DeweyBurdPubEm Resource

From: Cohen, Stephen
Sent: Tuesday, September 07, 2010 2:47 PM
To: DeweyBurdHrgFile Resource
Attachments: Burdock Quad Plate2.pdf

Stephen J. Cohen
Team Leader - New Facility Licensing
Office of Federal and State Materials
and Environmental Management Programs
U.S. Nuclear Regulatory Commission
Mailstop T8F5
Washington, DC 20555
301-415-7182
410-206-8717 (cell)
stephen.cohen@nrc.gov

Hearing Identifier: Powertech_Uranium_Dewey_Burdock_LA_Public
Email Number: 137

Mail Envelope Properties (377CB97DD54F0F4FAAC7E9FD88BCA6D024CF82662E)

Subject:
Sent Date: 9/7/2010 2:47:07 PM
Received Date: 9/7/2010 2:51:40 PM
From: Cohen, Stephen

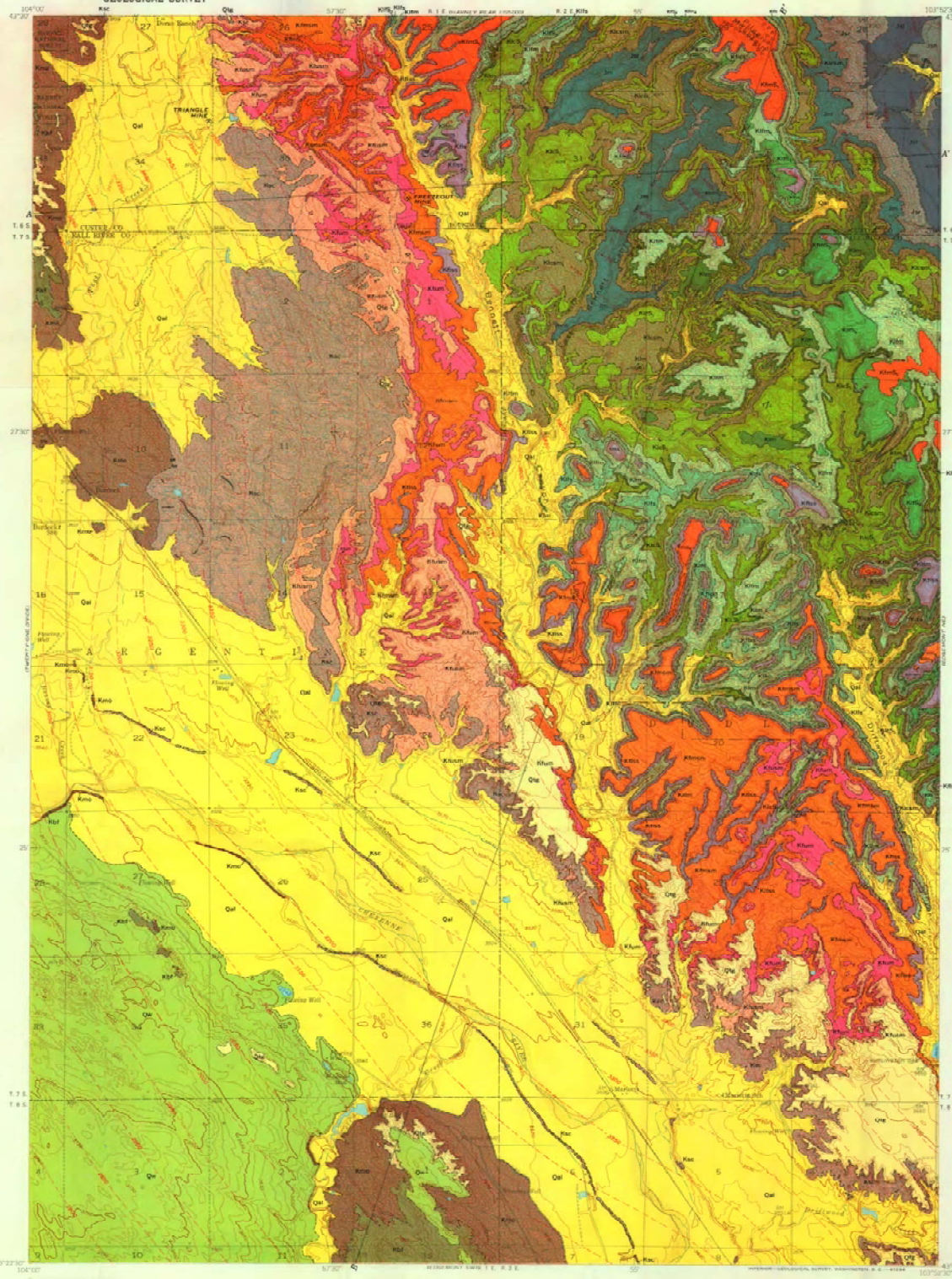
Created By: Stephen.Cohen@nrc.gov

Recipients:
"DeweyBurdHrgFile Resource" <DeweyBurdHrgFile.Resource@nrc.gov>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	302	9/7/2010 2:51:40 PM
Burdock Quad Plate2.pdf	2484070	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:



Base map by Topographic Division
U. S. Geological Survey, 1960

Geology by R. W. Schnabel and
L. J. Charlesworth, Jr., 1955–56

EXPLANATION

QUATERNARY

- Qal — Alluvium
