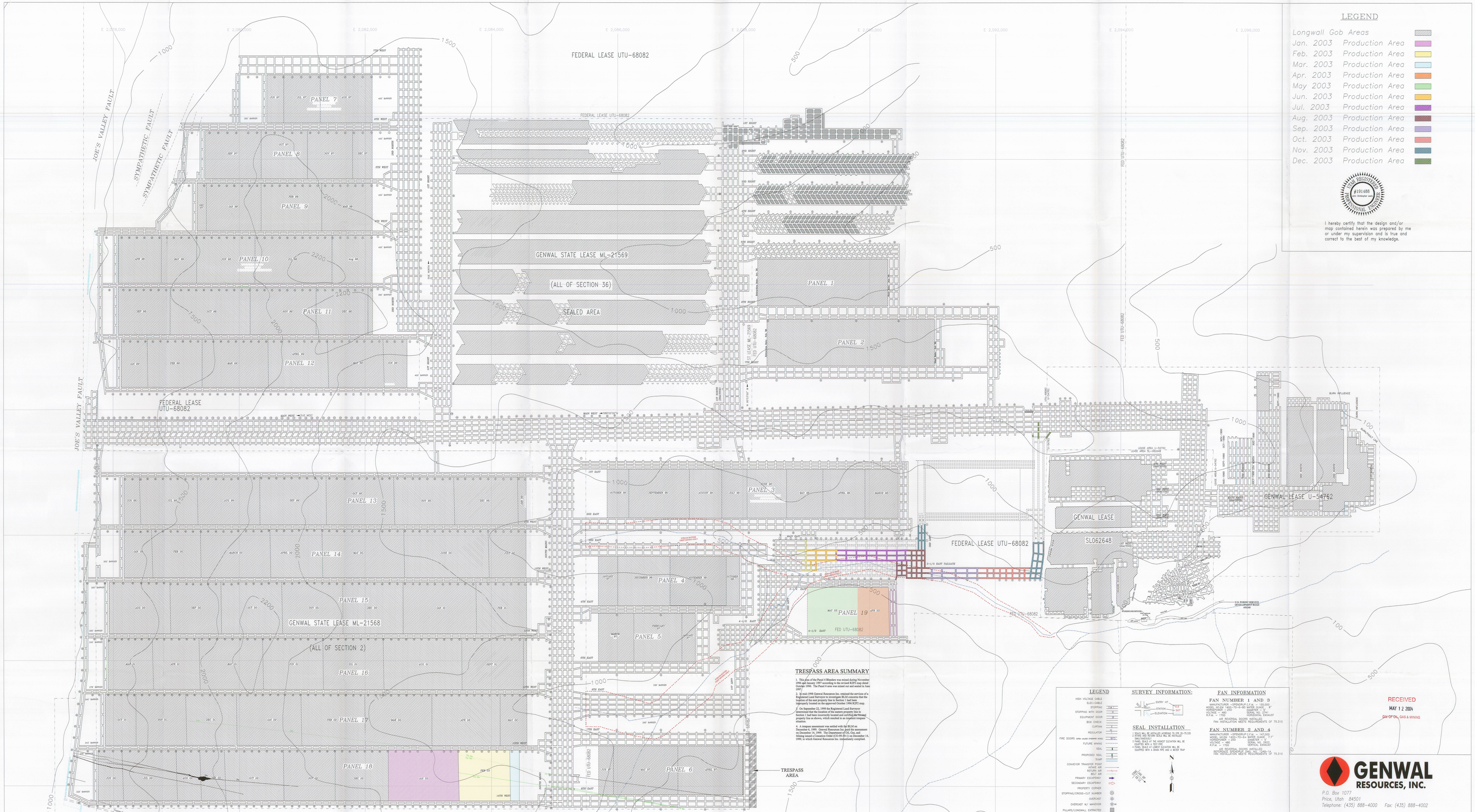


## LEGEND

- Longwall Gob Areas
- Jan. 2003 Production Area
- Feb. 2003 Production Area
- Mar. 2003 Production Area
- Apr. 2003 Production Area
- May 2003 Production Area
- Jun. 2003 Production Area
- Jul. 2003 Production Area
- Aug. 2003 Production Area
- Sep. 2003 Production Area
- Oct. 2003 Production Area
- Nov. 2003 Production Area
- Dec. 2003 Production Area

STATE OF UTAH REGISTERED #191488 PROFESSIONAL ENGINEER

I hereby certify that the design and/or map contained herein was prepared by me or under my supervision and is true and correct to the best of my knowledge.

## TRESPASS AREA SUMMARY

1. This area of the Panel 6 Bleeders was mined during November 1996 and January 1997 according to the revised B2F2 map dated October 1996. The Panel 6 area was mined out and sealed in June 1997.

2. In mid-1998 Genwal Resources Inc. retained the services of a Registered Land Surveyor to investigate BLM concerns that the location of the east property line in Section 1 had been improperly located on the approved October 1996 B2F2 map.

3. On September 22, 1998 the Registered Land Surveyor determined that the location of the eastern property line in Section 1 had been incorrectly located and certified the proper property line as shown, which resulted in an trespass trespass situation.

