




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: Big R Pit	MINE/PROSPECTING ID#: M-1988-052	MINERAL: Sand and gravel	COUNTY: Elbert
INSPECTION TYPE: Surety-Related Inspection	INSPECTOR(S): Amy Eschberger	INSP. DATE: March 24, 2022	INSP. TIME: 11:30
OPERATOR: Colorado farms llc	OPERATOR REPRESENTATIVE: None	TYPE OF OPERATION: 110c - Construction Limited Impact	
REASON FOR INSPECTION: Surety Related	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$18,642.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 15, 2022	

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Financial Warranty

VIOLATION: The financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) and Rule 4.2.1(1).

CORRECTIVE ACTIONS: On April 20, 2021, a Notice of Financial Warranty Increase (Revision No. SI-02) was issued for this permit in the amount of \$51,632.00, which is an increase of \$32,990.00 from the currently held financial warranty amount of \$18,642.00. To date, the operator has not posted the required financial warranty increase. In its Order issued on October 22, 2021, the Mined Land Reclamation Board (Board) found the operator in violation for failing to post the additional financial warranty within 60 days of the date of notice of adjustment (Violation No. MV-2021-021). The operator failed to post the required additional financial warranty by the Board Ordered deadline. In its second Order issued on March 22, 2022, the Board found the operator in violation for failing to comply with the conditions of the Board Order for Violation No. MV-2021-021. The Board also revoked the permit and found the financial warranty subject to forfeiture (Violation No. MV-2022-003). A Board hearing has been scheduled for the May 18-19, 2022 meeting, during which, the Division will recommend the Board confirm its previous determination that the financial warranty for this permit should be forfeited pursuant to C.R.S. 34-32.5-118(3)(a).

CORRECTIVE ACTION DUE DATE: N/A - Board hearing scheduled for May 18-19, 2022 meeting

OBSERVATIONS

This inspection of the Big R Pit (Permit No. M-1988-052) was conducted by Amy Eschberger of the Division of Reclamation, Mining and Safety (Division) to evaluate any changes in site conditions since the last bond estimate was calculated on February 5, 2021. The site is located approximately 13 miles north of Elizabeth, CO in Elbert County. The site can be accessed from the east via Co Rd 174. It should be noted, the northern permit boundary is directly adjacent to a 112c permit called the Miller Gravel Pit (Permit No. M-1982-112), which is operated by Schmidt Construction Company. The operator was notified of the inspection but unable to attend. **Photos 1-12** taken during the inspection are included with this report.

This is a 110c operation permitted for 9.9 acres to mine sand and gravel (see enclosed Google Earth image of site and site map submitted with AM-01 in 2011). A shop, office building, and paved parking area originally used by Hunt Construction, and now used by Colorado Farms LLC, is located just east of the permit area. A garage is located between the eastern permit boundary and the shop/office area. The site is divided by an interior road into two pit areas, north and south. No structures are present within the permit area which require demolition or removal. The approved post-mining land use for the site is rangeland. The reclamation plan calls for grading all highwalls to 3H:1V or flatter, ripping any compacted areas (e.g. stockpile/storage areas, pit floor, temporary roads), replacing an average depth of 6 inches of topsoil across disturbed land, and (per Technical Revision No. 1, approved on July 3, 2019) planting industrial hemp at 5 foot spacing on disturbed land. The existing dirt road that bisects the site may remain after reclamation.

The north pit area includes a large topsoil stockpile stored along the northern permit boundary (estimated to cover 1.35 acres) and a shallow, backfilled excavation area graded nearly flat. A small material stockpile remains at the southern edge of this area (estimated to cover 0.18 acre). Additionally, a few low-lying mounds of material remain along the western edge of this area. According to the permit file, the north pit area was backfilled and graded in 2014. The Division has no evidence the north pit area was ever retopsoiled or seeded. In fact, the large topsoil stockpile left in this area indicates it was not retopsoiled. Grasses and annual weeds have volunteered across this area. No changes were observed in this area since the Division's last inspection conducted on February 3, 2021.