- Qw — Alluvium *Superficially modified by wind*
- Qtg — Terrace gravel

CRETACEOUS

Upper Cretaceous

- Kbf — Belle Fourche shale
- Kmo — Mowry shale
- Ksc — Skull Creek shale

Lower Cretaceous — Inyan Kara group

- Kfuun, Kfum, Kfmun, Kfms, Kfus, Kfs — Fall River formation

Upper unit:
Kfuun, interbedded sandstone and mudstone.
Kfum, mudstone.
Middle unit:
Kfmun, interbedded sandstone and mudstone.
Kfms, prominent channel sandstones.
Lower unit:
Kfus, interbedded sandstone and siltstone.
Kfs, channel sandstone

- Klm, Kls, Klm, Klm, Kls, Klm, Kls, Klm — Lakota formation

Fuson member:
Klm, mudstone part of channel fill.
Kls, a prominent channel sandstone.
Klm, mudstone.
Kls, sandstone.
Kls, edge of a channel sandstone prominent elsewhere in the southern Black Hills.
Minnewaste limestone member, Klm.
Chilson member (Kls, on sections only):
Kls, prominent fluvial sandstones.
Klcm, interbedded sandstone and mudstone associated with Kls.

JURASSIC

Upper Jurassic

- Jm — Morrison formation
- Jsr, Jsl, Jsh, Jssh — Sundance formation

Jsr, *Redwater shale member.*
Jsl, *Lak member.*
Jsh, *Hulett sandstone member.*
Jssh, *Stockade Beaver shale member*

