



Tyrone Operations  
P.O. Box 571  
Tyrone, NM 88065

October 28, 2019

**Certified Mail #9171999991703580065444**  
**Return Receipt Requested**

Mr. David Ohori  
Mining Act Reclamation Program  
Mining and Minerals Division  
Energy, Minerals & Natural Resources Dept.  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Dear Mr. Ohori:

**Re: Application for Release of Financial Assurance and**  
**Termination of Permit for West Little Rock Project**  
**Minimal Impact Exploration Operation, Permit No. GR080EM**

Freeport-McMoRan Tyrone Inc. (Tyrone) requests a release of financial assurance (FA) pursuant to 19.10.12.1210 NMAC and the termination of Mining Act Permit GR080EM for the implementation of the Closeout Plan at West Little Rock Exploration Project Minimal Impact Exploration Operation, Permit No. GR080EM (W. Little Rock).

Tyrone requests that the current FA of \$81,396.00 (eighty-one thousand three hundred ninety-six dollars) be fully released to account for reclamation work completed at W. Little Rock. The distribution of the reduction request to the project is presented in the table below.

<b>2018 Financial Assurance Cost Estimate for Exploration Drilling</b>				
<b>Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Unit Rate (\$/unit)</b>	<b>Total Cost (\$)</b>
Drill Pad Reclamation	acre	0.05	\$ 8,900	\$ 443
Drill Road Reclamation	acre	0.92	\$ 8,900	\$ 8,152
Plug and Abandon Exploration Drill Holes	ft.	5,200	\$ 14	\$ 72,800
<b>Total</b>				<b>\$ 81,396</b>

Tyrone has met all the requirements specified in permit GR080EM. This request includes all the information required by the New Mexico Mining Act rules for a release of FA. Attachments are provided that contain the following information:

Mr. David Ohori  
October 28, 2019  
Page 2

Attachment A: This attachment contains information to help the reviewer understand the scope of work that has been completed through 2019 (including acres reclaimed and other pertinent construction facts).

Attachment B: Electronic Copy of Application Materials (provided on CD).

There would be no remaining FA for W. Little Rock if this request is approved with no changes. Tyrone requests that Permit GR080EM be terminated and the FA of \$81,396.00 be released. The FA release will terminate the irrevocable standby letter of credit (ILOC) No. HACH5785100S for \$81,396.00.

Tyrone is ready to schedule the required inspection of the Closeout measures completed in relation to this application with the Department in the near future. Tyrone appreciates your consideration of these issues. Please contact Ms. Mandy Lilla at (575) 912-5388 if you require any additional information.

