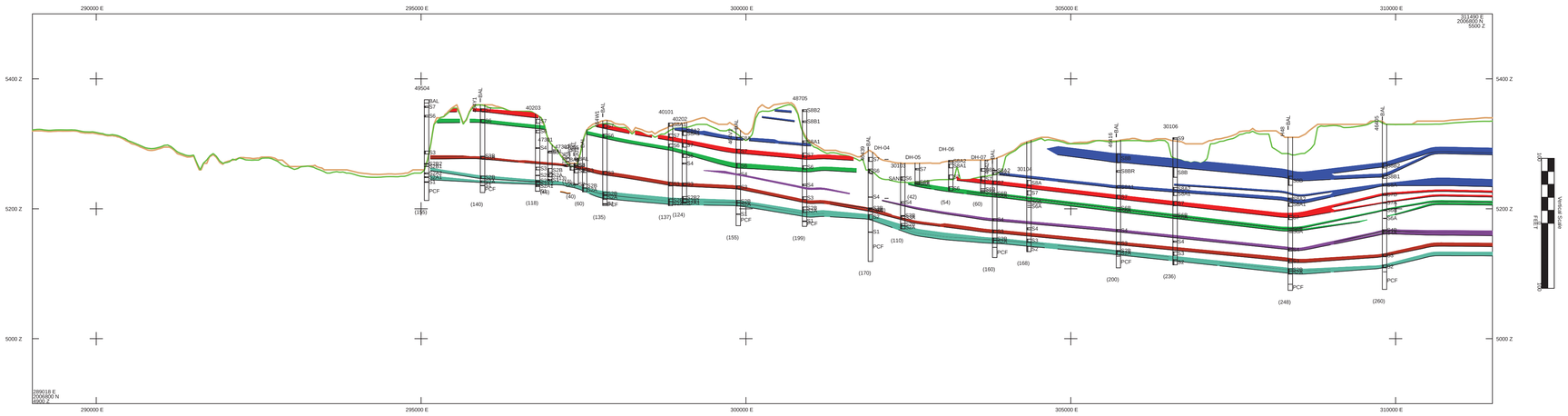


Area 4 North - Section A

Section 2,006,800 North

Looking North

Horizontal Scale
1000 0 1000
FEET

LEGEND

- Topography
- 575-13 (5629) — Drillhole # (Collar Elevation)
- Depth of Weathering
- (210) — Drillhole Trace (Total Depth of Drillhole)