Contact
Dashed where approximately located

Indefinite or inferred contact

Fault
U, upthrown side; D, downthrown side

Area of silica cement

Sandstone dikes

Uranium mine

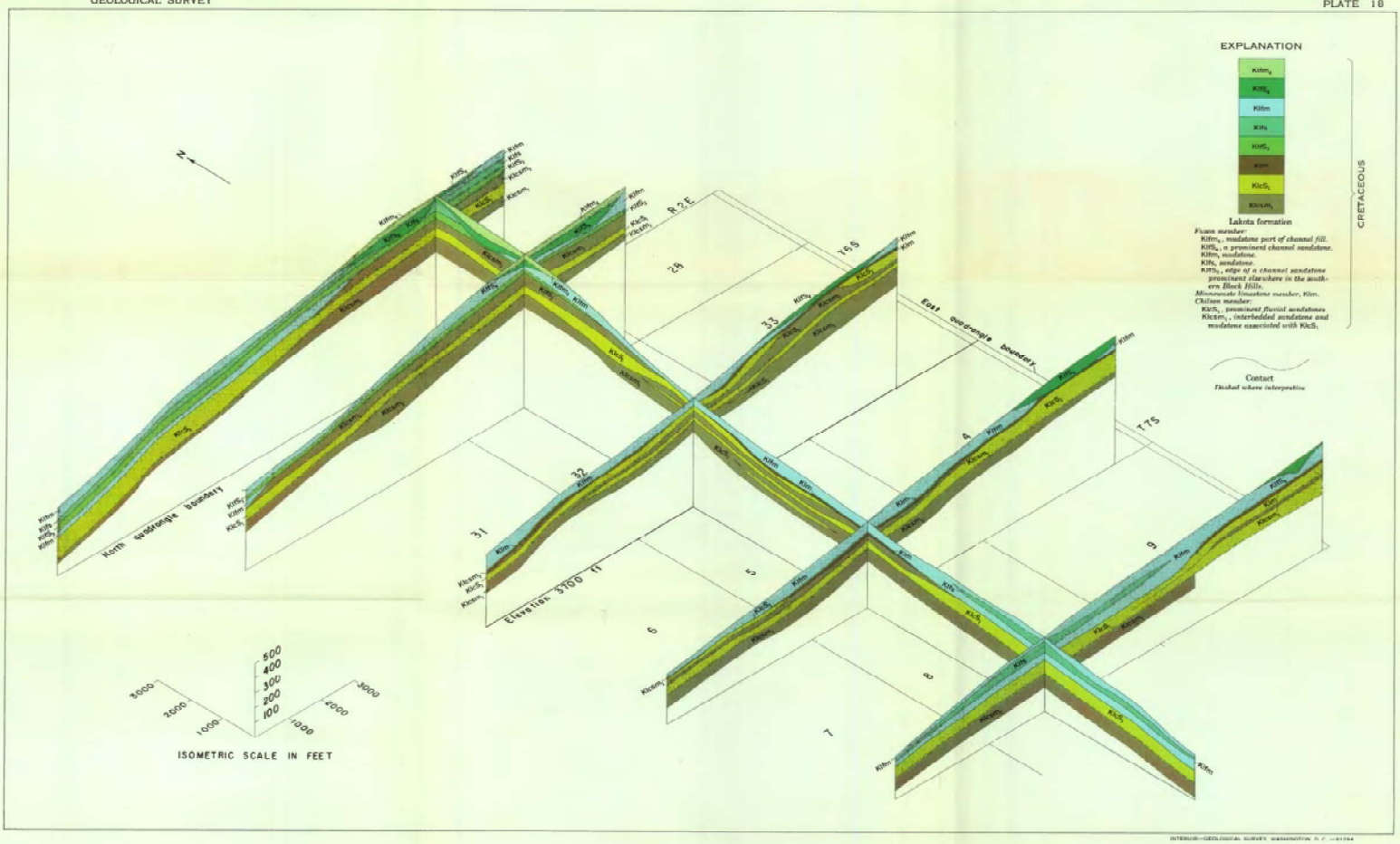
Uranium prospect

Structure contour
Drawn on base of Fall River formation. Dashed where approximately located, short dashed where projected above the surface. Contour interval is 50 feet

