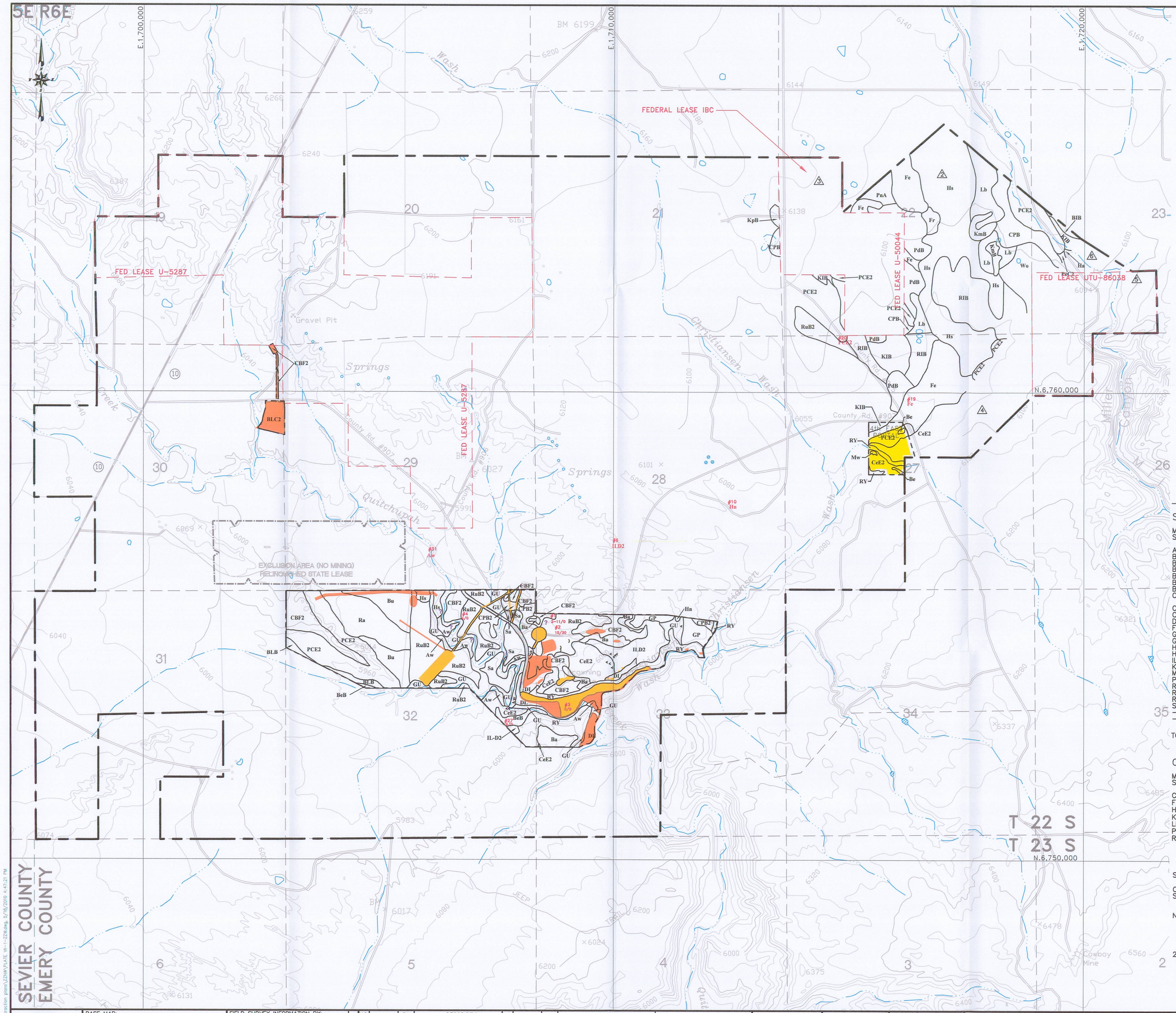

LEGEND

- PERMIT AREA BOUNDARY
- ADJACENT AREA FOR NON-WATER RESOURCES. FOR THE AREA OF HYDROLOGIC EVALUATION, SEE PLATE VI-4
- SOIL TYPE BOUNDARY
- Aw — SOIL MAPPING UNIT
- SURFACE AFFECTED PRIOR TO 8/3/77
- SURFACE AFFECTED 8/3/77 TO 7/1/2002
- SURFACE AFFECTED POST 7/1/2002
- #14 — CORE SAMPLE SITE
- 6 / – — TOPSOIL DEPTH
- – / 22 — SUITABLE TOPSOIL DEPTH / MATERIAL BORROW DEPTH
- ? — SALINE/SODIC SPOT
- GULLIED
- ROCK OUTCROP