Generalized Stratigraphic Column

OVERBURDEN

Seam 8

SEAM 7 INTERBURDEN

Seam 7

SEAM 6 INTERBURDEN

Seam 6

SEAM 4 INTERBURDEN

Seam 4

SEAM 3 INTERBURDEN

Seam 3

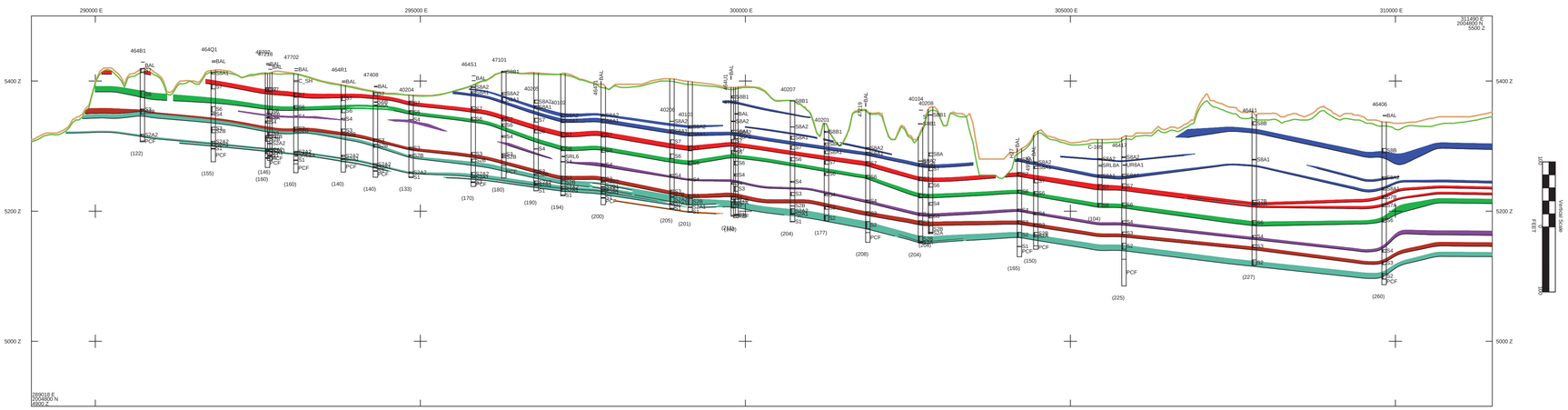
SEAM 2 INTERBURDEN

Seam 2

SEAM 1 INTERBURDEN

Seam 1

Pictured Cliffs Sandstone (PCF)

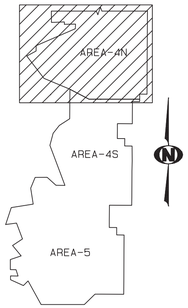


Area 4 North - Section B

Section 2,004,800 North

Looking North

Horizontal Scale
1000 0 1000
FEET



REV. No.	DATE	DRAFT. BY	REVISION DESCRIPTION	ENG.	E.O.	P.E.
14-A	MAY 2014	JM	REVISED TITLE BLOCK	JM	KA	KB
12-A	FEB 2012	JM	PREPARED FOR SUBMITTAL TO OSM	JM	KA	KB

APPROVALS

CERTIFICATION STATEMENT

I, Kevin A. Bahe, hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

KEVIN A. BAHE
NEW MEXICO
17850
PROFESSIONAL ENGINEER

Digitally signed by Bahe, Kevin KA
Reason: I attest to the accuracy and integrity of this document
Date: 2014.05.19 14:03:28 -06'00'

