




COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY
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: Dellacroce Pit	MINE/PROSPECTING ID#: M-1993-050	MINERAL: Gravel	COUNTY: El Paso
INSPECTION TYPE: Surety-Related Inspection	INSPECTOR(S): Timothy A. Cazier	INSP. DATE: November 19, 2014	INSP. TIME: 12:30
OPERATOR: Raymond F. & Robert W. Dellacroce	OPERATOR REPRESENTATIVE: Mike Ausburn	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Surety Related	BOND CALCULATION TYPE: Partial Bond	BOND AMOUNT: \$37,949.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: December 2, 2014

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>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>N</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</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>N</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(SB) COMPLETE INSP---- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	(ST) STIPULATIONS----- <u>Y</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 inspection was initiated by an Acreage Release (AR) request of 16.12 acres received by the Division on September 24, 2014 and revised on October 15, 2014 to 15.007 acres to account for keeping the haul road in the permit (see **Figure 1**). The Operator (Raymond F. & Robert W. Dellacroce) was represented by Mr. Mike Ausburn (Pioneer Sand Co. Inc.) who was present for the inspection. The Dellacroce Pit is a 112c gravel mine. The entrance is located approximately 1 mile west of Interstate 25, off West Baptist Road (exit 158).

Inspection:

A Permit sign was displayed as required (see **Photo 1**).

The east end of the site was walked to inspect the status of the area delineated on the map (see **Figure 2**) included in the release request. The following table summarizes the observations made during the inspection.

Summary of Observations

Area ID	Area (acres)	Condition of Area	Inspection Report Photo #s
Phase I – eastern portions	*	Releasable as is	2
Phase II – western portions	*	Releasable, culvert adjacent to above ground fuel tanks should be removed and erosion gully repair area should be monitored for continued vegetation establishment	2, 3
Phase III	*	Releasable as is	4
Phase V	*	Releasable as is	5
TOTAL:	15.007	<i>* Phases I – III & V are not separately delineated on Figure 1.</i>	

No noxious weeds were observed.

Records:

- The total permitted area is 146 acres, with a maximum affected area of 64.8 acres per Amendment 1 approved in 1999.
- The previous inspection was performed on 1/28/2014. A problem was cited requiring the Operator to submit either an acreage or surety reduction for completed reclamation.
- The anniversary date is February 22. Annual reports and fees are current through 2014.
 1. The 2013 annual report indicated 32.17 acres had been affected. The 2014 annual report indicated only 5 acres have been affected, but that 33.67 acres have been backfilled and 16.17 acres have been seeded.
 2. Based on the 2013 annual report and the request to release 15 acres (AR-01), approval of AR-01 will reduce the currently affected area to 17.17 acres.
- The post-mine land use is rangeland.

Current Stipulations:

None.

Bond:

The current bond is a \$37,949.00 corporate surety. It has not been updated since the approval of AM-01 in 1999. With the resolution of the affected area addressed by the AR-01 request and this inspection, an update to the financial warranty can now be addressed. The attached bond calculations are based on the 33.67 total affected area from the 2014 annual report with the current requested 15.007-acre release removed from the calculation. The total revised bond is \$40,900.00. **Please review the attached bond calculations and address any questions to the Division within 30 days of the date of this report.** A surety increase letter will sent to the Operator at that time.

Summary and Recommendations:

1. The Division will recommend approval of AR-01. Please be aware the Division will require a technical revision to update the permit boundary map upon approval of AR-01. The haul road will need to remain in the permit boundary.
2. The Operator and the Division will need to monitor the gully repair area in Phase II near the above ground fuel tanks to ensure the emerging vegetation continues to thrive as the surrounding vegetation appears to be.
3. **Review the attached bond calculations and address any questions to the Division within 30 days of the date of this report.**
4. **The Division will issue a surety increase 30 days after the date of this report.**

PHOTOGRAPHS



Photo 1. Required permit sign.

PHOTOGRAPHS (cont.)



Photo 2. Phase I area, background; Phase II area foreground (looking SE) {Note culvert}.



Photo 3. Phase II area, background (looking east).



Photo 4. Phase III area, background (looking SW).



Photo 5. Phase V area, background (looking NW).