Sincerely,



Thomas L. Shelley  
Reclamation Manager  
Environmental/Sustainable Development

TLS:ml  
Attachments  
20191028-101

c: Holland Shepherd - MMD  
Fernando Martinez - MMD  
David Ohori - MMD

## **Appendix A**

### **Reclamation of W. Little Rock**

## Project Completion Facts

Project Name: **W. Little Rock Exploration Project**

Construction/Activity Start Date: November 2018

Construction/Activity Completion Date: December 2018

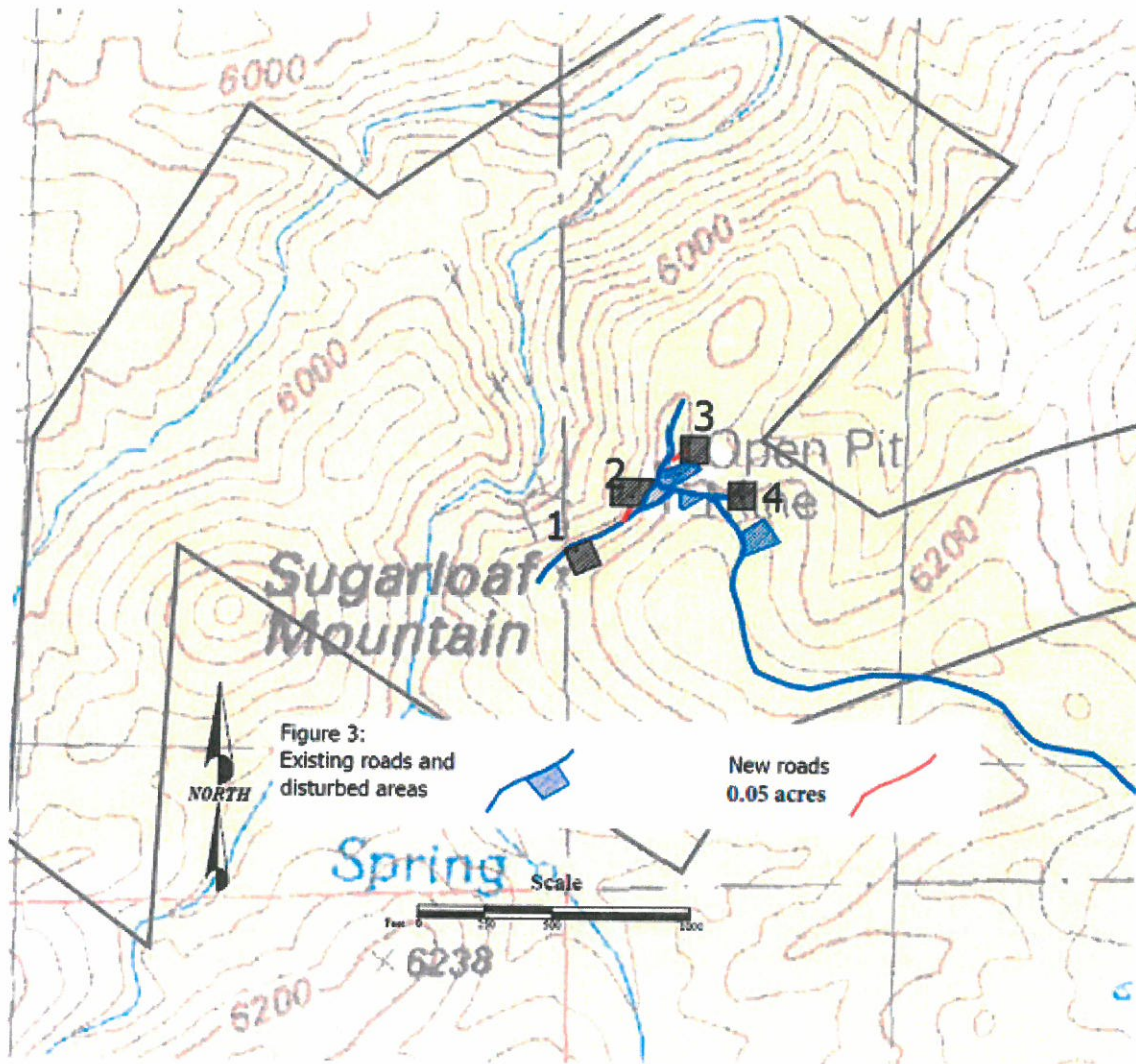
Area Completed/Affected: 0.97 acres

# Exploration Boreholes & Pads & Sumps Closed: 4

Linear Feet of Roads Completed: 145 feet of modified existing and new constructed roads

Description of Work Completed:

- Regraded /sloped the exploration roads and pads (including sumps) to achieve a stable surface and remove hazards to humans and wildlife
- Restoring area to approximate original condition
- Reseeding by broadcasting the approved seedmix
- Placement of waterbars structures or other appropriate measures to reduce head-cutting adjacent to roads and to prevent roadways from channelizing surface flow.
- Plugging and abandonment of up to 4 boreholes, utilizing a neat cement slurry placed in drill holes from bottom up to approximately 2 feet of the original ground surface. The remaining 2 feet of drill hole was backfilled with topdressing from above the cement to the original ground surface.



**Table 1: Drill Pad Sizes**

Drill Pad 1: 0.23 acres	Drill Pad 3: 0.23 acres
Drill Pad 2: 0.23 acres	Drill Pad 4: 0.23 acres