The south pit area includes an excavated pit which opens up to the east, with highwall slope gradients ranging from near vertical to 2H:1V. The southern pit wall is higher (at approximately 15 feet or more) than the rest of the pit walls (at approximately 5-8 feet), and is irregular in shape. A few small topsoil stockpiles are stored along the southern edge of the pit, above the highwall. The Division estimates the pit wall to be approximately 1,855 feet in length. The eastern and southern portions of the pit wall are located very close to the permit boundary, most likely requiring backfilling rather than cut/fill methods to achieve the final slope gradient for reclamation. Due to the irregular shape of the southern pit wall, several knobs along this highwall could be excavated and the material used for backfill. Additional backfill material available on site includes the small stockpile of material stored just north of this pit and the low-lying mounds of material that remain along the western edge of the north pit area. During its last inspection, conducted on February 3, 2021, the Division had observed some imported soil (approximately 20-40 tons) stockpiled at the eastern edge of the pit. This material had been imported to the site to use for reclamation backfill, per the operator's June 28, 2019 notice to the Division. During the current inspection, this material appeared to have been graded out into the eastern portion of the pit. No other changes were observed in this area.

To complete reclamation of the site in accordance with the approved reclamation plan, the operator would need to grade the pit walls in the south pit area to 3H:1V or flatter, rip approximately 3.6 acres of compacted areas (1.63 acres stockpiling areas + 2 acres pit floor), replace 6 inches of topsoil on all disturbed lands (estimated to cover the entire 9.9 acre permit area), and plant industrial hemp at 5 foot spacing on all disturbed lands.

After conducting the last inspection, the Division calculated a required financial warranty in the amount of \$51,632.00 for completing reclamation of the site in accordance with the approved reclamation plan (see enclosed estimate). This amount is \$32,990.00 more than the currently held amount of \$18,642.00. Because site conditions have not changed since the last bond estimate was calculated, the required financial warranty amount remains the same.

The Division issued a Notice of Financial Warranty Increase (Revision No. SI-02) to the operator on April 20, 2021 for an additional required financial warranty in the amount of \$32,990.00. The operator failed to post the additional financial warranty by the statutory deadline. The Mined Land Reclamation Board (Board) issued an Order on October 22, 2021, which found the operator in violation for failing to post the additional required financial warranty within 60 days of the date of notice of adjustment (Violation No. MV-2021-021). The operator failed to post the required financial warranty by the Board-Ordered deadline of November 21, 2021. The operator did submit a check for the required amount on January 25, 2022; however, this check had expired and could not be accepted by the Division. Additionally, the operator's submittal did not include any of the necessary financial warranty documentation. The Board issued a second Order on March 22, 2022, which found the operator in violation for failing to comply with the conditions of the Board's Order for Violation No. MV-2021-021. The Board also ordered the permit revoked and found the financial warranty to be subject to forfeiture (MV-2022-003). A hearing has been scheduled for the May 18-19, 2022 Board meeting, at which, the Division will recommend the Board confirm its previous determination that the financial warranty for this permit should be forfeited. Notice of this hearing was sent to the operator via Certified Mail on April 1, 2022.

It should be noted, the Division was informed by Peter Veillon on January 25, 2022 that his company, Lakeport CF, LLC took title to the property on December 31, 2020 and are the current legal owners of the affected lands. The operator has not provided updated legal right of entry documentation for the affected lands.

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 southwest across south pit area, showing southern pit wall in background with slopes of near vertical to approximately 1H:1V.



Photo 2. View looking south across eastern edge of south pit area in which imported backfill material (indicated) was pushed into the pit.



Photo 3. View looking southwest across center of south pit area.



Photo 4. View looking west across south pit area, showing northern pit wall (indicated) in background with slopes of approximately 1H:1V to 2H:1V.



Photo 5. View looking north across northeastern corner of south pit area, showing eastern pit wall in foreground with slopes of approximately 1.5H:1V.



Photo 6. View looking east across southern edge of south pit area, showing small topsoil stockpile stored above pit wall.



Photo 7. View looking east across southern edge of south pit area, showing additional topsoil stockpile stored above pit wall.



Photo 8. View looking east across backfilled north pit area.



Photo 9. View looking north across backfilled north pit area, showing large topsoil stockpile (indicated) stored along northern permit boundary.



Photo 10. View looking north across backfilled north pit area, showing closer view of large topsoil stockpile (indicated) stored along northern permit boundary.



Photo 11. View looking south across western edge of backfilled north pit area, showing low-lying mounds of material (indicated) that remain in this area.