Inspection Contact Address

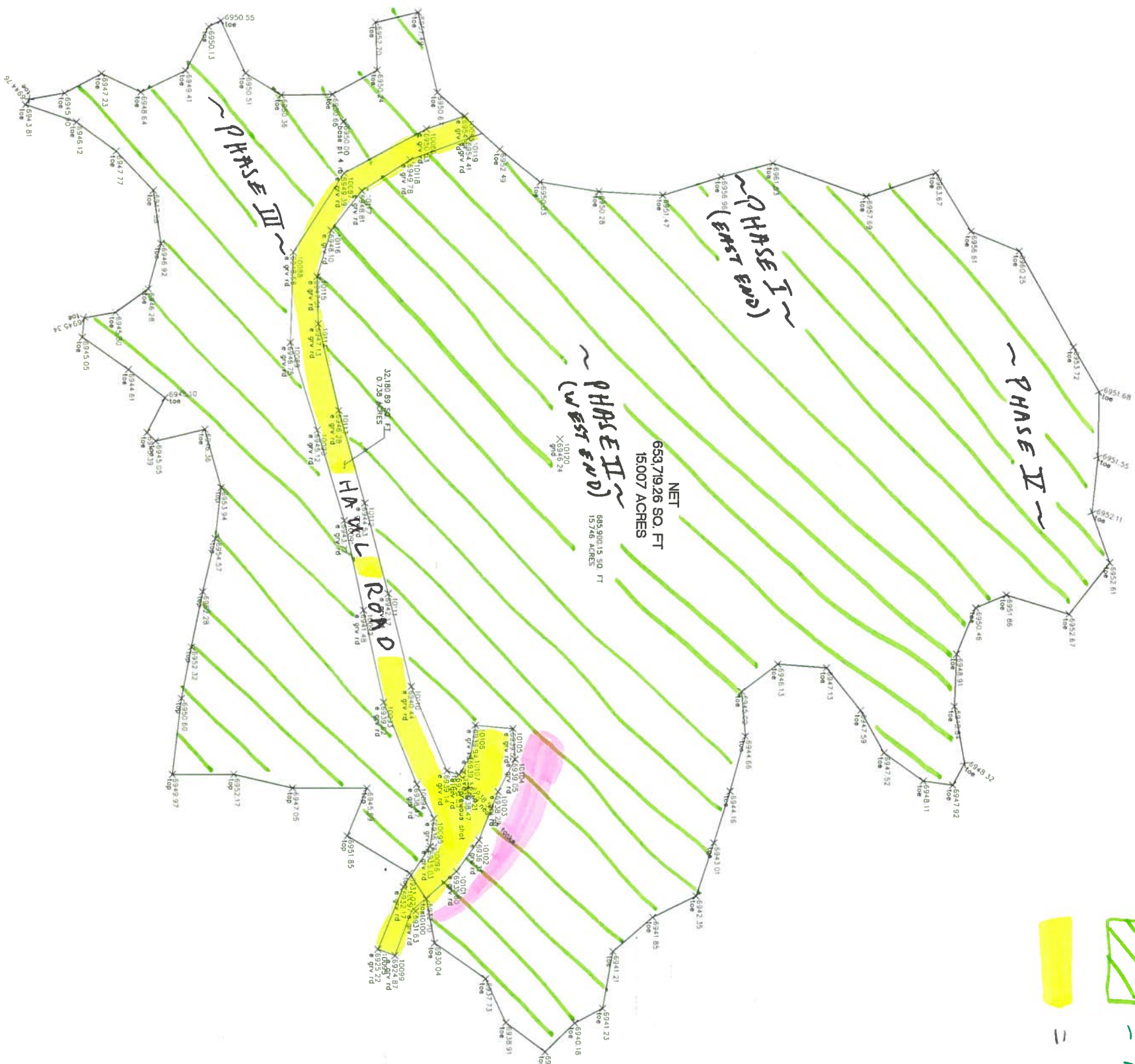
Raymond F. & Robert W. Dellacroce
2210 West Baptist Road
Colorado Springs, CO 80921

Enclosure

EC: Tom Kaldenbach, DRMS
DRMS file
Mike Ausburn, Pioneer Sand Co.