EXHIBIT 17.1-3

NTEC

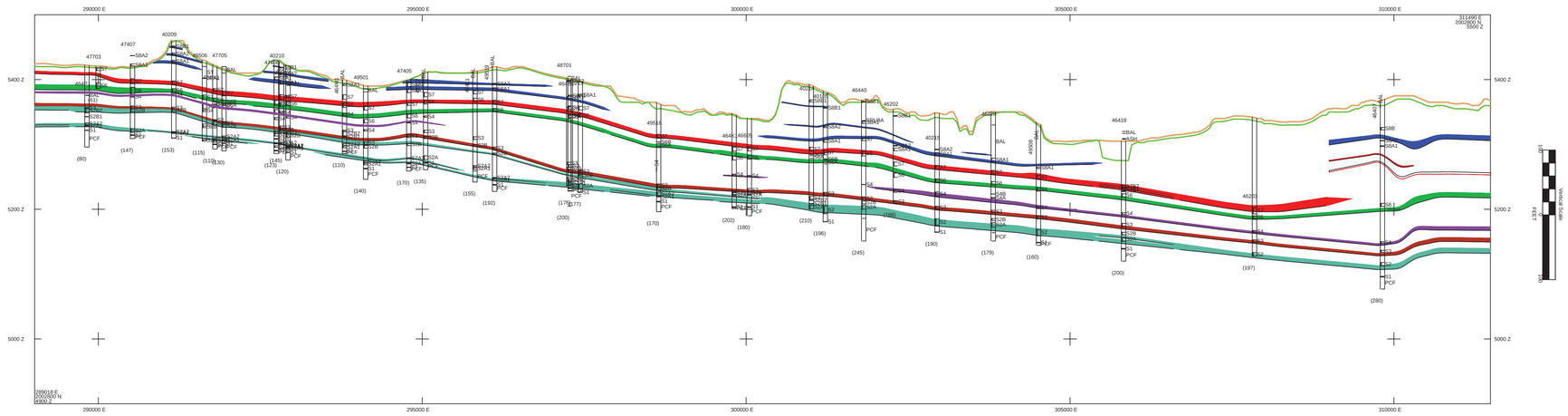
Navajo Transitional Energy Company, LLC

Navajo Mine

P.O. Box 1717
Fruitland,New Mexico,87416
Phone: 505-598-4200
Fax: 505-568-3367

AREA 4 NORTH
EAST - WEST GEOLOGIC
CROSS-SECTIONS A - B

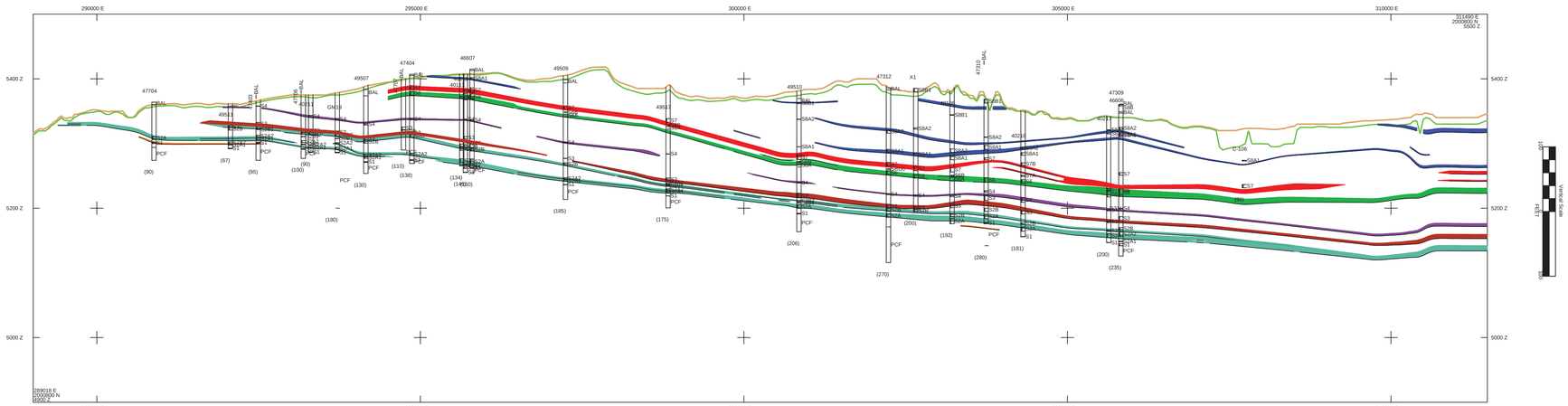
PREPARED BY JM	DRAWN BY MO	SCALE AS SHOWN
APPROVED BY CKA	DATE 3/3/2012	(SHEET 1 OF 3)



Area 4 North - Section C

Section 2,000,800 North

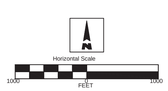
Looking North



Area 4 North - Section D

Section 2,000,800 North

Looking North



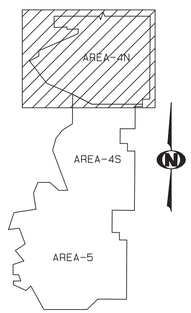
LEGEND

- Topography
- 575-13 (5625) — Drillhole # (Collar Elevation)
- Depth of Weathering
- (210) — Drillhole Trace (Total Depth of Drillhole)

Generalized Stratigraphic Column

OVERBURDEN

- Seam 8
- SEAM 7 INTERBURDEN
- Seam 7
- SEAM 6 INTERBURDEN
- Seam 6
- SEAM 4 INTERBURDEN
- Seam 4
- SEAM 3 INTERBURDEN
- Seam 3
- SEAM 2 INTERBURDEN
- Seam 2
- SEAM 1 INTERBURDEN
- Seam 1
- Pictured Cliffs Sandstone (PCF)