Photo 12. View looking east across backfilled north pit area, showing small material stockpile that remains at the southeastern edge of this area (adjacent to the south pit).

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

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

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited / V = Violation cited

Inspection Contact Address

Stefan Mocevic
Colorado farms llc
6460 S Quebec Street
Centennial, CO 80111

Encl(s): Google Earth image of site
Site map submitted with AM-01 in 2011
Division's bond estimate from February 5, 2021

CC: Michael Cunningham, DRMS

M-1988-052 / Big R Pit / Colorado Farms LLC / 110c

Red outline = 9.9 acres = Approved permit area (location approximated based on permit maps)

Yellow line = 1,855 feet = Approximate pit wall length

(Image data from 6/10/2021)

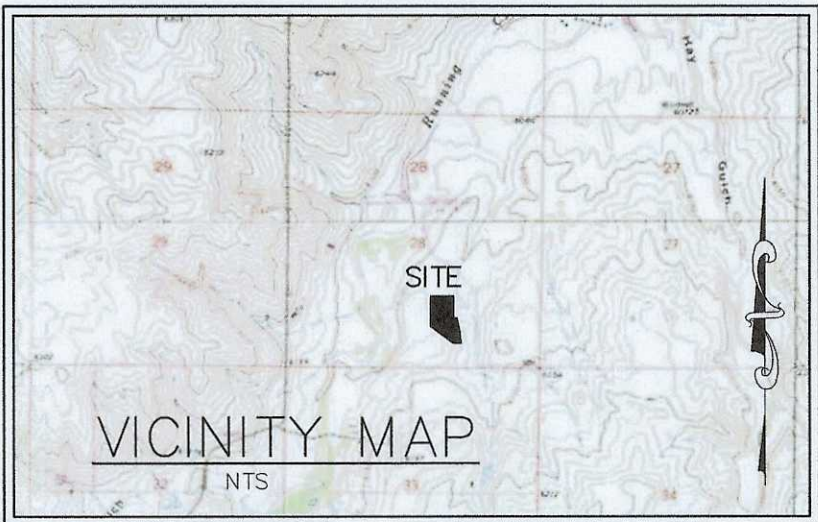
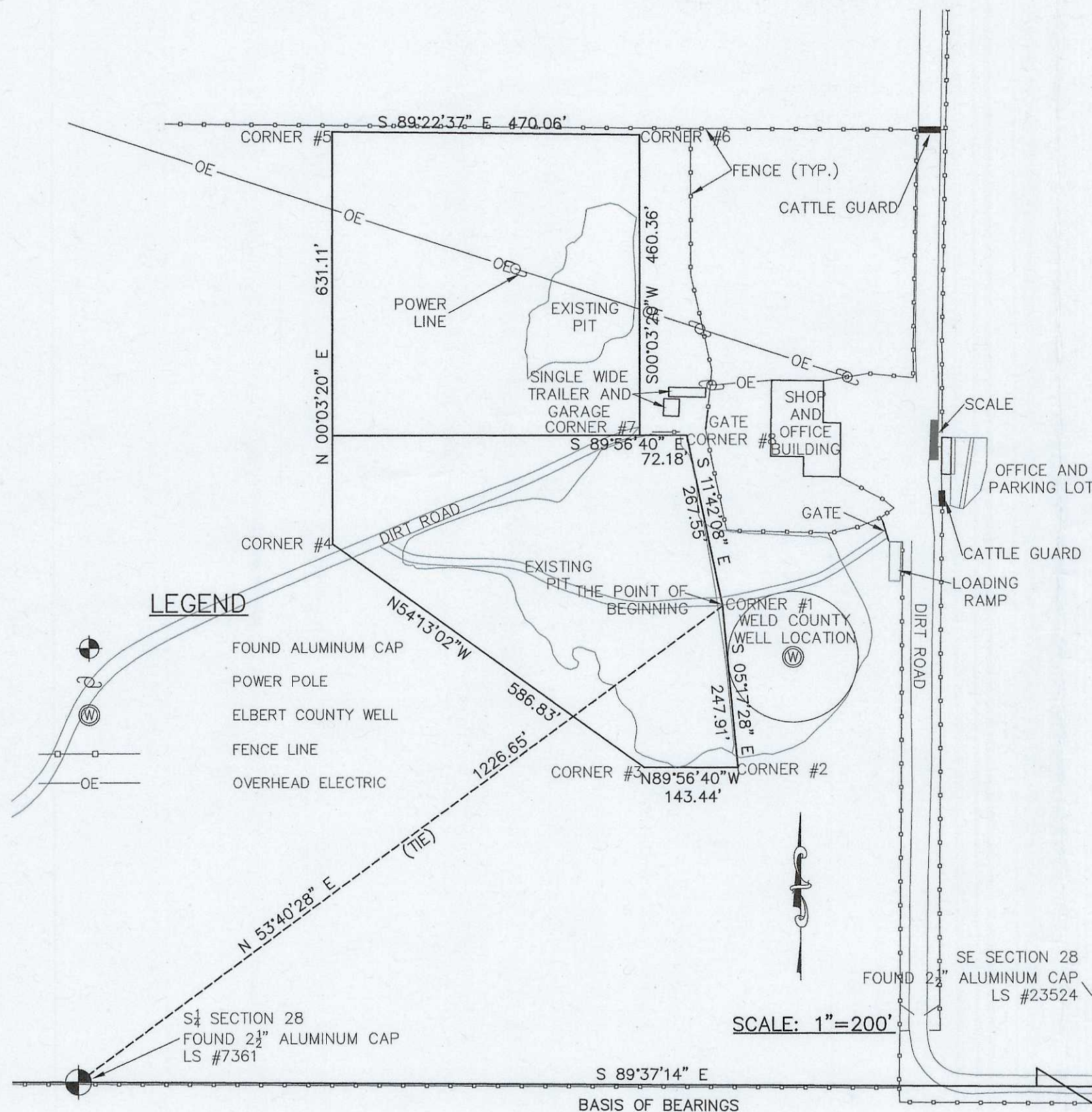