**Figure 1: Map of W. Little Rock**



**Photo 1: Reclaimed W. Little Rock Drill Site 2, 9/16/19**

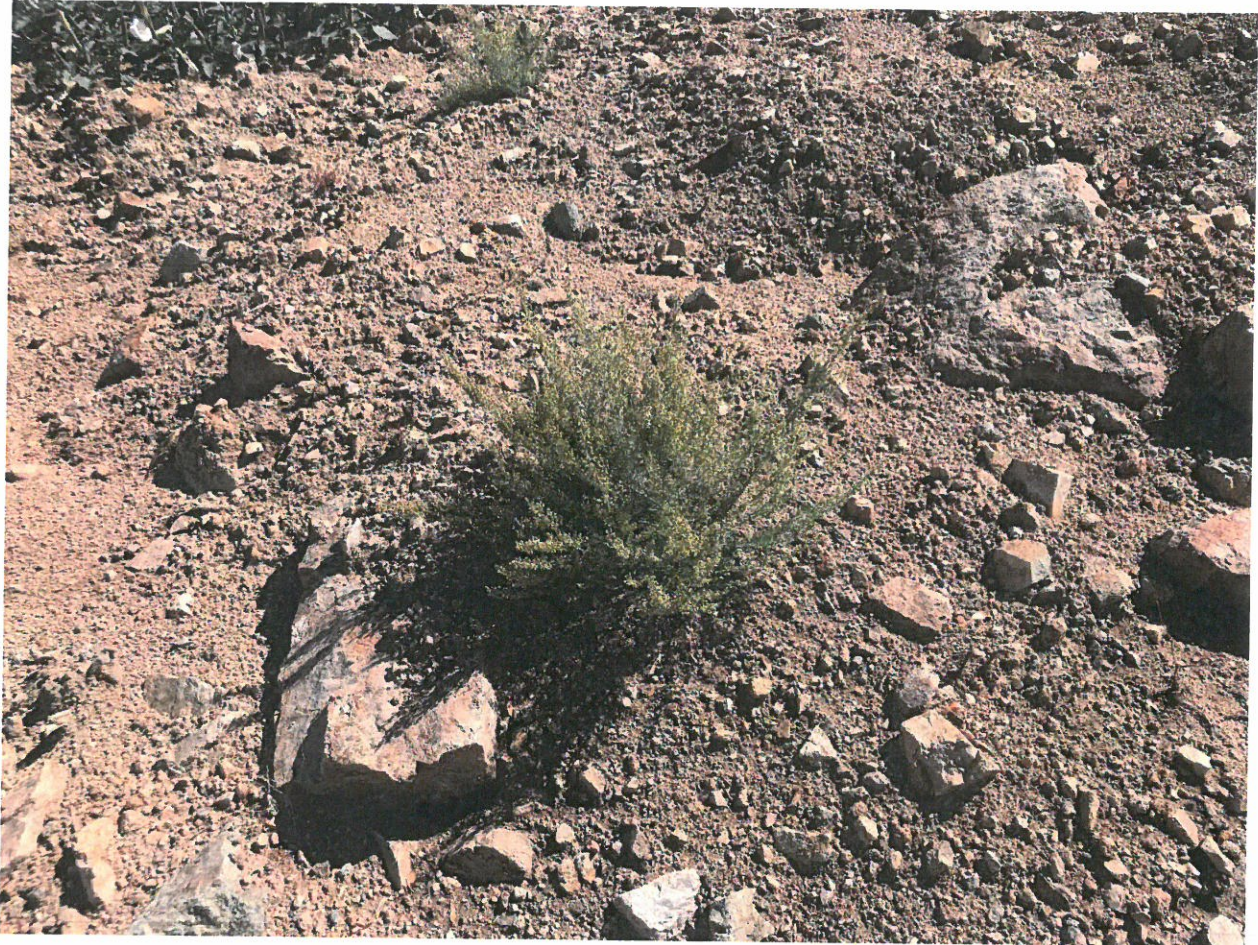


**Photo 2: Reclaimed W. Little Rock Drill Site 2, 9/16/19**



**Photo 3: W. Little Rock Drill Site 4, 9/16/19**





**Photo 4: Drilling Exploration Borehole at Drill Site 4, 9/16/19**

<b>Table 1: Exploration Borehole Information</b>					
DH #	Drilled (Y or N)	Depth of Borehole (ft)	Closed	On Figure 1 & Permitted (Y or N)	State Engineer Well Number
1	N	NA	NA	Y	NA
2	Y	500	Y	Y	GSF-4656-POD-2
4	N	NA	NA	<sup>1</sup> Y	NA
5	Y	475	Y	<sup>2</sup> Y	GSF-4656-POD-4-Site-5

<sup>1</sup>Maps in this application have this location marked as #3.

<sup>2</sup>Maps and photos in this application have this location marked as #4.

**Attachment B:**

**Electronic Copy of Application Materials (provided on CD)**



Tyrone Operations  
P.O. Box 571  
Tyrone, NM 88065

January 3, 2019

**Certified Mail #9171999991703580024182**  
**Return Receipt Required**

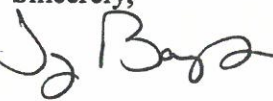
Mr. David Ohori, Permit Lead  
Mining Act Reclamation Program  
Energy, Minerals and Natural Resources Department  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Dear Mr. Ohori:

**Re: Response to Comments on West Little Rock**  
**Exploration Project Minimal Impact Exploration**  
**Application, Permit No. GR080EM Plugging and Abandonment Records**

Freeport-McMoRan Tyrone Inc. (Tyrone) submitted an application for a minimal impact exploration permit to the Mining and Minerals Division (MMD) on September 7, 2018, and it was approved on October 2, 2018 for the West Little Rock Exploration Project (Emma). Per Permit GR0080EM condition 10.DD.2, Tyrone has attached a copy of the drill hole abandonment records for 2 bore holes and an affidavit signed by the New Mexico licensed and bonded driller, for MMD approval.

Tyrone appreciates your timely review and approval of the West Little Rock drill hole abandonment records. Should you have any questions or comments, please contact me at (575) 912-5757.

Sincerely,  


Ty Bays  
Senior Land and Water Resource Analyst

TRB  
Attachments  
20190103-101



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

### I. GENERAL / WELL OWNERSHIP:


State Engineer Well Number: GSF-4656-POD-2  
 Well owner: Freeport-McMoRan Tyrone Mining LLC Phone No.: 575-912-5757  
 Mailing address: P.O. Box 571  
 City: Tyrone State: NM Zip code: 88065

### II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Layne
- 2) New Mexico Well Driller License No.: WD-1728 Expiration Date: 1-31-2020
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Francisco Polanco
- 4) Date well plugging began: 12-12-18 Date well plugging concluded: 12-12-18
- 5) GPS Well Location: Latitude: 32 deg, 39 min, 2.28 sec  
Longitude: 108 deg, 25 min, 25.88 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 500 ft below ground level (bgl),  
by the following manner: \_\_\_\_\_
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 7-23-08
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
 540 feet	2 Feet Portland Cement 5 gallons per 94 lb of cement	570 gallons	562 gallons	Drill pipe	Dry hole. 5.25 inch diameter.