GEOLOGIC MAP AND SECTIONS, BURDOCK QUADRANGLE, FALL RIVER AND CUSTER COUNTIES, SOUTH DAKOTA

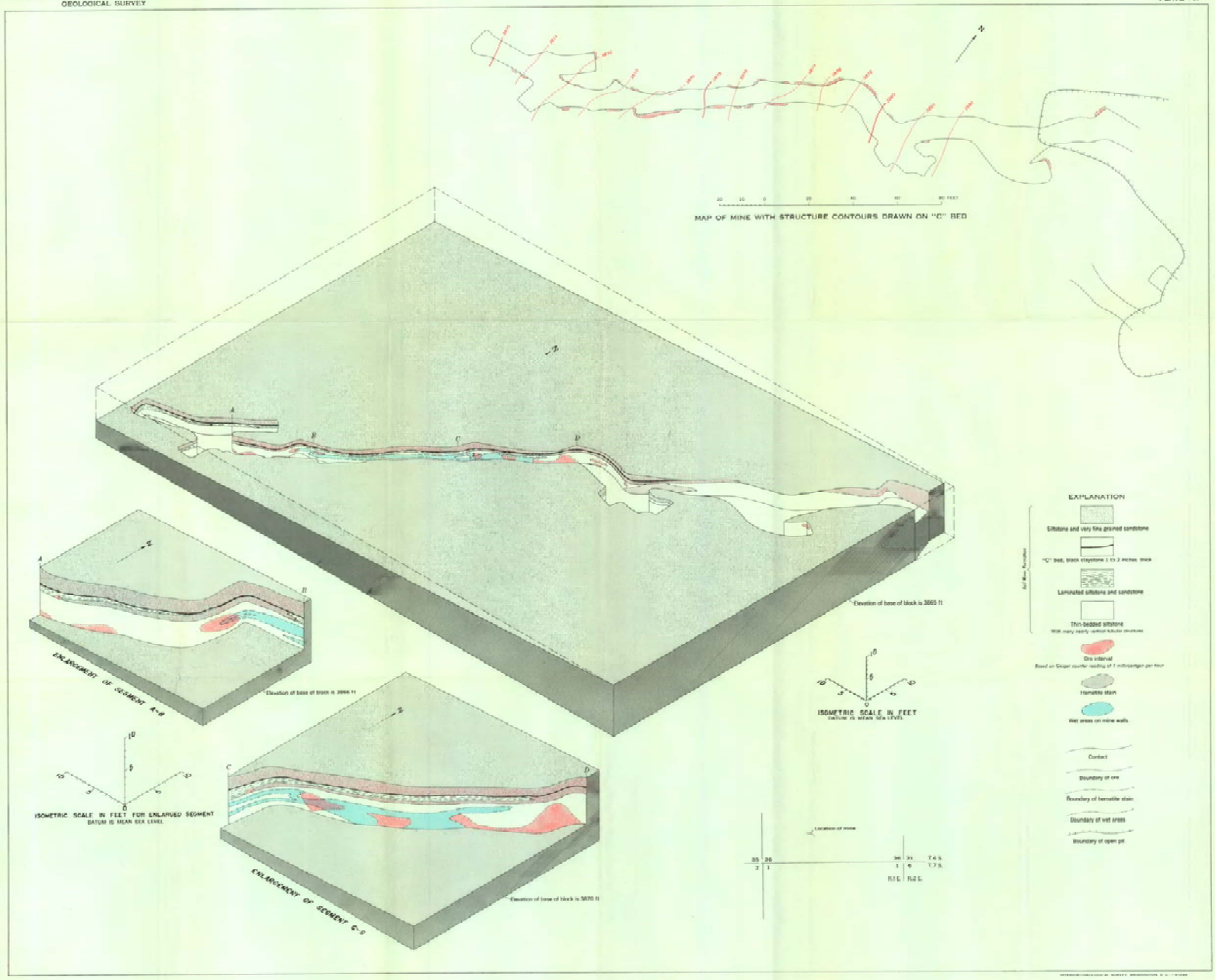
SCALE 1:24 000

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL



FENCE DIAGRAM SHOWING AN INTERPRETATION OF DISTRIBUTION OF ROCK TYPES IN THE LAKOTA FORMATION
BURDOCK QUADRANGLE, FALL RIVER AND CUSTER COUNTIES, SOUTH DAKOTA

Geology by R. W. Schnabel



ISOMETRIC PROJECTION OF THE FREEZEOUT MINE, SEC. 36, T. 6 S., R. 1 E., CUSTER COUNTY, SOUTH DAKOTA

Geology by R. W. Schnabel and F. R. Shawe 1956