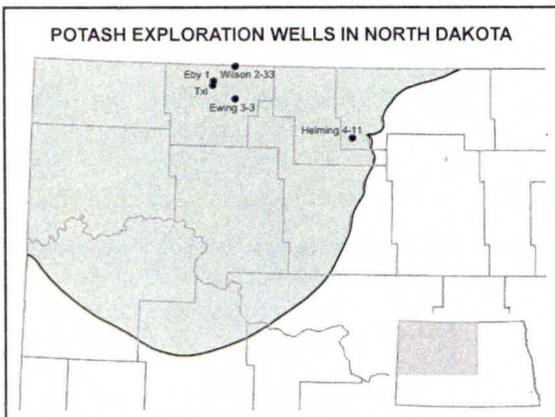
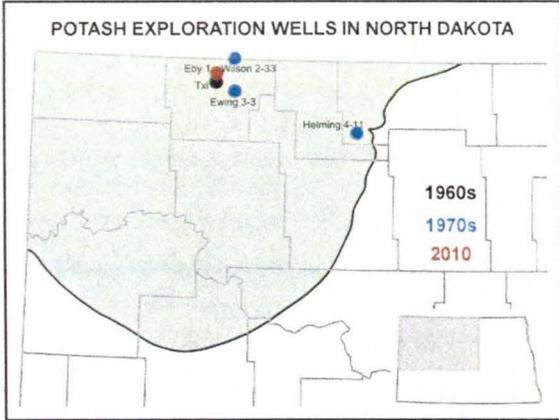


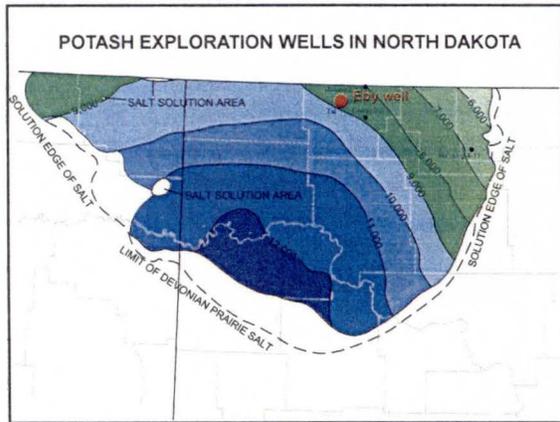
POTASH

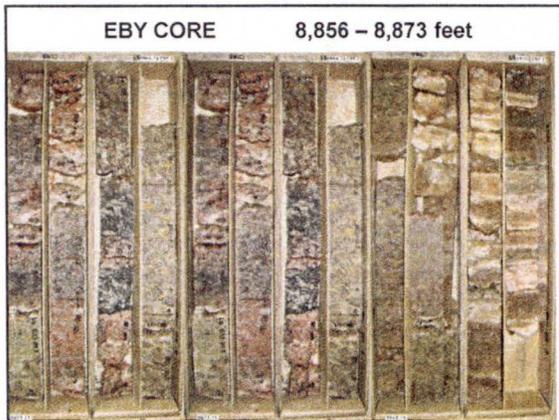
- Potash is the common name for various mined and manufactured salts that contain potassium in water-soluble form.
- Sylvite KCl
- Sylvinite mixture of KCl and NaCl
- Carnallite $\text{KMgCl}_3 \cdot 6(\text{H}_2\text{O})$

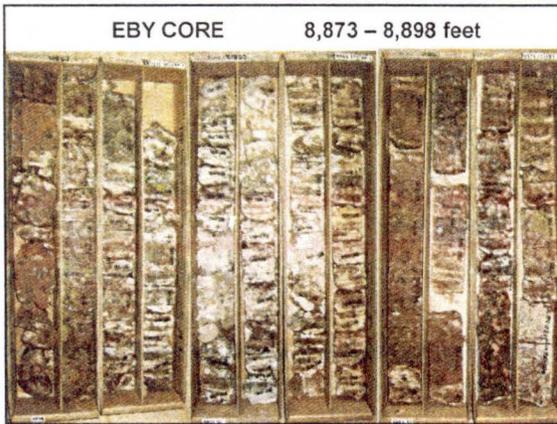
• Potash is used agriculturally for fertilizer and feed, and industrially for computer screens, water softeners, soaps and de-icers.