MULTIPLY	BY	AND OBTAIN
cubic feet x	7.4805	= gallons
cubic yards x	201.97	= gallons

**III. SIGNATURE:**

I, Francisco Polanco, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.



Signature of Well Driller

1/3/19

Date



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

**I. GENERAL / WELL OWNERSHIP:**

State Engineer Well Number: GSF-4656-POD-4-Site-5  
Well owner: Freeport-McMoRan Tyrone Mining LLC Phone No.: 575-912-5757  
Mailing address: P.O. Box 571  
City: Tyrone State: NM Zip code: 88065

**II. WELL PLUGGING INFORMATION:**

- 1) Name of well drilling company that plugged well: Layne
- 2) New Mexico Well Driller License No.: WD-1728 Expiration Date: 1-31-2020
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Francisco Polanco
- 4) Date well plugging began: 12-15-18 Date well plugging concluded: 12-15-18
- 5) GPS Well Location: Latitude: 32 deg, 39 min, 2.27 sec  
Longitude: 108 deg, 25 min, 21.39 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 600 ft below ground level (bgl),  
by the following manner: \_\_\_\_\_
- 7) Static water level measured at initiation of plugging: 475 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 7-23-08
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

<u>Depth</u> (ft bgl)	<u>Plugging Material Used</u> (include any additives used)	<u>Volume of Material Placed</u> (gallons)	<u>Theoretical Volume of Borehole/ Casing</u> (gallons)	<u>Placement Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
	2 Feet Portland Cement 5 gallons per 94 lb of cement	675 gallons	674 gallons	Drill pipe	Static water level 475 ft. 5.25 inch diameter.
540 feet					

MULTIPLY	BY	AND OBTAIN
cubic feet x	7.4805	= gallons
cubic yards x	201.97	= gallons

**III. SIGNATURE:**

I, Francisco Polanco, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.



Signature of Well Driller

1/3/19  
Date

**CERTIFICATION**

I, Francisco Polanco, certify that that I am a licensed and bonded driller in the state of New Mexico, the West Little Rock Minimal Impact Exploration Project bore hole numbers 2, 4, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ have been plugged and abandoned in accordance with permit GR080EM Condition 10.DD, and the attached plugging and abandoned records (with my signature) are correct.

[Signature]  
Authorized Representative and Licensed & Bonded Driller

Driller/supervisor  
Title

Layne  
Company Name

The Affidavit of Francisco Polanco was Subscribed and Sworn to before me this 3 day of January, 2019



[Signature]  
Notary Public

My Commission Expires  
December 12, 2021





STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER  
District 3 Office, Deming, NM

John T. Romero, P.E.  
Acting State Engineer

321 West Spruce St.  
Deming, New Mexico 88030  
PHONE: (575) 546-2851  
FAX: (575) 546-2290

February 5, 2019

FILE: GSF-4656

Tyrone Mining, LLC  
c/o Ty Bays  
PO Box 571  
Tyrone, NM 88065

RECEIVED  
FEB 13 2019

BY: .....


Greetings:

Enclosed is your copy of Plugging Records for Well GSF-4656-POD2, which has been accepted for filing.

This is the final filing under Well GSF-4656-POD2.

Sincerely,

Lloyd R. Valentine III  
District 3 Manager

By:   
Jack Barragan  
Water Resource Professional  
Gila-San Francisco Basin

JB:jb  
Encl: Plugging Records  
cc: State Engineer



# PLUGGING RECORD



**NOTE:** A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: GSF-4656-POD-2  
 Well owner: Freeport-McMoRan Tyrone Mining LLC Phone No.: 575-912-5757  
 Mailing address: P.O. Box 571  
 City: Tyrone State: NM Zip code: 88065

## II. WELL PLUGGING INFORMATION:

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- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 7-23-08
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

2009 JAN -7 AM 11:14  
 STATE ENGINEER'S OFFICE

JB





STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER  
District 3 Office, Deming, NM

John T. Romero, P.E.,  
Acting State Engineer

321 W. Spruce Street  
Deming, New Mexico 88030  
PHONE: (575) 546-2851  
FAX: (575) 546-2290

February 4, 2019

FILE: GSF-4656

Tyrone Mining, LLC  
c/o Ty Bays  
PO Box 571  
Tyrone, NM 88065

RECEIVED  
FEB 13 2019

BY: .....

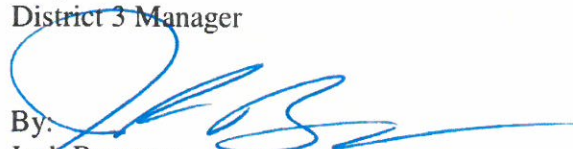
Greetings:

Enclosed is your copy of well record for Monitor Well GSF-4656-POD2, which has been accepted for filing.

Beneficial use of water shall not occur from all wells, unless a permit for a specific use has been issued by the State Engineer.