4. A trespass assessment was settled with the BLM on December 4, 1999. Genwal Resources Inc. paid the assessment on December 14, 1999. The Department of Oil, Gas, and Mining issued a Cessation Order (CO-99-B-1) on December 14, 1999, to which Genwal Resources Inc. immediately complied.

## LEGEND

HIGH VOLTAGE CABLE
ELEC-CABLE
STOPPING
STOPPING WITH DOOR
EQUIPMENT DOOR
BOX CHECK
CURTAIN
REGULATOR
FIRE DOORS (area vacuum crosscut only)
FUTURE WANG
SEAL
PROPOSED SEAL
SUMP
CONVEYOR TRANSFER POINT
AIR FLOW (FRESH AIR)
RETURN AIR
BELT AIR
PRIMARY ESCAPEWAY
SECONDARY ESCAPEWAY
PROPERTY CORNER
STOPPING/CROSS-CUT NUMBER
OVERCAST
OVERCAST W/ WINDOOR
PILLARS/LONGWALL EXTRACTED
BLEEDER MEASUREMENT POINT
CO SENSOR
CH4 SENSOR
PROJECTED OVERCAST
POSTED NOT WANTANED
VENTILATION PIPE
STOPPING/DAM
PROJECTED STOPPING
BRATTICE LINE
OVERWORKEN
TOP OF COAL SEAM
SURFACE DRILL HOLE
UNDERGROUND DRILL HOLE
WATER MONITORING WELL

## SURVEY INFORMATION:

ENTRY #7
STATION 5+50
ELEVATION 5+50

## SEAL INSTALLATION

1 SEALS WILL BE INSTALLED ACCORDING TO CFR 30-75.335
2 PANEL SEALS WITH SEALS WILL BE INSTALLED WITHIN 90DAYS
3 PANEL SEALS AT THE HIGHEST ELEVATION WILL BE EQUIPED WITH A TEST PIPE
4 PANEL SEALS AT LOWEST ELEVATION WILL BE EQUIPED WITH A 20inch PIPE AND A WATER SUMP

## FAN INFORMATION

### FAN NUMBER 1 AND 3

MANUFACTURER =JEFFERSON,P.O.A. = 185,000
MODEL NO.DW 1400-70-8-80 WATER GUAGE = 8"
HORSEPOWER = 250 DIAMETER = 8'6"
VOLTAGE = 460 SERIAL NO. = 3741
R.P.M. = 1750 HORIZONTAL EXHAUST
AIR REVERSAL DOORS (NATIVE-E)
FAN INSTALLATION MEETS REQUIREMENTS OF 75.310

### FAN NUMBER 2 AND 4

MANUFACTURER =JEFFERSON,P.O.A. = 147,000
MODEL NO.DW 1400-70-8-6 WATER GUAGE = 7.1"
HORSEPOWER = 250 DIAMETER = 8'
VOLTAGE = 460 SERIAL NO. = 3923
R.P.M. = 1750 VERTICAL EXHAUST
AIR REVERSAL DOORS (NATIVE-E)
FAN INSTALLATION MEETS REQUIREMENTS OF 75.310

## EVALUATION POINT LOCATIONS

1. SUMP AREA – EAST OF MAIN NORTH.
POINT-(W) (S) IS LOCATED AT SPAD #31
POINT-OUT (S) IS LOCATED AT SPAD #29
2. OLD WORKS – WEST OF MAIN NORTH.
POINT-IN (C) IS LOCATED 3 X-CUTS INBY INTAKE PORTAL, 4 X-CUTS WEST
POINT-IN (S) IS LOCATED 3 X-CUTS INBY INTAKE PORTAL, 8 X-CUTS WEST
POINT-OUT (S) IS LOCATED 1 X-CUT EAST OF SPAD #426, END OF VENT PIPE
3. SUMP AREA – MAIN WEST, X-CUT 70
POINT-IN (C) IS LOCATED 1 X-CUT EAST OF SPAD #631, X-CUT 72
POINT-IN (S) IS LOCATED 50' SOUTH OF SPAD #662, X-CUT 71
POINT-OUT (W) IS LOCATED AT X-CUT 69, SPAD #639, END OF VENT PIPE
4. SUMP AREA – BOTTOM OF SOUTH WANG.
POINT-IN (C) IS LOCATED EAST OF SPAD #5008 X-CUT #47
POINT-OUT (J) IS LOCATED EAST OF SPAD #5009 X-CUT #48

## NOTES

1. NO WATER POOLS EXIST IN THE MINE AREA
2. UNDERGROUND ELEV. ARE THE TOP OF THE SEAM
3. ALL ROADS ARE PUBLIC EXCEPT ON PROPERTY
4. NO MINES ABOVE OR BELOW THIS MINE
5. MINE ID NUMBER 42-01715
6. BELT = AVG HEIGHT 7.2'

PERSON RESPONSIBLE FOR THE CONTENTS ON THIS MAP:
JAMES D. SORENSEN MINE ENGINEER
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DIV OF OIL, GAS & MINING


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# Crandall Canyon Project
# Hiawatha Seam
# 2003 Production Areas

Scale: 1"=400'
Date: March 29, 2004
ACAD File: 2003 Summary Crandall DOGM