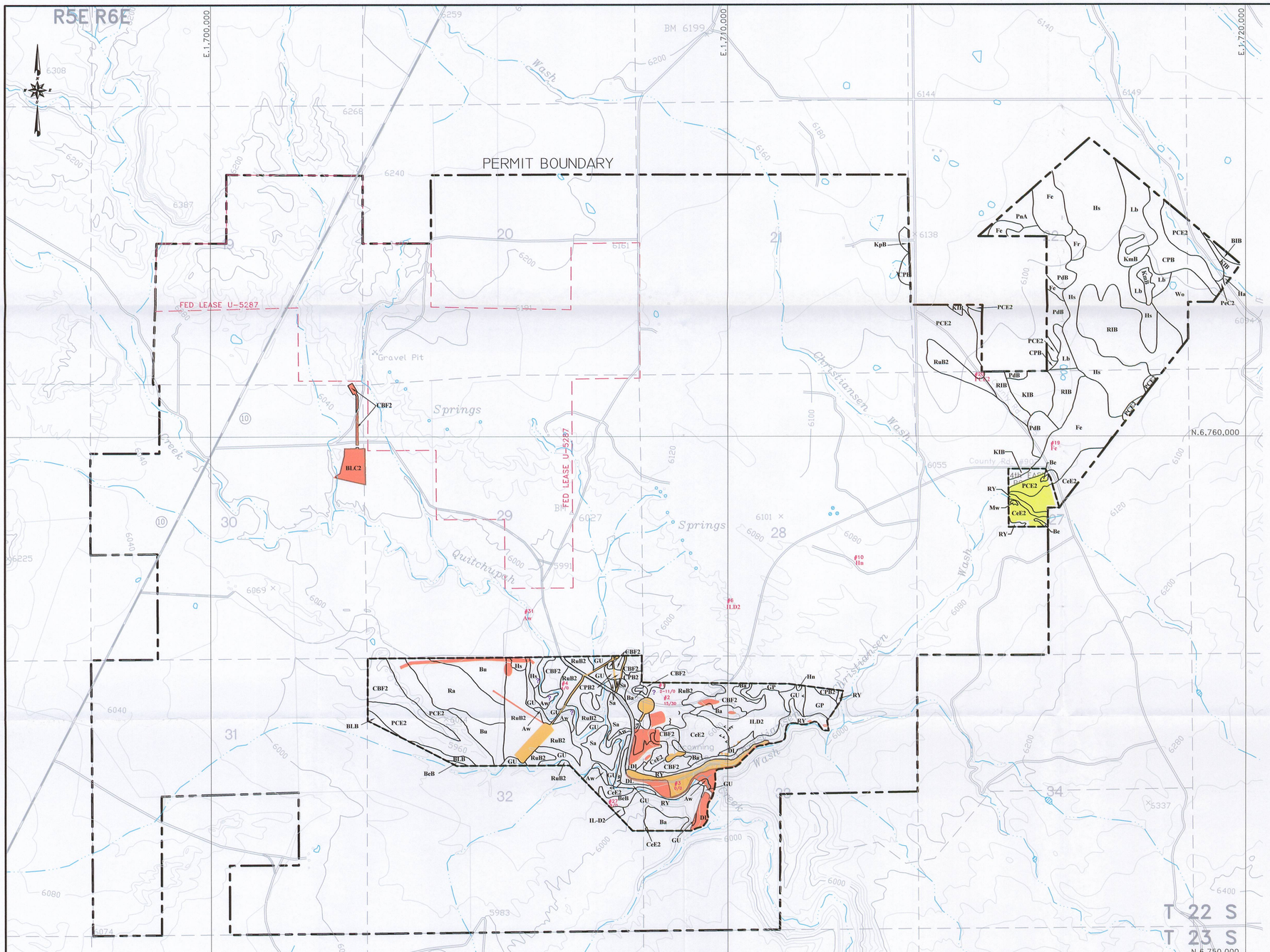

LEGEND

- EXISTING OR POTENTIAL CONSOL SURFACE OPERATIONS AREA
- 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
JAN 08 2009
DIV. OF OIL, GAS & MINING

REGISTERED PROFESSIONAL ENGINEER
No. 168246
RICHARD B. WHITE
6 Jan 2006
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 CORRS.
ZONE 4302–UTAH, CENTRAL – US FEET
VERTICAL DATUM – NAVD 88–US FEET

FIELD SURVEY INFORMATION BY:
J. WALSH & ASSOCIATES 3/81
HARNER–WHITE 7/81
USDA–SCS 10/88

EXTERNAL REFERENCE:
G:\UC982\03\DWG\XREF–USGSMAP.DWG
G:\UC982\03\DWG\XREF–PERMBOUND.DWG
G:\UC982\03\DWG\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.

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