Sincerely,

Lloyd R. Valentine III  
District 3 Manager

By:   
Jack Barragan  
Water Resource Professional  
Gila-San Francisco Basin

JB:jb  
Encl: Well Record  
cc: State Engineer

2018-14



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO (WELL NO) <b>POD 2 Site 2</b>		WELL TAG ID NO <b>2018-14</b>		OSE FILE NO(S) <b>G5F-4656</b>			
	WELL OWNER NAME(S) <b>Freeport McMoran Tyrone Mining LLC</b>				PHONE (OPTIONAL) <b>575-912-5757</b>			
	WELL OWNER MAILING ADDRESS <b>PO Box 571</b>				CITY <b>Tyrone NM</b>	STATE ZIP <b>88065</b>		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE <b>32</b>	MINUTES <b>39</b>	SECONDS <b>2.28</b>	N * ACCURACY REQUIRED: ONE TENTH OF A SECOND W * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO <b>WD-1728</b>		NAME OF LICENSED DRILLER <b>Francisco Polanco</b>		NAME OF WELL DRILLING COMPANY <b>Layne</b>			
	DRILLING STARTED <b>12/9/18</b>	DRILLING ENDED <b>12/11/18</b>	DEPTH OF COMPLETED WELL (FT) <b>500</b>	BORE HOLE DEPTH (FT) <b>500</b>	DEPTH WATER FIRST ENCOUNTERED (FT) <b>NA</b>			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) <b>NA</b>			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD		ADDITIVES - SPECIFY:					
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	<b>0</b>	<b>500</b>	<b>5.25</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE				WR-20 WELL RECORD & LOG (Version 06/30/17)	
FILE NO. <b>G5F-4656</b>	POD NO. <b>POD-2</b>		TRN NO.		
LOCATION <b>19.15.17.3</b>	WELL TAG ID NO.		PAGE 1 OF 2		

JB





STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER  
District 3 Office, Deming, NM

John T. Romero, P.E.  
Acting State Engineer

321 West Spruce St.  
Deming, New Mexico 88030  
PHONE: (575) 546-2851  
FAX: (575) 546-2290

February 5, 2019

FILE: GSF-4656

Tyrone Mining, LLC  
c/o Ty Bays  
PO Box 571  
Tyrone, NM 88065

RECEIVED  
FEB 13 2019

BY: .....

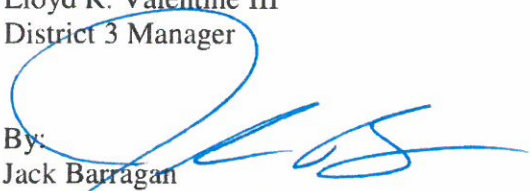
Greetings:

Enclosed is your copy of Plugging Records for Well GSF-4656-POD4, which has been accepted for filing.

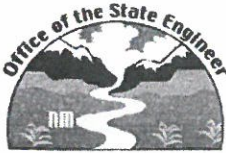
This is the final filing under Well GSF-4656-POD4.

Sincerely,

Lloyd R. Valentine III  
District 3 Manager

By:   
Jack Barragan  
Water Resource Professional  
Gila-San Francisco Basin

JB:jb  
Encl: Plugging Records  
cc: State Engineer



# PLUGGING RECORD



**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: GSF-4656-POD-4-Site-5  
 Well owner: Freeport-McMoRan Tyrone Mining LLC Phone No.: 575-912-5757  
 Mailing address: P.O. Box 571  
 City: Tyrone State: NM Zip code: 88065

## II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Layne
- 2) New Mexico Well Driller License No.: WD-1728 Expiration Date: 1-31-2020
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):  
Francisco Polanco
- 4) Date well plugging began: 12-15-18 Date well plugging concluded: 12-15-18
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- 6) Depth of well confirmed at initiation of plugging as: 600 ft below ground level (bgl),  
by the following manner: \_\_\_\_\_
- 7) Static water level measured at initiation of plugging: 475 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 7-23-08
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

STATE ENGINEER'S OFFICE  
 2019 JAN -7 AM 11:45

JS







STATE OF NEW MEXICO  
OFFICE OF THE STATE ENGINEER  
District 3 Office, Deming, NM

John T. Romero, P.E.,  
Acting State Engineer

321 W. Spruce Street  
Deming, New Mexico 88030  
PHONE: (575) 546-2851  
FAX: (575) 546-2290

February 4, 2019

FILE: GSF-4656

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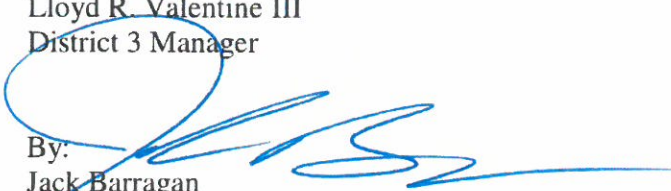
Greetings:

Enclosed is your copy of well record for Monitor Well GSF-4656-POD4, which has been accepted for filing.