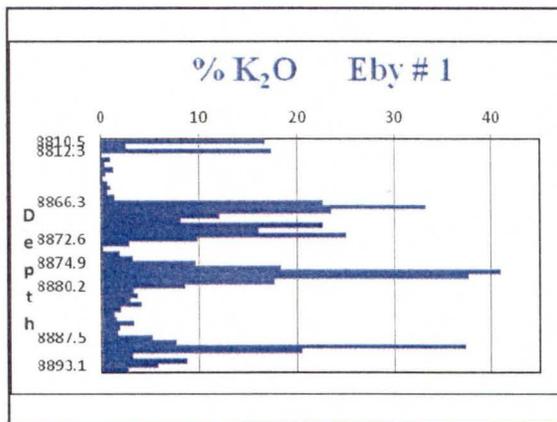


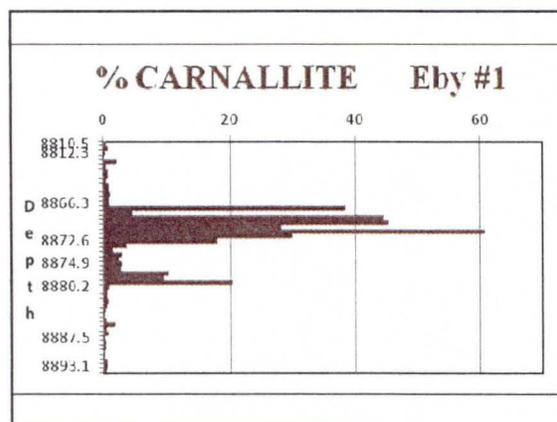


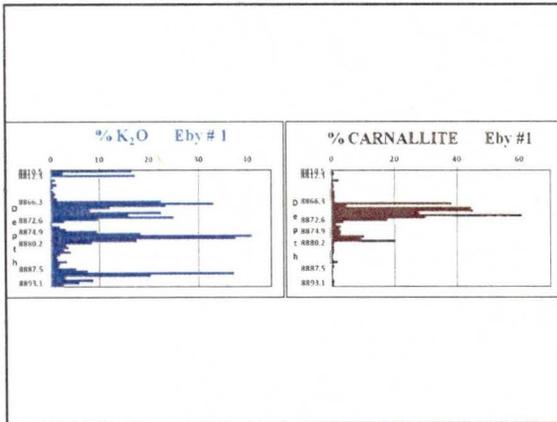


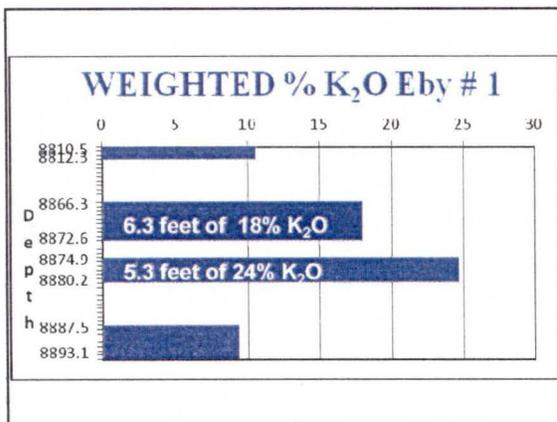


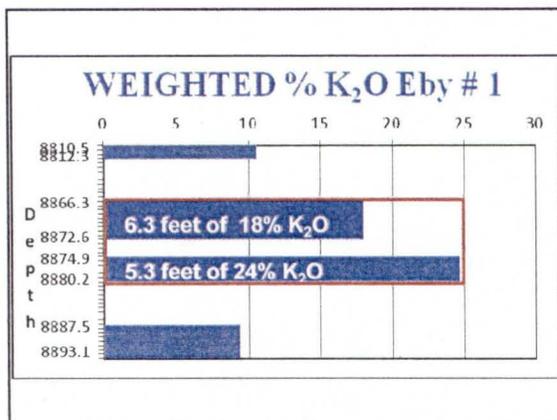


