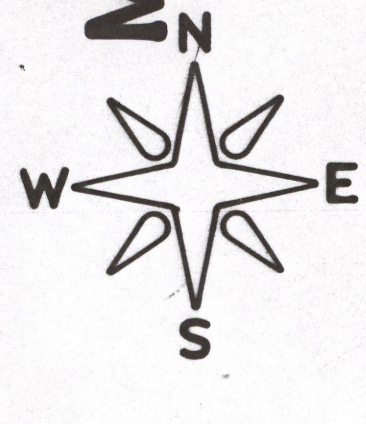


ARAPAHOE COUNTY PHASE II DRAINAGE PLAN AND EROSION CONTROL DETAILS (SHEET D)
MLRB PRE-MINING & MINING PLAN MAP - EXHIBIT C
 ARAPAHOE COUNTY USE BY SPECIAL REVIEW PLAN MAP FOR TWK DEER TRAIL PIT (SHEET I)



SCALE: 1" = 200'

OWNER ACROSS COUNTY ROAD #213 TO SOUTHWEST - Harold and Donald Curtis
 SW COR. SEC. 24
 T.5S., R.60W.
 (Point of Commencement)

50' MINING SETBACK FROM ROAD AND POWER POLES

OWNER OF POWER LINE AND POLES - Intermountain Rural Electric Association (IREA)

OWNER ACROSS COUNTY ROAD #213 TO WEST - Charles Vest

Mining Plan Map Notes:

- Maximum 15% to be in a state of disturbance at any one time.
- Phasing shown dependent upon demand for both borrow and sand and gravel aggregate commodity product, and quality and depth of sand and gravel aggregate resource.
- Storage of surface soil material and overburden allowed in 50' setback areas. No excavation allowed, only grading to match excavation contours.
- Vegetative Cover - Grass and Forbs with 25% ground coverage. See Exhibit J for additional information.
- Any surface soil material or overburden stockpiles that are left undisturbed longer than 6 months will be temporarily revegetated with a seed mixture of 50% of Pubescent Wheatgrass (9 lbs./acre) and 50% of Intermediate Wheatgrass (5 lbs/acre) drilled. If broadcast, this rate will be doubled.

Mining Plan Map Storm Water Management Plan (SWMP) Notes:

- Install Silt Fencing, Anchored Straw Bales Barriers, and/or Temporary Diversion Berms as needed for erosion and storm water management control.
- Regrade per EXHIBIT E - RECLAMATION PLAN and revegetate per EXHIBIT F - REVEGETATION PLAN MAP in approved MLRB mining permit application.
- Report any spill events to agencies as listed in SWMP.
- Follow Preventive Maintenance and Good Housekeeping Sections of SWMP.



OWNER TO SOUTH - Ken and Niles Dingham

S.E. COR. W 1/2, SEC. 24
 T.5S., R.60W.

East line W 1/2, Sec. 24

OWNER TO EAST - Ray and Opal Sensenig

RECORD OWNER OF SURFACE OF AFFECTED LAND - TWK Enterprises, Inc.

RECEIVED
 AUG 15 1996

EXHIBIT C - PRE-MINING AND MINING PLAN MAP

ADCO CONSULTING INC.
 2080 EAST 104TH AVENUE, SUITE 305
 THORNTON, COLORADO 80233-4316
 (303) 450-2204 FAX: (303) 452-4515

TWK DEER TRAIL REGULAR PERMIT PIT. #M-88-090
 A PART OF THE WEST ONE-HALF OF SECTION 24, TOWNSHIP 5 SOUTH, RANGE 60 WEST OF THE 6TH PRINCIPAL MERIDIAN, ARAPAHOE COUNTY, COLORADO

VEGETATION COVERING
 GRASSES AND FORBS (65% GROUND COVERAGE)
 SEE EXHIBIT J FOR MORE INFORMATION

TOTAL ACREAGE = 10,578 ACRES ±

EROSION AND SEDIMENTATION CONTROL SYMBOLS	SYMBOL	EXPLANATION
1	(Symbol)	PROPOSED RAY BALES
2	(Symbol)	MULCHING
3	(Symbol)	SURFACE ROUGHENING
4	(Symbol)	STRAW BALE BARRIER
5	(Symbol)	SILT FENCE - 6" HIGH
6	(Symbol)	STRAW BALE BARRIER
7	(Symbol)	TEMP. GRAVEL CONST. ENTRANCE

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SCALE: 1" = 200'

DATE: MARCH 18, 1996
 FILE NO: 24-5560-64L
 SHEET: 541

PROJ. NO: 96016
 SHEET: 1 OF 1

Handwritten calculations:
 $32700 \times \frac{1 \text{ in}}{400 \text{ ft}} \times \frac{200 \text{ ft}}{1 \text{ in}} = 16350 \text{ ft}^2$
 $16350 \text{ ft}^2 \times \frac{1 \text{ acre}}{43560 \text{ ft}^2} = 0.376 \text{ acres}$
 $0.376 \text{ acres} \times 100 \text{ ft} = 37.6 \text{ acres}$

Permit Number: M-1988-090
 Class: CE/Permit
 Date: 03/18/96
 Class: CE/Revision
 Type: Final
 Class: CE/Report CE Hydro/Cleaner
 Date: 03/18/96
 Application: (Coal only) () Bond () Enforcement () Inspection