REV No.	DATE	DRAFT BY	REVISION DESCRIPTION	ENG.	E.G.	P.E.
14-A	MAY 2014	MO	REVISED TITLE BLOCK	JM	KA	KB
12-A	MAR 2012	MO	PREPARED FOR SUBMITTAL TO OSM	JM	KA	KB

APPROVALS

CERTIFICATION STATEMENT

I, Kevin A. Bahe, hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

KEVIN A. BAHE — NEW MEXICO — 17850 — PROFESSIONAL ENGINEER

Digitally signed by Bahe, Kevin KA
Reason: I attest to the accuracy and integrity of this document
Date: 2014.05.19 14:04:26 -06'00'

EXHIBIT 17.1-3

NTEC

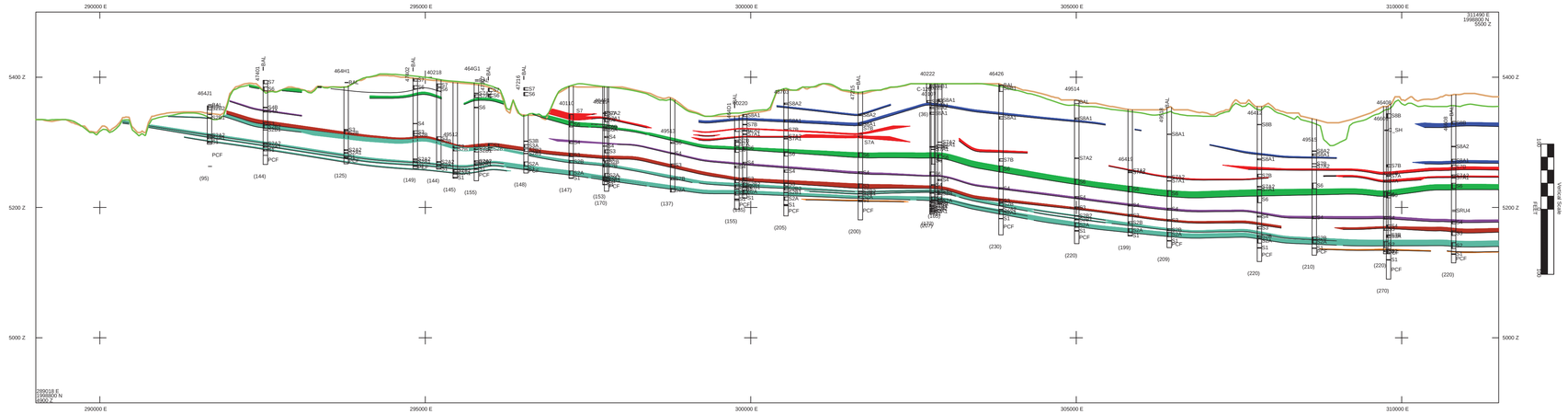
Navajo Transitional Energy Company, LLC

Navajo Mine

P.O. Box 1717
Fruitland,New Mexico,87416
Phone: 505-598-4200
Fax: 505-568-3361

AREA 4 NORTH
EAST - WEST GEOLOGIC
CROSS-SECTIONS C - D

PREPARED BY JM	DRAWN BY MO	SCALE AS SHOWN
APPROVED BY CKA	DATE 3/3/2012	(SHEET 2 OF 3)