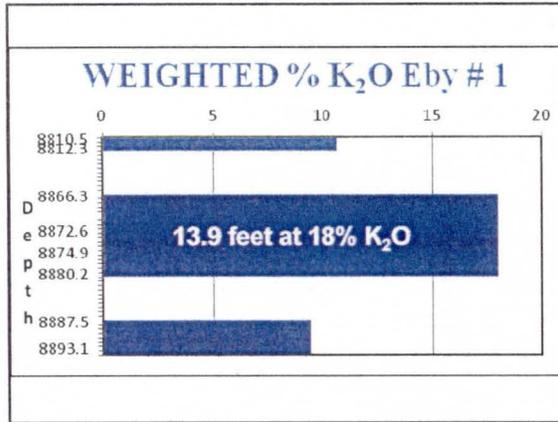


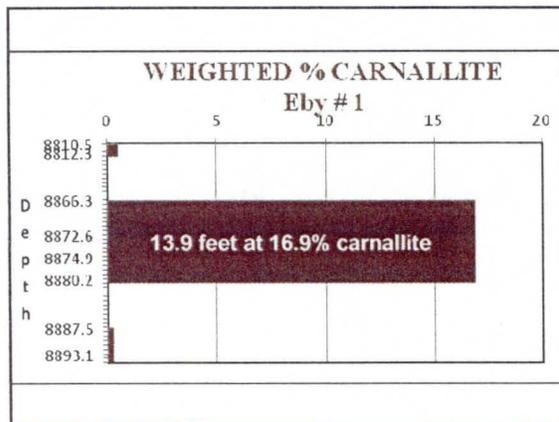


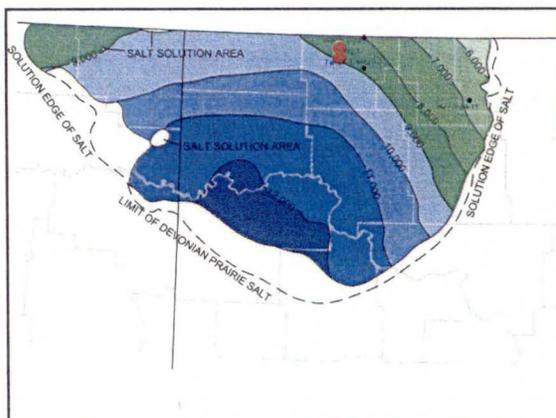


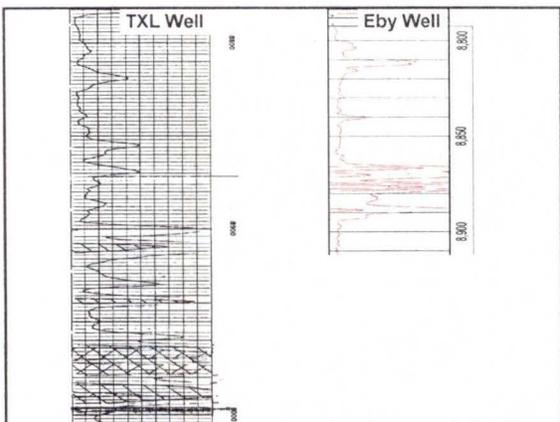


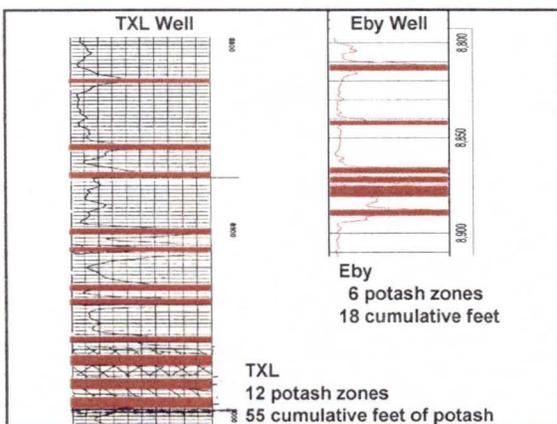