North Pit Area

South Pit Area

Hunt Cir

BIG R PIT
A PARCEL OF LAND SITUATED IN THE SW $\frac{1}{4}$ SE $\frac{1}{4}$ SECTION 28
TOWNSHIP 6 SOUTH, RANGE 64 WEST OF THE 6TH PRINCIPAL MERIDIAN



PROPERTY DESCRIPTION:

A PARCEL OF LAND SITUATED IN THE SE $\frac{1}{4}$ SW $\frac{1}{4}$ SECTION 28, TOWNSHIP 6 SOUTH, RANGE 64 WEST OF THE 6TH P.M., COUNTY OF ELBERT, STATE OF COLORADO SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS.

COMMENCING AT THE S $\frac{1}{4}$ CORNER OF SAID SECTION 28, A 2-1/2" ALUMINUM CAP L.S. #7361 FOUND IN PLACE, WHENCE THE SE CORNER OF SAID SECTION 28, A 2-1/2" ALUMINUM CAP L.S. #23524 FOUND IN PLACE, BEARS S89°37'14"E THE BASIS OF BEARINGS FOR THIS DESCRIPTION; THENCE N53°40'28"E A DISTANCE OF 1226.65 FEET TO CORNER #1, THE POINT OF BEGINNING; THENCE S05°17'28"E A DISTANCE OF 247.91 FEET TO CORNER #2; THENCE N89°56'40"W A DISTANCE OF 143.44 FEET TO CORNER #3; THENCE N54°13'02"W A DISTANCE OF 586.83 FEET TO CORNER #4; THENCE N00°03'20"E A DISTANCE OF 631.11 FEET TO CORNER #5; THENCE S89°22'37"E A DISTANCE OF 470.06 FEET TO CORNER #6; THENCE S00°03'20"W A DISTANCE OF 460.36 FEET TO CORNER #7; THENCE S89°56'40"E A DISTANCE OF 72.18 FEET TO CORNER #8; THENCE S11°42'08"E A DISTANCE OF 267.55 FEET, TO CORNER #1 THE POINT OF BEGINNING. SAID PARCEL CONTAINING 9.990 ACRES MORE OR LESS.