Beneficial use of water shall not occur from all wells, unless a permit for a specific use has been issued by the State Engineer.

Sincerely,

Lloyd R. Valentine III  
District 3 Manager

By:   
Jack Barragan  
Water Resource Professional  
Gila-San Francisco Basin

JB:jb  
Encl: Well Record  
cc: State Engineer



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO (WELL NO) <b>POD 4 Site 5</b>		WELL TAG ID NO <b>2018-15</b>		OSE FILE NO(S) <b>GSF-4656</b>		
	WELL OWNER NAME(S) <b>Freeport McMoran Tyrone Mining LLC</b>				PHONE (OPTIONAL) <b>575-912-5757</b>		
	WELL OWNER MAILING ADDRESS <b>PO Box 571</b>				CITY STATE ZIP <b>Tyrone NM 88065</b>		
	WELL LOCATION (FROM GPS)		DEGREES LATITUDE <b>32 39 2.27</b> N	MINUTES <b>108 25 21.39</b> W	SECONDS <b>2.27</b> N <b>21.39</b> W		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						

2. DRILLING & CASING INFORMATION	LICENSE NO. <b>WD-1728</b>		NAME OF LICENSED DRILLER <b>Francisco Polanco</b>			NAME OF WELL DRILLING COMPANY		
	DRILLING STARTED <b>12/13/18</b>	DRILLING ENDED <b>12/15/18</b>	DEPTH OF COMPLETED WELL (FT) <b>600</b>	BORE HOLE DEPTH (FT) <b>600</b>	DEPTH WATER FIRST ENCOUNTERED (FT) <b>520'</b>			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT)			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	<b>0</b>	<b>600</b>	<b>5.25</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE

FILE NO. <b>GSF-4656</b>	POD NO. <b>POD 4</b>	WR-20 WELL RECORD & LOG (Version 06/30/17)
LOCATION <b>19.15.17.3</b>	WELL TAG ID NO.	TRN NO.
		PAGE 1 OF 2

JS





Granite Seed - Denver  
490 East 76th Ave., Unit A  
Denver, CO 80229

3-38213

Date Shipped:

Sold To:  
Rocky Mountain Reclamation  
Amber Bruner  
P.O. Box 1695  
Laramie, WY 82073-1695

Project Name: Tyrone  
Mix Name: Tyrone  
Seed Mix Number: 191691

### Letter of Certification

This memo is written to certify that this seed mix is true to label and has been duly tested by a fully accredited seed testing laboratory using rules sanctioned by the Association of Official Seed Analysts. The specifications of the seed used in the mix are as follows:

Common Name	Variety	Origin	Lot #	Purity	G+D+H	%PLS
Triticale	Luoma	CAN	0500-17CF02C	99.58	94 + 0 = 94	93.61
Clover, Purple Prairie	Bismarck	WA	NBS-MS17-BIS-1	98.78	60 + 30 = 90	88.90
Sideoats grama	Pierre	CAN	SOG-15-721	98.02	51 + 42 = 93	91.16
Indian ricegrass	Nezpar	WA	1634-1	99.72	97	96.73
Globemallow, Scarlet	VNS	UT	V-105754	94.08	83	78.09
Blue grama	Bad River	MN	E5559	87.68	96 + 0 = 96	84.17
Sand dropseed	VNS	CO	V-87163	96.48	4 + 92 = 96	92.62

Lot #	Number of Bags	Bulk Lbs. Per Bag
	2	50 full
	1	.11 partial

Common Name	Lot #	Total Bulk Lbs.	Total PLS Lbs.	% Total Bulk Lbs.
Blue grama	E5559	5.94	5.00	5.93
Clover, Purple Prairie	NBS-MS17-BIS-1	11.25	10.00	11.24
Globemallow, Scarlet	V-105754	6.40	5.00	6.40
Indian ricegrass	1634-1	10.78	10.00	10.77
Sand dropseed	V-87163	1.35	1.25	1.35
Sideoats grama	SOG-15-721	10.97	10.00	10.96
Triticale	0500-17CF02C	53.42	50.00	53.36
<b>Grand Total Lbs:</b>		<b>100.11</b>	<b>91.25</b>	

If you have any questions, please call.

Sincerely,  
Granite Seed - Denver

*Miranda McCutchen*

From:  
Granite Seed - Denver  
490 East 76th Ave., Unit A  
Denver, CO 80229

## CERTIFIED COPY OF SEED ANALYSIS

Separate Seed Certification  
3-38213

**Kind and Variety: TRITICUM AESTIVUM X SECALE CEREALE - TRITICALE - LUOMA**

Lot Number: 0500-17CF02C	Origin: CAN	Laboratory Names:
Pure Seed: 99.58 %	Germ % + Hard % 94 + 0 = 94-G	Montana State Seed Lab
Other Crop: 0.00 %	Total Viable %: 94.00	(Purity: Montana State Seed Lab)
Inert Matter: 0.42 %	Date Tested: 12-DEC-17	
Weed Seed: 0.00 %	Prohibited or Restricted Noxious Weed: None	
Pure Live Seed: 93.61 %		