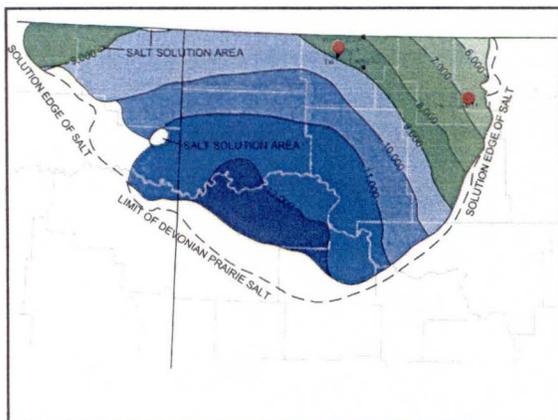


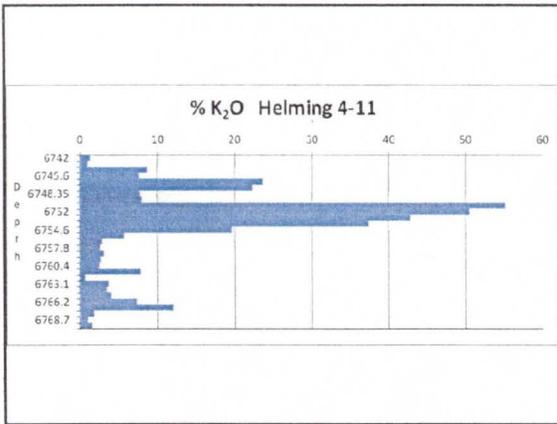


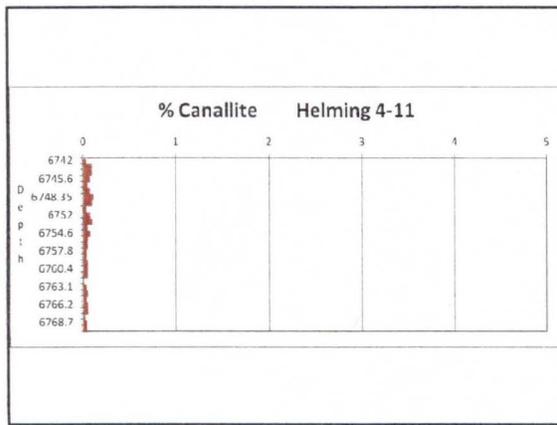


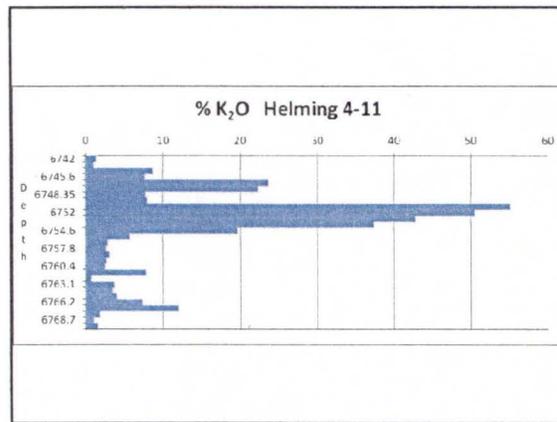


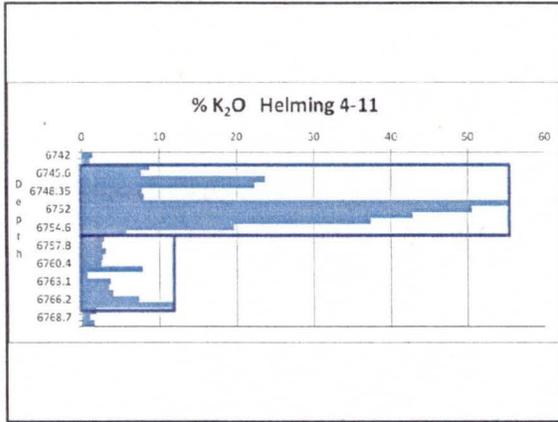