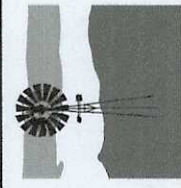
NOTES:

1. THIS PROPERTY IS SUBJECT TO RESERVATIONS, RESTRICTIONS, COVENANTS AND EASEMENTS OF RECORD OR IN PLACE.
2. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE COMMITMENT AND HOMESTEAD SURVEYING, INC. MADE NO ATTEMPT TO RESEARCH ANY EASEMENTS.
3. DATE OF THIS SURVEY WAS NOVEMBER 4, 2011.



NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.

HOMESTEAD SURVEYING INC.
P.O. BOX 877
CASTLE ROCK, CO 80104
TEL: (303) 877-4071
FAX: (303) 925-0547



REV.	DATE	DESCRIPTION	DRAWN

BIG R PIT	HUNT INVESTMENTS CO
43160 COUNTY ROAD 17-21	
ELIZABETH, CO 80107	

SCALE:	1"=200'
FILE NAME:	11-88-01-BASE
DATE:	11/5/11
DRAWN:	JLA
JOB NO.:	11.88.01
SHEET NO.:	1 OF 1

COST SUMMARY WORK

Task description: Cost Summary

Site: Big R Pit

Permit Action: Feb 2021 Inspection

Permit/Job#: M1988052

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 2/5/2021

County: Elbert

Filename: M052-000

User: AME

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade pit wall to 3H:1V	DOZER	1	13.93	\$2,613
002	Rip 3.6 acres compacted areas	RIPPER	1	5.90	\$1,184
003	Retopsoil 9.9 acres	SCRAPER1	1	14.31	\$9,079
004	Revegetate 9.9 acres	REVEGE	1	10.00	\$21,260
005	Mobilization/Demobilization	MOBILIZE	1	7.44	\$7,767
<u>SUBTOTALS:</u>				51.58	\$41,903

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$846

Performance bond: 1.05

Total = \$440

Job superintendent: 25.79

Total = \$1,794

Profit: 10.00

Total = \$4,190

TOTAL O & P = \$7,270

CONTRACT AMOUNT (direct + O & P) = \$49,173

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$2,459

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$9,729

TOTAL BOND AMOUNT (direct + indirect) = \$51,632

BULLDOZER WORKTask description: **Grade pit wall to 3H:1V**Site: **Big R Pit** Permit Action: **Feb 2021 Inspection** Permit/Job#: **M1988052****PROJECT IDENTIFICATION**

Task #: **001** State: **Colorado** Abbreviation: **None**
 Date: **2/5/2021** County: **Elbert** Filename: **M052-001**
 User: **AME**

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **Cat D7R DS XR Series II**
 Horsepower: **240**
 Blade Type: **Semi-Universal**
 Attachment: **NA**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$74.64	NA
Operating Cost/Hour:	\$71.55	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$187.49**
 Total Fleet Cost/Hour: **\$187.49**

MATERIAL QUANTITIES

Initial Volume: **9,893**
 Swell factor: **1.250**
 Loose volume: **12,366 LCY**

Source of estimated volume: **1,855 ft L x 12 ft avg H at 1H:1V**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION

Average push distance: **50 feet**
 Unadjusted hourly production: **1,022.9 LCY/hr**

Materials consistency description: **Compacted fill or embankment 0.9**

Average push gradient: **-5 %**
 Average site altitude: **6,130 feet**

Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	1.000	(EXCL.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)

Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8676

Adjusted unit production: 887.47 LCY/hr

Adjusted fleet production: **887.47** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.211/LCY

Total job time: **13.93** Hours

Total job cost: **\$2,613**

BULLDOZER RIPPING WORK

Task description: Rip 3.6 acres compacted areas

Site: Big R Pit Permit Action: Feb 2021 Inspection Permit/Job#: M1988052

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
Date: 2/5/2021 County: Elbert Filename: M052-002
User: AME

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS XR Series II Horsepower: 240
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$74.64</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$71.55</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$7.60</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$5.32</u>	<u>100</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$200.40</u>	
Total Fleet Cost/Hour:	<u>\$200.40</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 3.60 acres Rip Depth (ft): 2.00 Volume: 11,616 BCY or CCY

Source of estimated quantity: DRMS

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.45 feet/pass
Average Ripping Width: 6.50 feet/pass
Average Ripping Length: 300.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.734 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.734 Acres/hr
Site Altitude: 6,130 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.61 Acres/hr
Adjusted Hourly Fleet Production: **0.61** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **5.91** Hours