**Kind and Variety: DALEA PURPUREUM VAR. PURPUREUM - CLOVER, PURPLE PRAIRIE - BISMARCK**

Lot Number: NBS-MS17-BIS-1	Origin: WA	Laboratory Names:
Pure Seed: 98.78 %	Germ % + Hard % 60 + 30 = 90-P&TZ	WA Dept. of Agriculture
Other Crop: 0.00 %	Total Viable %: 90.00	
Inert Matter: 1.09 %	Date Tested: 21-NOV-17	
Weed Seed: 0.13 %	Prohibited or Restricted Noxious Weed: None	
Pure Live Seed: 88.90 %		

**Kind and Variety: BOUTELOUA CURTIPENDULA - SIDEOATS GRAMA - PIERRE**

Lot Number: SOG-15-721	Origin: CAN	Laboratory Names:
Pure Seed: 98.02 %	Germ % + Hard % 51 + 42 = 93-G	NST Labs
Other Crop: 0.00 %	Total Viable %: 93.00	(Purity: SeedCheck Technologies, Inc)
Inert Matter: 1.98 %	Date Tested: 11-SEP-18	
Weed Seed: 0.00 %	Prohibited or Restricted Noxious Weed: None	
Pure Live Seed: 91.16 %		

**Kind and Variety: ACHNATHERUM HYMENOIDES - INDIAN RICEGRASS - NEZPAR**

Lot Number: 1634-1	Origin: WA	Laboratory Names:
Pure Seed: 99.72 %	Germ % + Hard % 97 -TZ	Montana State Seed Lab
Other Crop: 0.04 %	Total Viable %: 97.00	(Purity: NST Labs)
Inert Matter: 0.24 %	Date Tested: 07-DEC-17	
Weed Seed: 0.00 %	Prohibited or Restricted Noxious Weed: None	
Pure Live Seed: 92.74 %		

**Kind and Variety: SPHAERALCEA COCCINEA - GLOBEMALLOW, SCARLET - VNS**


Lot Number: V-105754	Origin: UT	Laboratory Names:
Pure Seed: 94.08 %	Germ % + Hard % 83 -P&TZ	NST Labs
Other Crop: 0.00 %	Total Viable %: 83.00	
Inert Matter: 5.70 %	Date Tested: 05-JUL-18	
Weed Seed: 0.22 %	Prohibited or Restricted Noxious Weed: None	
Pure Live Seed: 78.09 %		

**Kind and Variety: BOUTELOUA GRACILIS - BLUE GRAMA - BAD RIVER**

Lot Number: E5559	Origin: MN	Laboratory Names:
Pure Seed: 87.68 %	Germ % + Hard % 96 + 0 = 96-G	NST Labs
Other Crop: 0.08 %	Total Viable %: 96.00	(Purity: NST Labs)

Granite Seed - Denver certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Certified By: Miranda McCutchen

Signature:  Date: 10 / 3 / 18

From:  
Granite Seed - Denver  
490 East 76th Ave., Unit A  
Denver, CO 80229

### CERTIFIED COPY OF SEED ANALYSIS

Separate Seed Certification  
3-38213

Inert Matter: 12.20 %  
Weed Seed: 0.04 %  
Pure Live Seed: 84.17 %

Date Tested: 13-DEC-17  
Prohibited or Restricted Noxious Weed: None

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**Kind and Variety: SPOROBOLUS CRYPTANDRUS - SAND DROPSEED - VNS**

Lot Number: V-87163  
Pure Seed: 96.48 %  
Other Crop: 0.00 %  
Inert Matter: 3.52 %  
Weed Seed: 0.00 %  
Pure Live Seed: 92.62 %


Origin: CO  
Germ % + Hard % 4 + 92 = 96-G&TZ  
Total Viable %: 96.00  
Date Tested: 24-APR-18  
Prohibited or Restricted Noxious Weed: None

Laboratory Names:  
NST Labs  
(Purity: NST Labs)

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Granite Seed - Denver certifies that this analysis accurately represents the original copy of seed analysis and, where applicable, all testing has been conducted by a certified Seed Technologist using the sanctioned rules established by the Association of Official Seed Analysts.

Certified By: Miranda McCutchen

Signature:  Date: 10 / 3 / 18

# CERTIFICATION OF MATERIALS

WYDOT Project No. \_\_\_\_\_

Location: Tyrone \_\_\_\_\_

(Date - Sequence Rec'd -Inspector's Initials)

The Granite Seed - Denver \_\_\_\_\_ 490 East 76th Ave., Unit A \_\_\_\_\_ Denver, CO 80229 \_\_\_\_\_  
(Name of Manufacturer/Supplier) (Address) (City, State)

has furnished to Rocky Mountain Reclamation \_\_\_\_\_ P.O. Box 1695 \_\_\_\_\_ Laramie, WY \_\_\_\_\_  
(Name of Contractor) (City, State)

the following materials for use in the construction of the above referenced project.