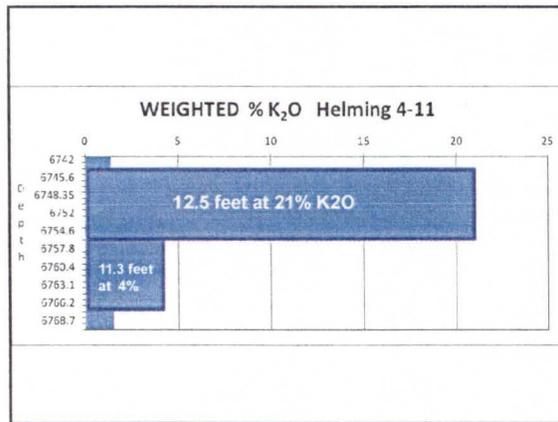


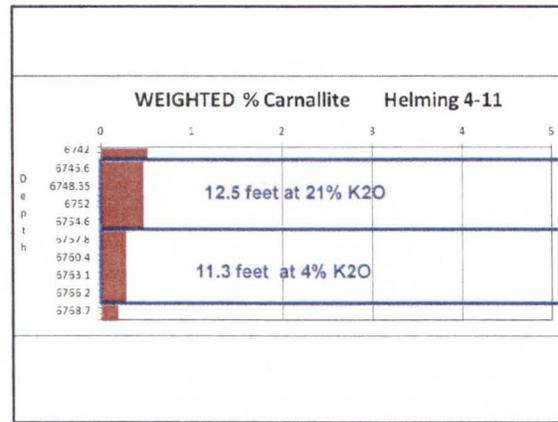


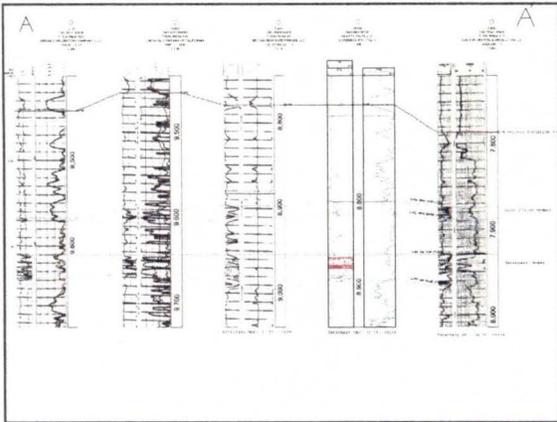


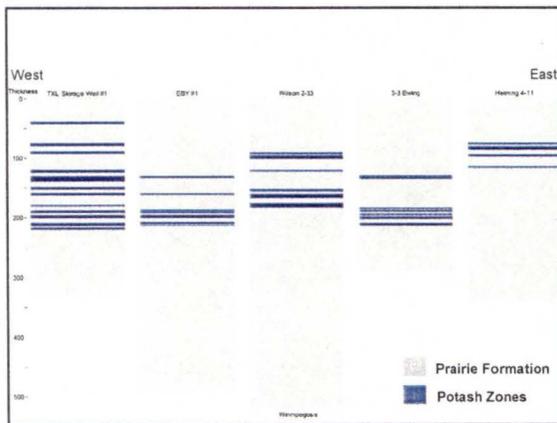












WHAT DID WE LEARN FROM THE EBY WELL?