Unit cost: \$328.923 Per acre Total job cost: **\$1,184**

SCRAPER TEAM WORKTask description: **Retopsoil 9.9 acres**Site: **Big R Pit**Permit Action: Feb 2021 InspectionPermit/Job#: M1988052**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 2/5/2021County: ElbertFilename: M052-003User: AMEAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	NA
Support Equipment -Load Area:	Cat D7R DS XR Series II
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	75	NA	50	50
Ownership cost/hour:	\$144.75	NA	\$74.64	NA	\$65.89	\$10.06
Operating cost/hour:	\$145.83	NA	\$53.66	NA	\$29.48	\$9.39
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$0.00	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	\$0.00	NA	\$0.00	\$0.00
Operator cost/hour:	\$30.90	NA	\$41.30	NA	\$28.56	\$0.00
Unit Subtotals:	\$321.47	NA	\$169.60	NA	\$123.93	\$19.45
Number of Units:	1	0	1	0	1	1
Group Subtotals:	Work: \$321.47		Support: \$169.60		Maint: \$123.93	\$19.45

Total work team cost/hour: **\$634.45****MATERIAL QUANTITIES**Initial volume: 7,986

CCY

Swell factor: 1.215Loose volume: **9,703**

LCY

Source of estimated volume: 9.9 acres x 6 inch placement depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>51.00 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 6130 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	350.00	3.00	3.00	6.00	1069	0.37

Haul Time: 0.37 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	350.00	-3.00	3.00	0.00	2937	0.26

Return Time: 0.26 minutesTotal Scraper team cycle time: 2.13 minutesAdjusted for job conditions: 678.03 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 678.03 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 678.03 LCY/HourUnadjusted unit production/hour: 816.90 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 14.31 HoursUnit cost: \$0.936 /LCYTotal job cost: \$9,079

REVEGETATION WORKTask description: Revegetate 9.9 acresSite: Big R PitPermit Action: Feb 2021 InspectionPermit/Job#: M1988052**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 2/5/2021County: ElbertFilename: M052-004User: AMEAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	2.00	pound	\$0.34	\$0.67
			Total Fertilizer Materials Cost/Acre	\$0.67

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$37.03
Total Fertilizer Application Cost/Acre	\$37.03

TILLING

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$193.60

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$
	\$0.00

Total Seed Application Cost/Acre	
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Hackberry, Common	1742	Tubling, 3 cu. in. container (MEANS)	\$1.10	\$0.00	\$1,916.20
Totals Nursery Stock Cost / Acre					\$1,916.20

JOB TIME AND COST

No. of Acres:	9.9	Cost /Acre:	\$2,147.50
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$21,260.25
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$21,260
Job Hours:	10.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Mobilization/DemobilizationSite: Big R PitPermit Action: Feb 2021 InspectionPermit/Job#: M1988052**PROJECT IDENTIFICATION**

Task #: 005 State: Colorado Abbreviation: None
 Date: 2/5/2021 County: Elbert Filename: M052-005
 User: AME

Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D7R DS XR Series II	32.01	\$74.64	\$123.81	1	\$198.45	\$123.81	\$250.00
Cat D7R DS XR Series II	35.93	\$82.24	\$123.81	1	\$206.05	\$123.81	\$250.00
Cat 631G	52.50	\$144.75	\$141.54	1	\$286.29	\$141.54	\$250.00
CAT 14M	23.57	\$65.89	\$67.39	1	\$133.28	\$67.39	\$250.00
Subtotals:					\$824.07	\$456.55	\$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$28.84	1	\$28.84	\$28.84
Light Duty Pickup, 4x4, 3/4 T.	\$13.23	1	\$13.23	\$13.23
Subtotals:			\$42.07	\$42.07

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>AURORA</u>	
Total one-way travel distance:	<u>28.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$7,719.46</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$47.12</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.56</u>	<u>0.56</u>
Return Time (Hours):	<u>0.56</u>	<u>0.56</u>
Loading Time (Hours):	<u>1.30</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.30</u>	<u>NA</u>
Subtotals:	<u>3.72</u>	<u>1.12</u>

JOB TIME AND COST

Total job time:	<u>7.44</u>	Hours
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Total job cost:	<u>\$7,767</u>
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