PIONEER SAND AND GRAVEL

OCTOBER 2014



= AREA TO MONITOR

= RELEASE AREA

AREA TO REMAIN IN PERMIT

 $\theta = 60^\circ$ 

Scale in Feet

FIGURE 1



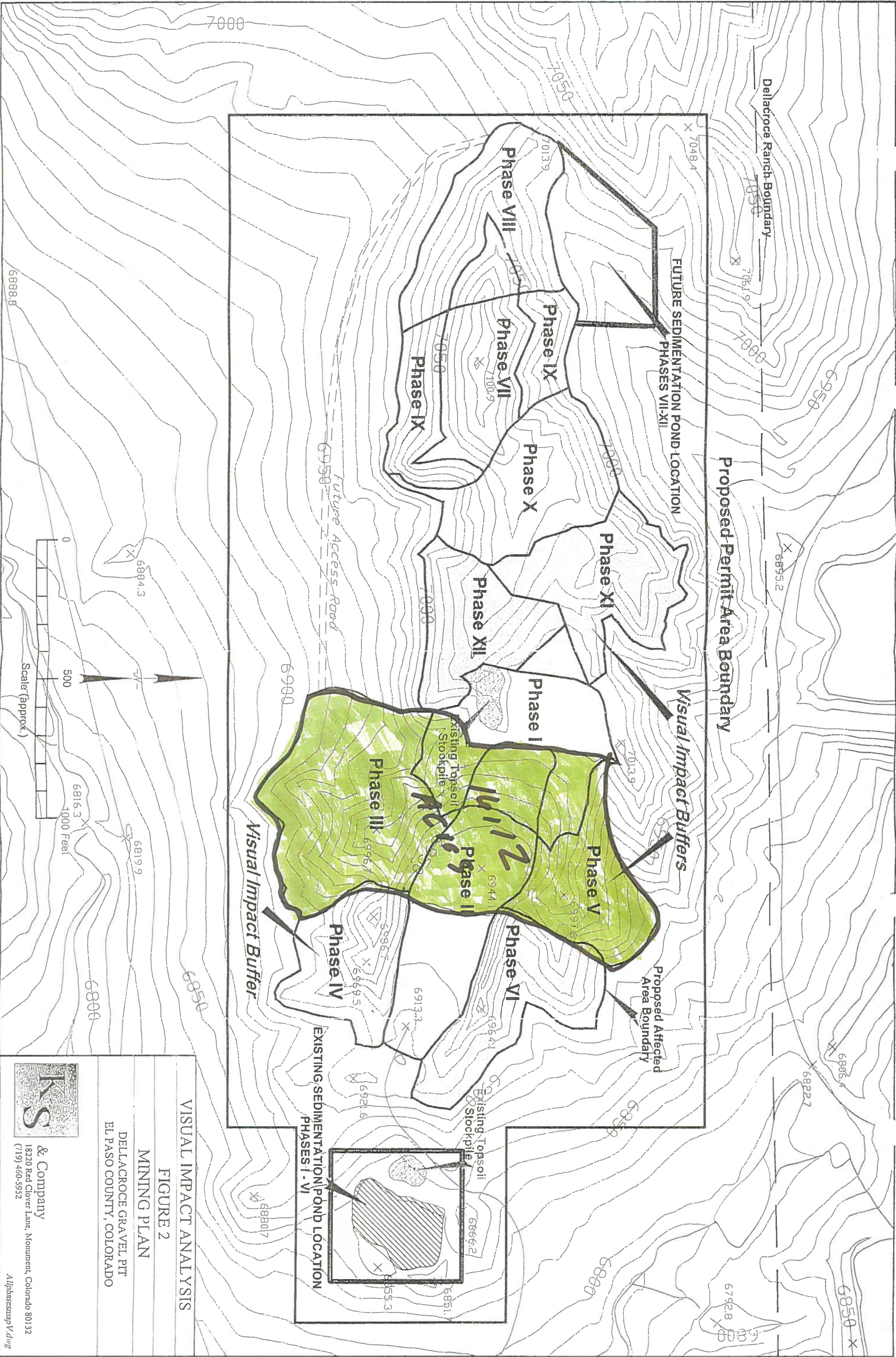
DELLACROCE PIT
SURVEY
JOB NO. 43-082
DATE PREPARED: OCT 15, 2014
DATE REVISED:

CIVIL CONSULTANTS, INC.

102 E. PUEBLO PEAK AVE. STE. 306
COLORADO SPRINGS,
COLORADO 80903

719.555.5485

SHEET 1 OF 1



VISUAL IMPACT ANALYSIS

FIGURE 2

MINING PLAN

DELLACROCE GRAVEL PIT
EL PASO COUNTY, COLORADO



& Company
18220 Red Clover Lane, Monument, Colorado 80132
(719) 460-5952

COST SUMMARY WORK

Task description: _____

Site: Dellacroce Pit Permit Action: 2014 Surety
Update Permit/Job#: M1993050

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 8/29/2014 County: El Paso Filename: M050-000
User: TC1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Cut Slopes to 3:1	DOZER	1	29.06	\$6,560.00
002	Apply Six Inches of Topsoil Over 9 Acres	DOZER	1	31.05	\$7,009.00
003	Reveg17.17 Acres	REVEGE	1	40.00	\$19,918.00
004	Mob/Demob	MOBILIZE	1	2.60	\$961.00
<u>SUBTOTALS:</u>				102.71	\$34,448

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	\$695.85
Performance bond:	1.05%	Total =	\$361.70
Job superintendent:	0.00 hrs	Total =	\$0.00
Profit:	10.00%	Total =	\$3,444.80

TOTAL O & P = \$4,502.35

CONTRACT AMOUNT (direct + O & P) = \$38,950.35

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>0.00</u>	Total =	<u>0.00</u>
Engineering work and/or contract/bid preparation:	<u>0.00%</u>	Total =	<u>\$0.00</u>
Reclamation management and/or administration:	<u>5.00%</u>		<u>\$1,947.52</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$6,449.87

