


**COLORADO**Division of Reclamation,
Mining and Safety

Department of Natural Resources

MINERALS PROGRAM INSPECTION REPORT**PHONE: (303) 866-3567**

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Davis Pit	MINE/PROSPECTING ID#: M-2002-062	MINERAL: Sand and gravel	COUNTY: Prowers
INSPECTION TYPE: Monitoring	INSPECTOR(S): Amy Eschberger	INSP. DATE: March 26, 2019	INSP. TIME: 11:15
OPERATOR: Prowers County	OPERATOR REPRESENTATIVE: Mark Dorenkamp	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: \$0.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: June 6, 2019	

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>NA</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This was a normal monitoring inspection of the Davis Pit (Permit No. M-2002-062) conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). Mr. Mark Dorenkamp represented the operator during the inspection. The site is located approximately 9.5 miles northwest of Granada, CO in Prowers County. The site can be accessed from the north off Co Rd LL. **Photos 1-10** taken during the inspection are included with this report.

This is a 112c operation permitted for 105.35 acres (see enclosed Google Earth image of site) to mine sand and gravel for use in county road construction and maintenance. The site is situated on a west-facing slope of a fluvial terrace, just east of an ephemeral drainage (Cottonwood Creek) which reports to the Arkansas River approximately 0.75 mile south of the site. The Cottonwood Reservoir Number 2 also exists west of the mine site. The operator committed to maintaining a 100 foot mining setback from the creek and a 200 foot mining setback from the high waterline of the reservoir. The operation began mining from an existing gravel pit located near the center of the permit area. The deposit is 6-8 feet thick and exposed at the surface in some areas. Little to no overburden is expected to be encountered. A small mobile crushing/screening plant may operate on site as needed. As of Technical Revision No. 1 (approved in 2011), the operation is authorized to disturb up to 30 acres at any time.

The approved post-mining land use for the site is rangeland. The approved reclamation plan calls for grading all disturbed slopes to 3H:1V or flatter, replacing 4-6 inches of topsoil on disturbed land, and revegetating the site with a grass seed mixture consisting of Blue grama, Sideoats grama, Switchgrass, Western wheatgrass, and Buffalograss. According to the approved reclamation plan map (see enclosed reclamation plan map), all haul roads, including the access road off Co Rd LL, will be reclaimed. If any haul roads are expected to remain for reclamation, the operator would need to submit a Technical Revision to update the reclamation plan and map accordingly.

At the time of the inspection, the weather was clear and sunny. A permit sign was posted at the main site entrance off Co Rd LL. The corners of the permit boundary were marked with posts. Additionally, the northern permit boundary is delineated by Co Rd LL, and the eastern boundary is delineated by a barbed wire fence. The site was not active during the inspection, but mine personnel and equipment were present on site. According to the operator, the site is active every year in accordance with its intermittent status, as approved in 2014 with Technical Revision No. 2.

Current disturbance is located in the south-central portion of the permit area. The operation is advancing the pit generally northward at this time. The pit daylights primarily to the west and south, with a highwall that is approximately 10-12 feet in height. The Division estimates the highwall to be approximately 1,000 feet in length, with slopes ranging from 1.5H:1V to flatter than 3H:1V. The pit has reached its limits to the east. The western edge of the pit is currently 200 feet from the adjacent creek, which is greater than the 100 foot setback committed to in the permit. Several material stockpiles are stored on the pit floor. Large topsoil stockpiles are stored along the eastern edge of the pit, adjacent to the access road. Additional topsoil is stockpiled adjacent to an approximately 2 acre area just north of the pit which has been stripped in preparation for mining. A small caliche pit is located at the southwestern edge of the larger pit, and is approximately 5 feet in depth.

The Division estimates the operation has disturbed exactly 30 acres (including the access road), which is the maximum allowed disturbance approved in TR-1. Therefore, prior to disturbing additional acreage, the operator would need to submit a Technical Revision (form enclosed) to increase the maximum allowed disturbance to greater than 30 acres. As mentioned above, the access road could remain for reclamation if the operator were to submit a Technical Revision to revise the reclamation plan and map accordingly. In this case, the acreage for

the access road would not be included in the maximum disturbance acreage since it would not require reclamation.

Overall, the site appeared to be stable and no problems were observed.

This concludes the report.

Any questions or comments regarding this inspection report should be forwarded to Amy Eschberger at the Colorado Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, via telephone at 303-866-3567, ext. 8129, or via email at amy.eschberger@state.co.us.

PHOTOGRAPHS



Photo 1. View looking south showing large topsoil stockpiled stored adjacent to access road.



Photo 2. View looking north across pit located in south-central portion of permit area.



Photo 3. View looking southeast across pit showing material stockpiled on pit floor.