Area 4 North - Section E

Section 1,998,800 North

Looking North

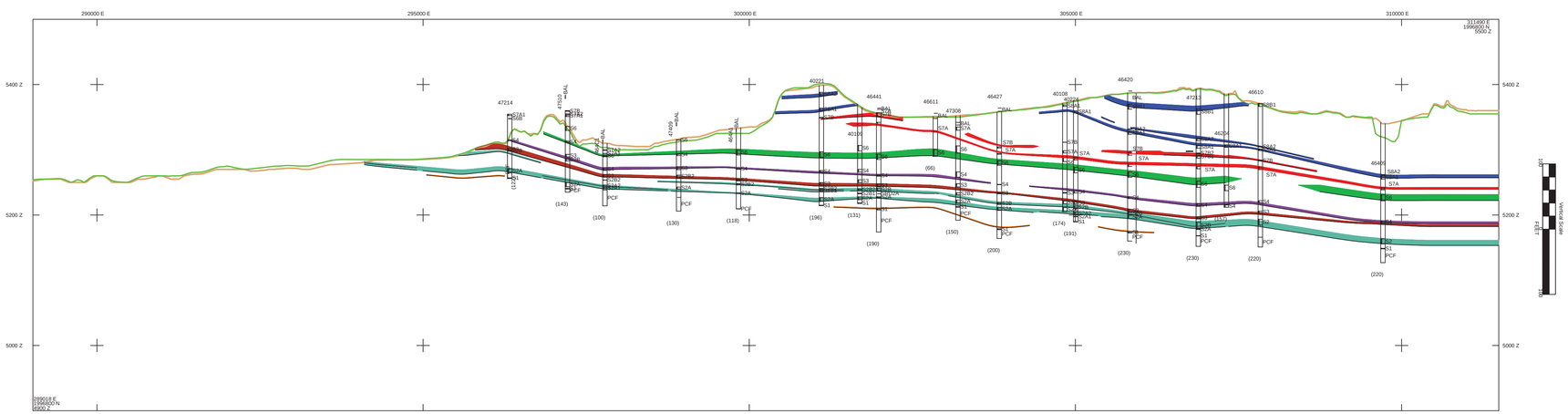
Horizontal Scale
1000 0 1000
FEET

LEGEND

- Topography
- 575-13 (5629) — Drillhole # (Collar Elevation)
- Depth of Weathering
- (210) — Drillhole Trace (Total Depth of Drillhole)

Generalized Stratigraphic Column

OVERBURDEN
- Seam 8
- SEAM 7 INTERBURDEN
- Seam 7
- SEAM 6 INTERBURDEN
- Seam 6
- SEAM 4 INTERBURDEN
- Seam 4
- SEAM 3 INTERBURDEN
- Seam 3
- SEAM 2 INTERBURDEN
- Seam 2
- SEAM 1 INTERBURDEN
- Seam 1
- Pictured Cliffs Sandstone (PCF)

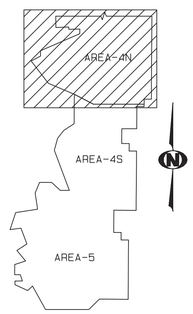


Area 4 North - Section F

Section 1,996,800 North

Looking North

Horizontal Scale
1000 0 1000
FEET



REV. No.	DATE	DRAFT. BY	REVISION DESCRIPTION	DWG.	E.G.	P.E.
14-A	MAR 2014	RY	REVISED TITLE BLOCK	JM	KA	KB
12-A	MAR 2012	RY	PREPARED FOR SUBMITTAL TO OSM	JM	KA	KB

APPROVALS

CERTIFICATION STATEMENT

I, Kevin A. Bahe, hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

KEVIN A. BAHE NEW MEXICO 17850 PROFESSIONAL ENGINEER

Digitally signed by Bahe, Kevin KA
Reason: I attest to the accuracy and integrity of this document
Date: 2014.05.19 14:05:28 -06'00'

EXHIBIT 17.1-3

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Navajo Mine

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Fruitland,New Mexico 87416
Phone: 505-598-4200
Fax: 505-568-3361

AREA 4 NORTH
EAST - WEST GEOLOGIC
CROSS-SECTIONS E - F

PREPARED BY JM	DRAWN BY MO	SCALE AS SHOWN
APPROVED BY CKA	DATE 3/3/2012	(SHEET 3 OF 3)