TOTAL BOND AMOUNT (direct + indirect) = \$40,897.87

BULLDOZER WORKTask description: Cut Slopes to 3:1Site: Dellacroce PitPermit Action: 2014 Surety UpdatePermit/Job#: M1993050**PROJECT IDENTIFICATION**Task #: 001
Date: 8/29/2014
User: TC1State: Colorado
County: El PasoAbbreviation: None
Filename: M050-001Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: 1-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$70.00</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$107.59</u>	<u>100</u>
Ripper op. Cost/Hour:	<u>\$9.28</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.85</u>	<u>NA</u>

Total unit Cost/Hour: \$225.71
Total Fleet Cost/Hour: \$225.71**MATERIAL QUANTITIES**Initial Volume: 4,371
Swell factor: 1.060
Loose volume: 4,633 LCYSource of estimated volume: Exhibit E
Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 250 feet
Unadjusted hourly production: 377.8 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %
Average site altitude: 7,000 feetMaterial weight: 2,850 lbs/LCYWeight description: Gravel - Dry (1/4" - 2" diam.)**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.000</u>	<u>(CAT HB)</u>
Dozing method:	<u>1.200</u>	<u>(SLOT)</u>

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.807	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4220

Adjusted unit production: 159.43 LCY/hr

Adjusted fleet production: **159.43** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.416/LCY

Total job time: **29.06** Hours

Total job cost: **\$6,560**

BULLDOZER WORKTask description: Apply Six Inches of Topsoil Over 9 AcresSite: Dellacroce PitPermit Action: 2014 Surety UpdatePermit/Job#: M1993050**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 8/29/2014County: El PasoFilename: M050-002User: TC1Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 1-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$70.00	NA
Operating Cost/Hour:	\$107.59	100
Ripper op. Cost/Hour:	\$9.28	100
Operator Cost/Hour:	\$38.85	NA

Total unit Cost/Hour: \$225.71Total Fleet Cost/Hour: \$225.71**MATERIAL QUANTITIES**Initial Volume: 7,260Swell factor: 1.215Loose volume: 8,821 LCYSource of estimated volume: Exhibit ESource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 250 feetUnadjusted hourly production: 377.8 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 7,000 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.200	(SLOT)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7519

Adjusted unit production: 284.07 LCY/hr

Adjusted fleet production: **284.07 LCY/hr**

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.795/LCY

Total job time: **31.05 Hours**
Total job cost: **\$7,009**

REVEGETATION WORKTask description: **Reveg17.17 Acres**Site: **Dellacroce Pit**Permit Action: **2014 Surety Update**Permit/Job#: **M1993050****PROJECT IDENTIFICATION**Task #: **003**State: **Colorado**Abbreviation: **None**Date: **8/29/2014**County: **El Paso**Filename: **M050-003**User: **TC1**Agency or organization name: **DRMS****FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	6.00	pound	\$0.26	\$1.58
			Total Fertilizer Materials Cost/Acre	\$1.58

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$52.71
Total Fertilizer Application Cost/Acre	\$52.71

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Total Tilling Cost/Acre	\$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Smooth Brome - Lincoln	2.00	6.66	\$2.66
Intermediate Wheatgrass - Oahe	2.00	4.27	\$4.32
Slender Wheatgrass - San Luis	0.80	2.92	\$2.97
Thickspike Wheatgrass - Critana	0.80	2.83	\$4.14
Western Wheatgrass - Arriba	2.40	6.06	\$8.83
Totals Seed Mix	8.00	22.74	\$22.92

Application

Description	Cost /Acre
Drill seeding (DRMS Cost Data)	\$88.20

Total Seed Application Cost/Acre	\$88.20
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$65.89
Total Mulch Application Cost/Acre	\$65.89

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	17.17	Cost /Acre:	\$859.31
Estimated Failure Rate:	35%	Cost /Acre*:	\$859.31
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$14,754.35		
Reseeding Job Cost:	\$5,164.02		
Total Job Cost:	\$19,918		
Job Hours:	40.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob**Site: **Dellacroce Pit**Permit Action: 2014 Surety UpdatePermit/Job#: M1993050**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 8/29/2014County: El PasoFilename: M050-004User: TC1Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

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 D8T - 8SU	47.71	\$62.67	\$117.55	1	\$180.22	\$117.55	\$250.00
Subtotals:					\$180.22	\$117.55	\$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$52.64	1	\$52.64	\$52.64
Subtotals:			\$52.64	\$52.64

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>COLORADO SPRINGS</u>	
Total one-way travel distance:	<u>20.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$918.44</u>
* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$42.11</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.40	0.40
Return Time (Hours):	0.40	0.40
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.30	0.80

JOB TIME AND COST

Total job time:	<u>2.60</u>	Hours
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Total job cost:	<u>\$961</u>
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