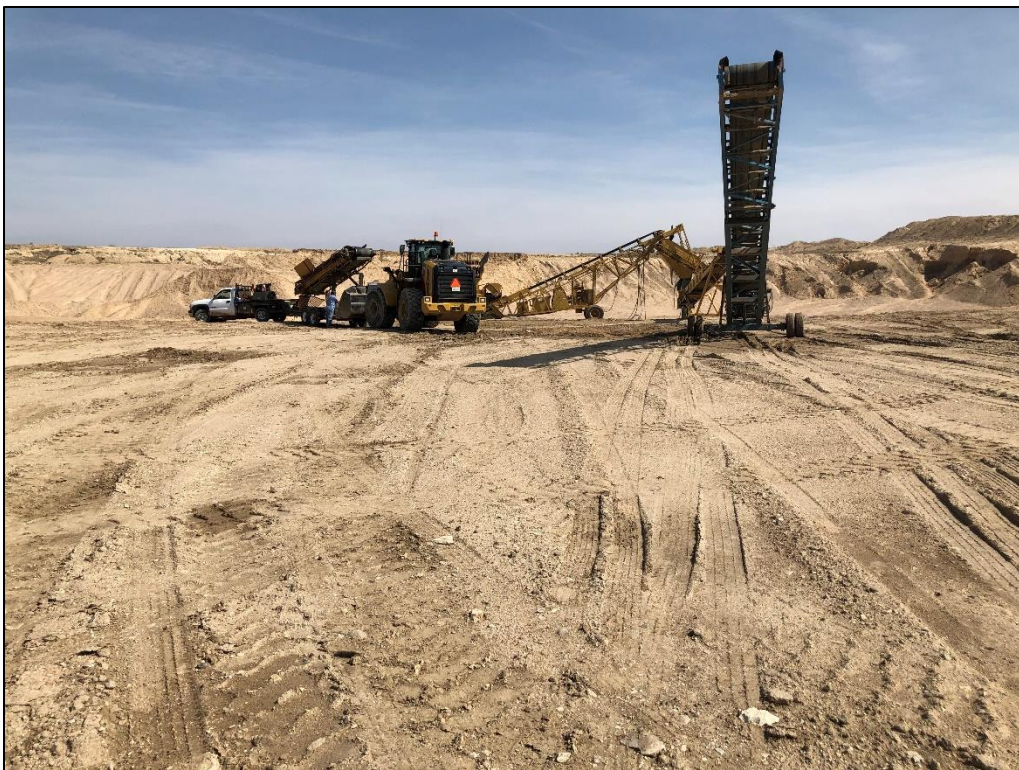


Photo 4. View looking north across pit showing mine equipment present on pit floor.



Photo 5. View looking east at eastern highwall approximately 10-12 feet in height with slopes ranging from 1.5H:1V to flatter than 3H:1V.



Photo 6. View looking north at northern highwall approximately 10 feet in height with slopes ranging from 2.5H:1V to flatter than 3H:1V.



Photo 7. View looking northwest at northwestern portion of pit with highwalls graded 2.5H:1V to flatter than 3H:1V.



Photo 8. View looking east at southern edge of pit.



Photo 9. View looking west at small caliche pit at southwestern edge of larger pit.



Photo 10. View looking west across area north of pit where topsoil has been stripped (and stockpiled nearby) in preparation for mining.