WYDOT VARIETY	Product Description SEPARATES	Quantity PLS #	Unit	Manufacturer BULK #	Applicable Specification ITEM NUMBER
Bad River	Blue grama	5.00		5.94	E5559
Pierre	Sideoats grama	10.00		10.97	SOG-15-721
	Sand dropseed	1.25		1.35	V-87163
Nezpar	Indian ricegrass	10.00		10.78	1634-1
Bismarck	Clover, Purple Prairie	10.00		11.25	NBS-MS17-BIS-1
	Globemallow, Scarlet	5.00		6.40	V-105754
Luoma	Triticale	50.00		53.42	0500-17CF02C

(Mill Test Reports, Heat Numbers, Chemical Analysis Reports, Coating Thickness Reports, Seed Analysis Reports, Transit Certificates, etc. must accompany this form where applicable.)

## Statement of Certification

*I hereby certify that the above listed items of materials do meet the requirements as set forth in the plans and/or specifications.*

By: Miranda McCutchen \_\_\_\_\_ Title: \_\_\_\_\_

*Miranda McCutchen*  
 \_\_\_\_\_  
(Signature)

Date: Oct. 03, 2018 \_\_\_\_\_

**Note:** This certification and attachments must be furnished in triplicate to the contractor who, in turn, must submit two copies to the engineer before the material can be incorporated into this project.

Distribution:

White: Materials Laboratory

Yellow: Resident Engineer

Pink: Contractor

Gold: Manufacturer/Supplier

Copies of this form are available from:

WYDOT Purchasing Program

Attn: Storeroom Manager

P.O. Box 1708

Cheyenne, WY 82003-1708







Granite Seed - Denver  
 From: 490 East 76th Ave., Unit A  
 Denver, CO 80229

Mix Name: **Tyrone** **3-38213**  
 Mix #: **191691** **Tyrone**

% Pure	Common Name	Variety	G + D or H	Origin
53.13	TTRITICALE	Luoma	94 + 0 = 94	CAN
11.10	ICLOVER, PURPLE PRAIRIE	Bismarck	60 + 30 = 90	WA
10.74	INDIAN RICEGRASS	Nezpar	93 -TZ	WA
10.74	SIDEOATS GRAMA	Pierre	51 + 42 = 93	CAN
6.02	GLOBEMALLOW, SCARLET	VNS	83 -TZ	UT
5.20	BLUE GRAMA	Bad River	95 + 2 = 97	MN
1.30	SAND DROPSEED	VNS	4 + 92 = 96	CO

0.01 Other Crop Date Tested: 21-Nov-17  
 1.73 Inert Matter Hard Seed: 9.33  
 0.03 Weed Seed Noxious Weed: echinocloa crusgalli

Net Weight: 0.10 Lbs. PLS 0.11 Lbs. Bulk

Coverage: 0.110 Bulk #

NOTICE TO BUYER LIMITATIONS OF WARRANTIES AND REMEDIES

Crop yield and quality are dependent upon many factors beyond the control of the labeled seller and NO WARRANTY is made for crop yield and quality. The labeled seller warrants that all seed sold has been labeled as required under applicable state and federal seed law and that the seed conforms to the label description, within recognized tolerances. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL.

No claim shall be asserted against the labeled seller unless Buyer reports to the labeled seller within a reasonable period after discovery (not to exceed thirty days), any condition that might lead to a complaint. BUYER'S EXCLUSIVE REMEDY FOR ANY CLAIM OR LOSS RESULTING FROM BREACH OF WARRANTY, BREACH OF CONTRACT OR NEGLIGENCE (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES) SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE.

By acceptance of the seed, Buyer agrees the terms and conditions stated above are a benefit to the bargain and constitute the entire agreement between Buyer and the labeled seller. Buyer shall return the original unopened seed package to the labeled seller within twenty days of receipt for a refund of the purchase price if not accepted under these terms.

NOTICE: REQUIRED ARBITRATION / CONCILIATION / MEDIATION

The seed laws of several states including Arkansas, California, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Minnesota, Mississippi, Montana, North Dakota, South Carolina (Section 46-21-260), South Dakota, Texas and Washington require arbitration, conciliation or mediation of disputes involving alleged defective seed before certain legal actions may be maintained against a seller. North Carolina offers an alternative to court action that allows claims to be investigated and heard before the Special Seed Board. A complaint (sworn for AR, CO, FL, IL, IN, MN, MS, MT, NC, SC, TX, WA; signed only CA, GA, ID, ND, SD) must be filed with the Department of Agriculture or Seed Commissioner (IN) or State Plant Board (AR) or Commissioner of Agriculture (NC) within such time to permit an inspection of seed, crops or plants (by an Arbitration Committee - AR, ID, MS, SC). In NC, failure to follow this procedure will limit the amount of damages recoverable. Certified copy of complaint must be sent by registered mail to the labeled seller as provided in individual state law. Information about these requirements may be obtained from the state Department of Agriculture.

Rocky Mountain Reclamation  
 1254 N. Second St.  
 Laramie, WY 82070