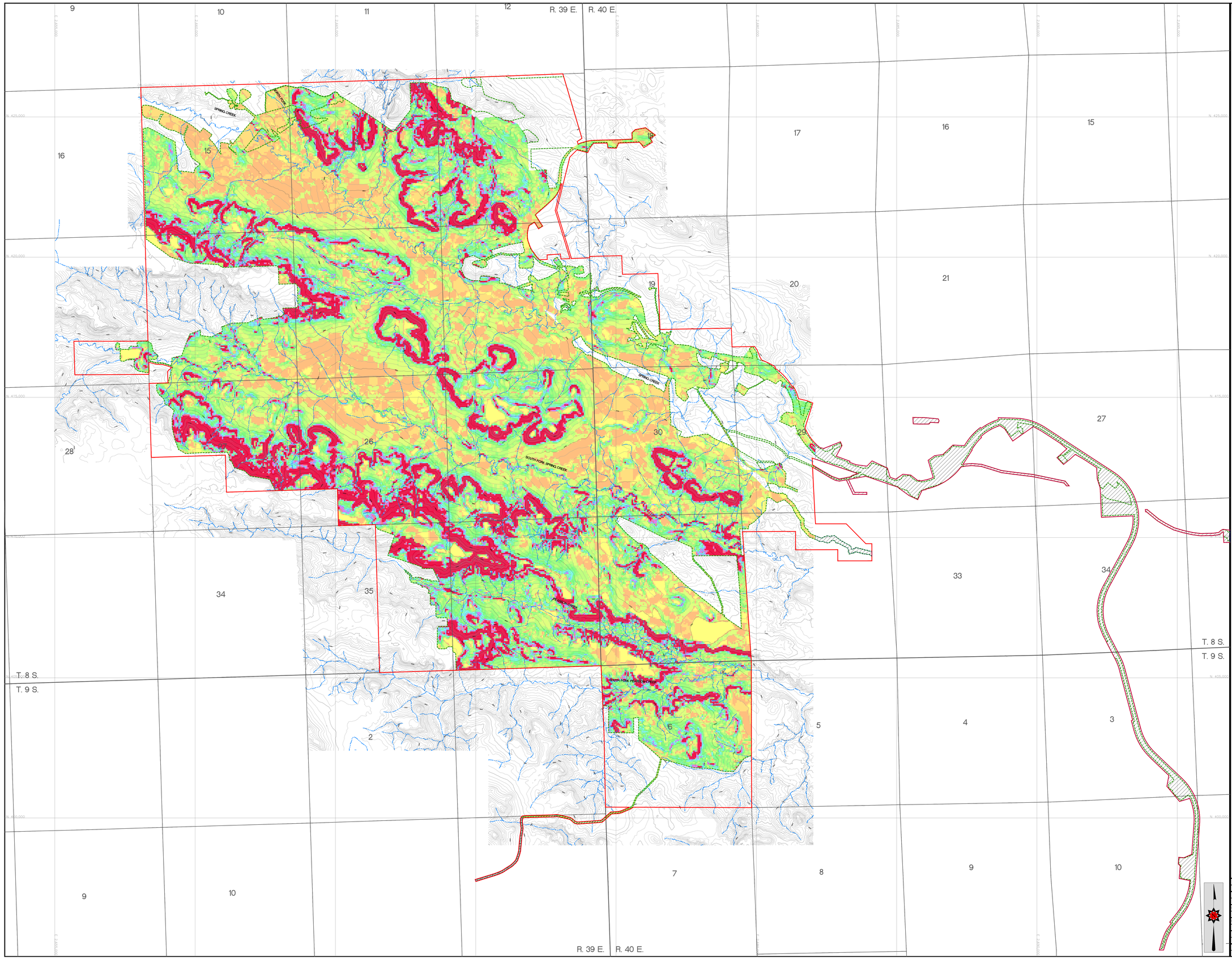


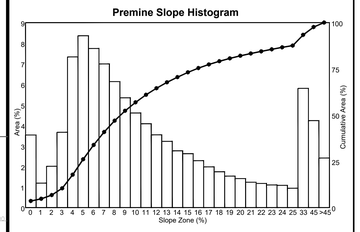
Note: See Plate 8 for current Permit and Life of Mine Disturbance Boundary

LEGEND

- Spring Creek Mine Permit Boundary
- Life of Mine Disturbance Boundary
- Drainage Channel
- Area With This Hatch Is For Facilities And Will Be Reclaimed To Match Pre-Mine topography. This Area Is Not Included In Slope Analysis

< 0
0 to 1
1 to 2
2 to 3
3 to 4
4 to 5
5 to 6
6 to 7
7 to 8
8 to 9
9 to 10
10 to 11
11 to 12
12 to 13
13 to 14
14 to 15
15 to 16
16 to 17
17 to 18
18 to 19
19 to 20
20 to 21
21 to 22
22 to 23
23 to 24
24 to 25
25 to 33.33
33.33 to 45
> 45

Premine Slope Histogram

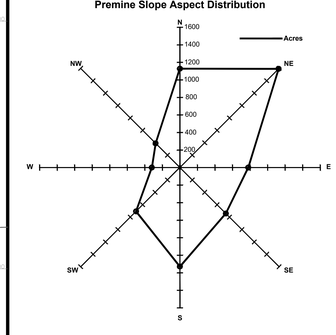


Premine Slope Table

Slope Zone (percent)	Area (acres)	Percent of Total (percent)	Accumulated Percent (percent)
0	239.87	3.53	3.53
1	80.94	1.19	4.72
2	136.39	2.01	6.73
3	248.59	3.66	10.39
4	497.68	7.33	17.72
5	567.17	8.36	26.08
6	525.51	7.74	33.82
7	474.32	6.99	40.81
8	416.21	6.13	46.94
9	362.41	5.34	52.28
10	311.96	4.60	56.88
11	276.85	4.08	60.96
12	240.56	3.54	64.50
13	218.88	3.22	67.72
14	187.02	2.76	70.48
15	178.08	2.62	73.10
16	154.98	2.28	75.38
17	134.51	1.98	77.36
18	118.19	1.74	79.10
19	103.82	1.53	80.63
20	95.98	1.41	82.04
21	83.83	1.23	83.27
22	79.56	1.17	84.44
23	74.65	1.10	85.54
24	72.92	1.08	86.62
25	63.85	0.94	87.56
33	393.46	5.80	93.36
45	286.85	4.23	97.59
>45	163.32	2.41	100.00

Average Slope: 12.3%
Minimum Slope: 0.0%
Maximum Slope: 92.9%

Premine Slope Aspect Distribution



DATE	BY	REVISION
4/11	SCC	Application 183
02/12	SCC	MR 206 IBC
02/20	SCC	MR232 TR 1 Major Permit Rev.

CLOUD PEAK ENERGY®

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313 ADDENDUM D, PLATE 1
PREMINE TOPOGRAPHIC SLOPE ASSESSMENT

DESIGN SCC | DRAWN SCC | DATE 4/11 | SHEET 1 OF 1
SCALE 1" = 1000' | CONTOUR INTERVAL 10' | FILE NUMBER 313 Addendum Plate 1 Premine Slope 20200210 TR MR232