Inspection Contact Address

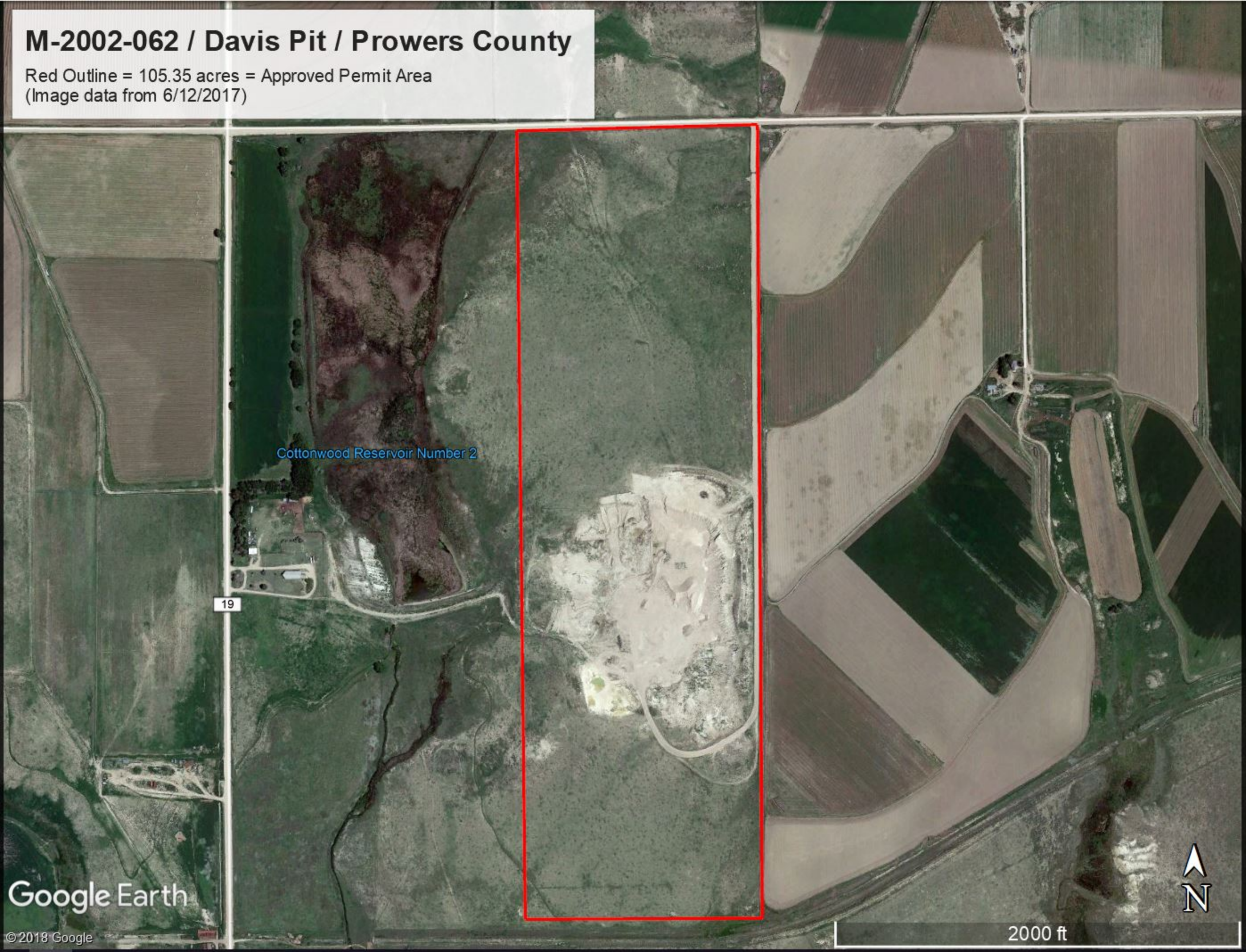
Mark Dorenkamp
Prowers County
301 S. Main Street, Ste. 215
Lamar, CO 81052

Encls: Google Earth image of site
Approved reclamation plan map
Technical Revision form

CC: Michael Cunningham, DRMS

M-2002-062 / Davis Pit / Prowers County

Red Outline = 105.35 acres = Approved Permit Area
(Image data from 6/12/2017)



