 and submit a map showing the location of the surface facility site relative to the wellhead.

No. Do not complete the remainder of Part C.

3. Surface facility access route dimensions: _____ feet x _____ feet

Description of topography, drainage, soil type(s), direction and percentage of slopes, land cover, and present land use:

4. Surface facility site dimensions: _____ feet x _____ feet

Description of topography, drainage, soil type(s), direction and percentage of slopes, land cover, and present land use:

NOTE: If any boxes for items C5, C6, C7, C8, C9, or C10 are checked, the corresponding feature(s) must be identified on an accompanying scale map as applying to Part C of the EIA.

5. Drain tiles are present on the proposed site. Describe how they will be handled if encountered:

6. The following are located within 600 feet of the proposed surface facility site:

Buildings Domestic fresh water wells Public roads

Railroads Power lines Pipelines

Other man-made features (list individual features)

7. The following are located within 800 feet of the proposed surface facility site:

Type IIb public water wells Type III public water wells

8. The following are located within 1320 feet of the proposed surface facility site:
- Surface waters and other environmentally sensitive areas
 - Floodplains associated with surface waters
 - Wetlands, as identified by sections 30301 to 30323 of the Act
 - Natural rivers, as identified by sections 30501 to 30515 of the Act
 - Threatened or endangered species as identified by sections 36501 to 36507 of the Act
9. The following are located within 2000 feet of the proposed surface facility site:
- Type I public water wells
 - Type IIa public water wells
10. Great Lakes shorelines are located within 1500 feet of the proposed surface facility site.

D. Flow Line

Will the well(s) have an associated flow line?

- No. Do not complete Part D.
- Yes. Flow line route dimensions: _____ feet x _____ feet

Show flow line route from well to the surface facility, junction with an existing flow line or gathering system, on a scale map labeled Part D.

Anticipated maximum operating pressure: _____ psig

Describe the leak detection program, including schedules of periodic pressure testing and periodic flow line patrols:

Flow line material: _____

Description of topography, drainage, soil type(s), direction and percentage of slopes, land cover, and present land use along the flow line route.

Will the flow line be buried?

- Yes. Burial depth: _____ feet

Describe flow line route marking scheme:

- No. Describe measures to protect the flow line from vehicular damage:

E. Mitigation of Impacts from Drilling and/or Production

Detail additional measures to be taken to protect environmental and/or land use values:

F. Additional Permits

Identify additional permits to be sought:

G. Soil Erosion and Sedimentation Plan

Attach a Soil Erosion and Sedimentation Plan (Form EQP7200-18) which addresses each well site, surface facility, and flow line route identified in this application. Refer to requirements under Part 91, 1994 PA 451, as amended.

H. Contractual Rights and Alternate Locations

Has applicant obtained all the legal and contractual rights needed to locate the well, wellbore, and facility where it is proposed?

- Yes
- No. What additional approvals are needed?

Were alternate surface locations considered for this facility?

- No, alternate sites did not seem necessary or more desirable
- Yes, the following locations were considered:

Why were they rejected in favor of the proposed location?

I. Certification

As a representative of the applicant, I am authorized to prepare this form and certify that the facts stated herein are true, accurate, and complete to the best of my knowledge.

Name: _____ Signature: _____

Email Address: _____ Date: _____

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