- The percentage of carnallite is variable across northwestern North Dakota and can be relatively high.
- The thickness and character of the potash zones can change quickly over a relatively short area.
- For the first time, we now have a good set of logs, a core, and detailed core analyses all from the same well.

Subsurface Mineral Program



SUBSURFACE MINERAL RULES

NDAC 43-02-02

- Current rules are 17 pages long.
- This chapter covers:
 - **Shallow testhole exploration.**
 - **Deep well exploration.**
 - **Solution mining** (uranium solution mining in NDAC 43-02-02.2, 58 pages and underground injection control program class III in NDAC 43-02-02.1, 9 pages).
 - **Surface mining**
- Current draft is 90 pages long.

TIMETABLE FOR ADOPTING SUBSURFACE MINERAL RULES – YEAR 2012

- **2012**
- **Oct 1:** Receive comments back from Health Dept, Public Service Commission, and Assistant Attorney General Hope Hogan.
- **Oct 23:** IC meeting—received approval to proceed with proposed rules
- **Oct 24:** Send legal ad to North Dakota Newspaper Association for rules notice (Notices to be published between Oct 29-Nov 4.
- **Oct 25:** File full notice + rules w/Leg Council (LC) via hand-delivery—LC to send out proposed rules notice to interested parties w/in 15 business days after receiving them
- **Oct 26:** Write (before 1st published date) reg analysis f/rules impacting industry > \$50,000 (in 1yr)
- **Oct 29:** All papers (10 daily + 42 weekly) to publish proposed rules notice Oct 29 – Nov 4 (Hearing must be no sooner than 20 days from the date of last publication)
- **Nov 26:** 9am Rules hearing @ OGD Conference Room (Case _____)
Ten-day comment period starts (to receive input on proposed rules)
- **Dec 4:** End of ten-day comment period.

- Dec 20: Complete written responses to all comments rec'd (oral-hearing + written comments).
- Dec 21: Write small entity regulatory analysis and small entity impact statement.
- Dec 30: Submit final rules to Attorney General (AG) for an opinion including:
 1. rules anticipated to be approved by ICO # _____
 2. letter to LC indicating full notice & proposed rules were sent to them
 3. full and abbreviated rules notice
 4. documentation of sponsor notification
 5. proof of publication
 6. each comment and written record of the consideration of all comments
 7. reg analysis (w/date available) impacting regulated community > \$50,000
 8. small entity regulatory analysis
 9. small entity impact statement
 10. takings assessment
 11. billing code
- **2013**
- Jan 17: IC approve rules w/ICO # _____ (Case _____); Prepared Aff of mailing to all parties
(Note: Submit ICO # _____ to Attorney General to supplement info sent Dec 30, 2012)
- Jan 31: Receive back opinion from AG's office.

- Jan 31: File rules w/LC, along w/copy of AG's opinion
(Rules filed w/LC b/n Aug 2-Nov 1 become effective Jan 1, 2012.)
(Rules filed w/LC b/n Nov 2-Feb 1 become effective Apr 1, 2012.)
(Rules filed w/LC b/n Feb 2-May 1 become effective Jul 1, 2012.)
(Rules filed w/LC b/n May 2-Aug 1 become effective Oct 1, 2012.)
- Feb 10: Notified all interested parties (+ post on web) of Adm Rules Comm hearing on 3-14-2012
- Feb 10-15: Administrative Rules Committee Hearing (Notified all interested parties 2-10-2012)
- Apr 1: Final rules adopted—NDCC 28-32-07: must file w/Leg Council 9 mths of statute change