Cottonwood Reservoir Number 2

19

Google Earth

© 2018 Google



2000 ft

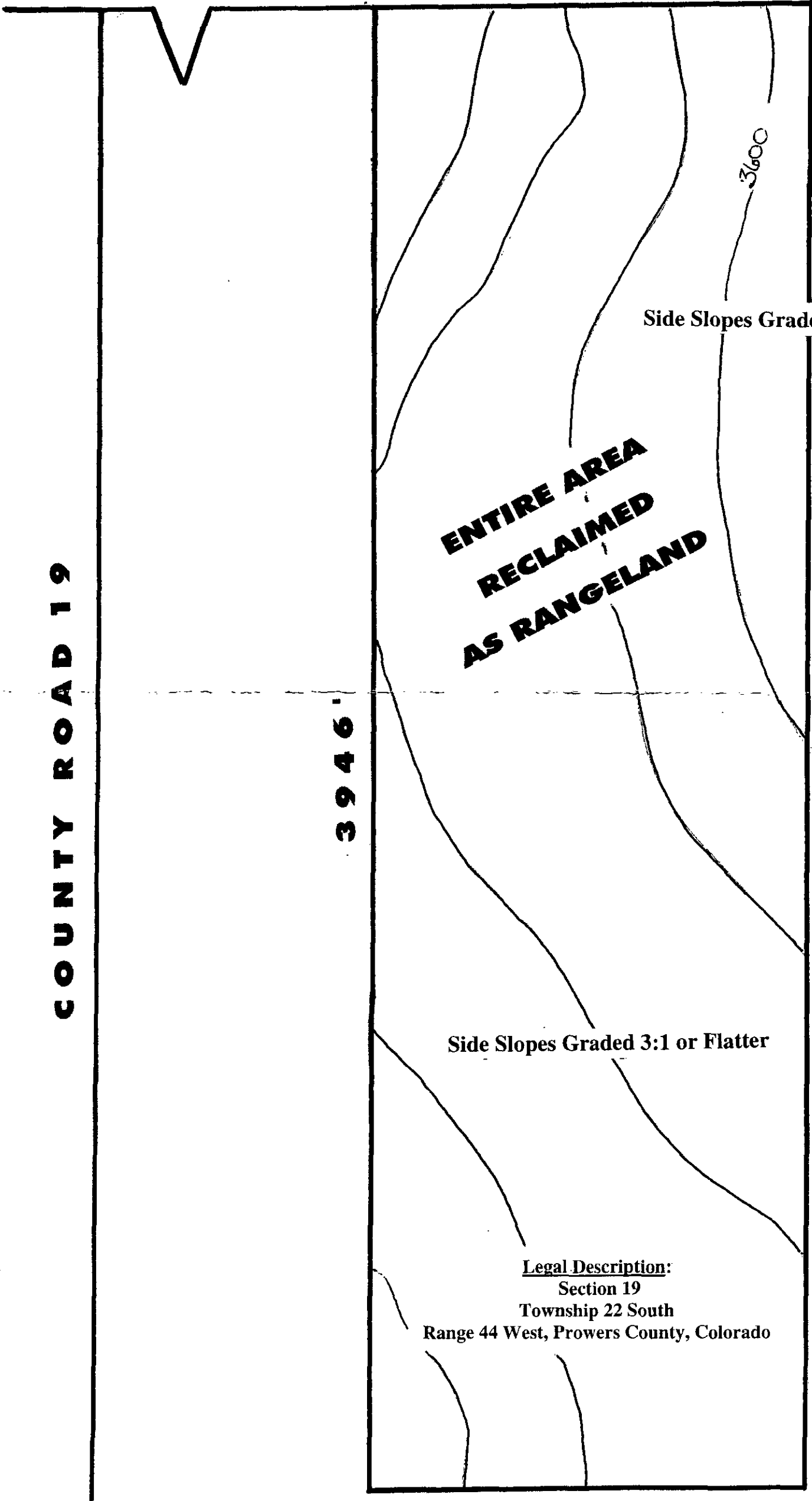
Operator Name: Prowers County
301 South Main, Suite 215
Lamar, CO 81052



EXHIBIT F - RECLAMATION PLAN MAP

Operation Name: Davis Pit

COUNTY ROAD LL



ENTIRE AREA
RECLAIMED
AS RANGELAND

Side Slopes Graded 3:1 or Flatter

Side Slopes Graded 3:1 or Flatter

Legal Description:
Section 19
Township 22 South
Range 44 West, Prowers County, Colorado

RECEIVED
SEP 13 2002
Division of Minerals and Geology

Prepared By:

Spencer

Date:

5-10-02

Map Scale: 1" = 300'



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

REQUEST FOR TECHNICAL REVISION (TR) COVER SHEET

File No.: M- _____ Site Name: _____

County _____ TR# _____ (DRMS Use only)

Permittee: _____

Operator (If Other than Permittee): _____

Permittee Representative: _____

Please provide a brief description of the proposed revision: _____

As defined by the Minerals Rules, a Technical Revision (TR) is: “a change in the permit or application which does not have more than a minor effect upon the approved or proposed Reclamation or Environmental Protection Plan.” The Division is charged with determining if the revision as submitted meets this definition. If the Division determines that the proposed revision is beyond the scope of a TR, the Division may require the submittal of a permit amendment to make the required or desired changes to the permit.

The request for a TR is not considered “filed for review” until the appropriate fee is received by the Division (as listed below by permit type). Please submit the appropriate fee with your request to expedite the review process. After the TR is submitted with the appropriate fee, the Division will determine if it is approvable within 30 days. If the Division requires additional information to approve a TR, you will be notified of specific deficiencies that will need to be addressed. If at the end of the 30 day review period there are still outstanding deficiencies, the Division must deny the TR unless the permittee requests additional time, in writing, to provide the required information.

There is no pre-defined format for the submittal of a TR; however, it is up to the permittee to provide sufficient information to the Division to approve the TR request, including updated mining and reclamation plan maps that accurately depict the changes proposed in the requested TR.

Required Fees for Technical Revision by Permit Type - Please mark the correct fee and submit it with your request for a Technical Revision.

<u>Permit Type</u>	<u>Required TR Fee</u>	<u>Submitted</u> (mark only one)
110c, 111, 112 construction materials, and 112 quarries	\$216	<input type="checkbox"/>
112 hard rock (not DMO)	\$175	<input type="checkbox"/>
110d, 112d(1, 2 or 3)	\$1006	<input type="checkbox"/>