SURFACE OPERATIONS AREA

SOIL MAPPING UNITS

MAP SYMBOL	ACRES	MAPPING UNIT
Aw	9.0	ALLUVIAL LAND, 0 TO 3% SLOPES
Ba	13.5	BADLAND
BeB	24.0	BEEBE FINE SANDY LOAM, 0 TO 3% SLOPES
Be	0.6	BEGAY
BLB	4.1	BILLINGS SILTY CLAY LOAM, 1 TO 3% SLOPES
BLC2	4.5	BILLINGS SILTY CLAY LOAM, 1 TO 6% SLOPES
Bu	6.8	BUNDERSON
CeE2	41.3	CASTLE VALLEY EXTREMELY STONY VERY FINE SANDY LOAM 0 TO 20% SLOPES
CBF2	27.1	CHIPETA-BADLAND ASSOCIATION, 3 TO 30% SLOPES, ERODED.
CPB2	8.6	CHIPETA-PERSAYO COMPLEX, 1 TO 8% SLOPES, ERODED.
DL	16.1	DISTURBED LAND, 0 TO 15% SLOPES
Fe	2.5	FERRON SILT LOAM HEAVY VARIANT, 0 TO 3% SLOPES
GP	9.2	GP SILT LOAM, 0 TO 12% SLOPES
GU	38.6	GULLIED LAND, VARIABLE SLOPES
Hn	0.2	HUNTING CLAY LOAM, 0 TO 5% SLOPES
Hs	3.8	HUNTING CLAY LOAM, MODERATELY SALINE, 1 TO 3% SLOPES
ILD2	18.5	ILDEFONSO LOAM, 3 TO 30% SLOPES
KIB	1.4	KILLPACK SILTY CLAY LOAM, 0 TO 3% SLOPES
Mw	0.2	MONTWELL
PCE2	43.55	PERSAYO-CHIPETA COMPLEX, 1 TO 20% SLOPES
Ra	27.4	RAFAEL SILTY CLAY LOAM, 1 TO 3% SLOPES
RuB2	65.7	RAVOLA-BUNDERSON COMPLEX, 1 TO 3% SLOPES, ERODED
RY	34.6	ROCKLAND
Sa	14.5	SALTAIR SILTY CLAY LOAM, 0 TO 30% SLOPES
–	19.5	INDUSTRIAL (COAL MINING)
–	5.8	ROADS
TOTAL	442.45	

AFFECTED ACREAGE

	ACRES
PRIOR TO 8/3/77	19.5
8/3/77 TO 9/1/90	31.2
NEAR FUTURE DISTURBANCE	85.7
POTENTIAL DISTURBANCE	289.6
POST JULY 1, 2002	16.45
TOTAL	442.45

OTHER MAPPED SOILS NOT IN SURFACE OPERATIONS AREAS

MAP SYMBOL	MAPPING UNIT
CPB	CHIPETA-PERSAYO ASSOCIATION, 1 TO 3% SLOPES
Fr	FERRON SILT LOAM
Ha	HARDING VERY FINE SANDY LOAM
KmB	KILLPACK CLAY LOAM, HIGH WATER TABLE VARIANT, 1 TO 3% SLOPES
Lb	LIBBINGS SILTY CLAY LOAM
PeC2	PENOYER LOAM, 2 TO 6% SLOPES, ERODED
RIB	RAVOLA LOAM, 1 TO 3% SLOPES

SAMPLE

CORE SAMPLE SITES
SURFACE OPERATIONS AREA

NO.	SOIL SERIES
1	CHIPETA-BADLANDS ASSOC.
2	RAVOLA-BUNDERSON COMPLEX
3	DISTURBED LAND
4	RAVOLA-BUNDERSON COMPLEX
27	BEEBE VARIANT

CORE SAMPLE SITES
NEAR SURFACE OPERATIONS AREA

SAMPLE NO.	SOIL SERIES
6	GP SERIES
10	HUNTING
19	FERRON VARIANT
20	PERSAYO-CHIPETA COMPLEX
31	ALLUVIAL LAND

RECEIVED
MAY 20 2010
DIV. OF OIL, GAS & MINING

REGISTERED PROFESSIONAL ENGINEER
No. 168246
RICHARD B. WHITE
STATE OF UTAH

EarthFax

BASE MAP:
U.S.G.S. 7.5 MINUTE QUADRANGLE'S. EMERY WEST 1968. EMERY EAST 1968, PHOTO REVISED 1978. MESA BUTTE 1968, PHOTO REVISED 1978. WALKER FLATS 1968, PHOTO REVISED 1978.

COORDINATE SYSTEM:
STATE PLANE COORDINATES. NAD 83 CONUS ZONE 4302-UTAH, CENTRAL – US FEET VERTICAL DATUM = NAVD 88-US FEET

FIELD SURVEY INFORMATION BY:
J. WALSH & ASSOCIATES 3/81
HANWEE-WHITE 10/91
USDA-SCS 10/98

EXTERNAL REFERENCE:
G:\UC982\XREF-CURRENT\XREF-USGSMAP.DWG
G:\UC982\XREF-CURRENT\XREF-PERM-ZZNW.DWG
G:\UC982\XREF-CURRENT\XREF-SECTION.DWG

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	8/20/01	TDK	ADD 1.45 AC. SURFACE DISTURBANCE 4TH EAST PORTAL SITE
2	6/30/05	JAG	ADDED FIRST NORTH I.B.C.
3	12/12/06	JAG	1ST NORTH FED LEASE IBC, FULL EXTRACTION
4	05/09	JAG	ZZ NORTH ADJ. VS. PERMIT REF. 2089
5	08/09	JAG	ZZ NORTH MILLER CANYON LBA U-86038
6	04/10	JAG	ZZN WEDGE

0' 1000'
SCALE: 1" = 1000'
CONTOUR INTERVAL = 40'

DRAWN BY: SWF
CHECKED BY: JAG
ORIGINAL DATE: 8/95
RE-DRAWN DATE: 12/05
APPROVED BY: JAG
DWG DATA: G:\UC982\03\DWG\PLATE VII-1.DWG

EMERY MINE
EMERY COUNTY, UTAH
PERMIT NO. ACT015/015

CONSOLIDATION COAL COMPANY
P.O. BOX 566
SESSER, IL 62884-0566

PLATE VII-1
SOIL MAP

See accompanying For additional information
File in:
☐ Confidential
☐ Shelf
☒ Expandable
Date Folded 05/20/2010 01500015