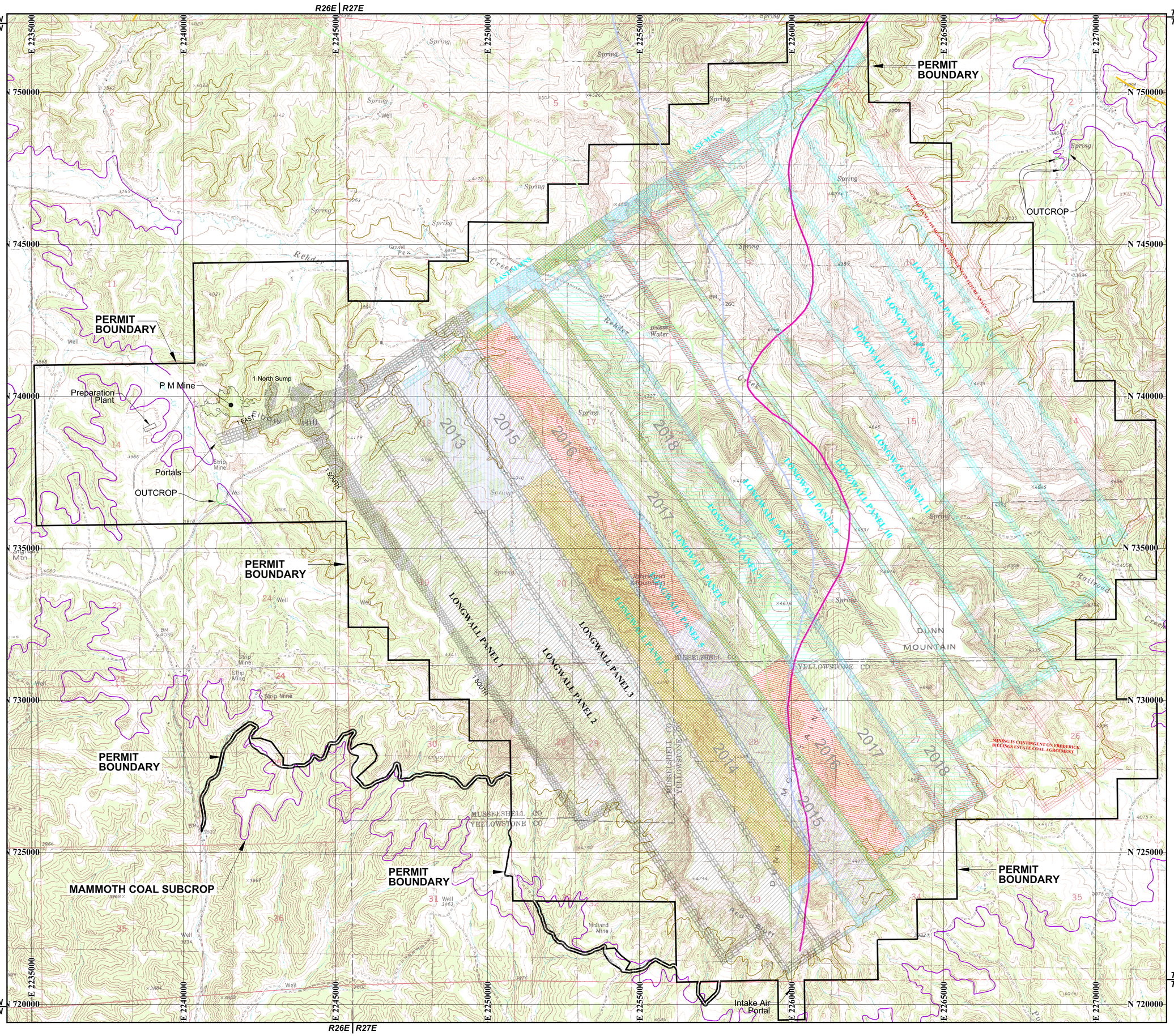

LEGEND

- PERMIT BOUNDARY
- CURRENT MINE WORKINGS (MINED OUT)
- MINE PLAN
- LONGWALL MINED OUT
- MAMMOTH COAL SUBCROP
- PROJECTED SUBCROP
- OUTCROP
- 200 FEET OF COVER
- 10-FOOT PARTING INTERVAL TO REHDER SEAM (DASHED SIDE LESS THAN 10 FEET)
- 2-FOOT PARTING INTERVAL TO REHDER SEAM (DASHED SIDE LESS THAN 2 FEET)
- 0.5-FOOT PARTING INTERVAL TO REHDER SEAM
- 1-FOOT MAMMOTH IN-SEAM PARTING (DASHED SIDE GREATER THAN 1 FOOT)

TIMING PLAN

CONTINUOUS MINER FOR ROOM & PILLAR PANEL DEVELOPMENT
LONGWALL MINING EQUIPMENT FOR PANEL EXTRACTION

- 2013
- 2014
- 2015
- 2016
- 2017
- 2018

NOTE:
1) REFER TO SEMI-ANNUAL PRODUCTION MAP(S) FOR DETAILED MAPPING OF THE UNDERGROUND WORKINGS AND MONTHLY MINED POLYGONS

0 1000 2000 3000

SCALE: 1" = 1000'

NAD 83 MONTANA STATE PLANE ZONE, INT FOOT
CONTOUR INTERVAL = 20 FEET

SOURCE: TOPOGRAPHIC BASE MAP FROM USGS 7.5' QUADRANGLES:
SIGNAL MOUNTAIN, PARK COULEE, DUNN MOUNTAIN NORTH, DUNN MOUNTAIN SOUTH.

BULL MOUNTAINS MINE NO. 1
Permit C1993017

MUSSELSHELL AND YELLOWSTONE COUNTIES

NOVEMBER 15, 2013

MAP 308-1a
5-YEAR MINE PLAN

MONTANA EDWARD AUGUST VIREN III No. 17686 PE PROFESSIONAL ENGINEER

REV.	DATE	BY	DESCRIPTION
9	11/15/13	D.R.W.	PERMIT UPDATE_MR182
8	9/3/13	D.R.W.	PERMIT UPDATE_AMENDMENT 3
7	3/15/13	D.R.W.	AMENDMENT 3_RESPONSE
6	9/1/12	D.R.W.	AMENDMENT 3_APPLICATION
5	1/19/12	D.R.W.	AMENDMENT 2_DEF 1
4	6/24/11	D.R.W.	SUBMIT AMENDMENT 2