Part 3 MINIMAL IMPACT EXPLORATION OPERATION

PERMIT APPLICATION

Accompanying instructions for this permit application are available from MMD, and on MMD webpage:

http://www.emnrd.state.nm.us/MMD/MARP/MARPApplicationandReportingForms.htm

Send 6 copies of the completed application to:

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Director
Mining and Minerals Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505
Telephone: (505) 476-3400

Webpage: www.emnrd.state.nm.us/MMD/index.htm

CHECK OFF LIST TO DETERMINE YOUR PROJECT'S STATUS AS A MINIMAL IMPACT EXPLORATION OPERATION:

Yes	√ No	My project will exceed 1000 cubic yards of excavation, per permit.
Yes	✓No	Surface disturbances for constructed roads, drill pads and mud pits <u>will</u> <u>exceed 5 acres</u> total for my project.
Yes	√ No	My project is located in or is expected to have a direct surface impact on wetlands, springs, perennial or intermittent streams, lakes, rivers reservoirs or riparian areas.
Yes	√ No	My project is located in designated critical habitat areas as determined in accordance with the federal Endangered Species Act of 1973 or in areas determined by the Department of Game and Fish likely to result in an adverse impact on an endangered species designated in accordance with the Wildlife Conservation Act, Sections 17-2-37 through 17-2-46 NMSA 1978 or by the State Forestry Division for the Endangered Plants Act, section 75-6-1 NMSA 1978.
∐Yes	√ No	My project is located in an area designated as Federal Wilderness Area,

		Wilderness Study Area, Area of Critical Environmental Concern, or an area within the National Wild and Scenic River System.
Yes	√ No	My project is located in a known cemetery or other burial ground.
Yes	√ No	My project is located in an area with cultural resources listed on either the National Register of Historic Places or the State Register of Cultural Properties.
∐Yes	√ No	My project will or is expected to have a direct impact on ground water that has a total dissolved solids concentration of less than 10,000 mg/L, except exploratory drilling intersecting ground water may be performed as a minimal impact operation.
Yes	√ No	My project is expected to use or using cyanide, mercury amalgam, heap leaching or dump leaching in its operations.
Yes	√ No	My project is expected to result in point or non-point source surface or subsurface releases of acid or other toxic substances from the permit area.
☐ Yes	√ No	My project requires a variance from any part of the Mining Act Rules as part of the permit application.
-	answer <u>yes</u> to exploration o	o any of the above questions, your project <u>does not</u> qualify as a minimal peration.
Confid	lential Infor	mation
☐ Yes	i ✓ No	Is any of the information submitted in this application considered by the applicant to be confidential in nature? If yes, please provide this information separately and marked as "confidential."
Timeli	ne	
		applications must be provided no less than 45 days prior to the anticipated tions desired by the applicant.
		olications shall be filed at least 30 days preceding expiration of the current nits are valid for one year.
•	Approved pe	rmit is valid for one year from the date of approval.

SECTION 1 – OPERATOR INFORMATION (§304.D.1)

Project Na	ame: Apache Hills	
	own To Project: <u>Hachita</u>	
Applicant l	Name and Contact Information (enti	ty obligated under the Mining Act):
Name:	1077615 US LLC - Scott Burket	t
Address:	408 Sylvia Lake Rd , Gouverne	ur, NY 13642
Office Pho	one: 315-535-3253	Cell Phone: 303-870-3692
Fax Numb	per:	Email: sburkett@titanminingcorp.com
Name of C	On-Site Contact, Representative, or	Consultant:
Name:	Jerry Willis	
Address:	14 Tavalopa, Los Lunas, NM 8	7031
Office Pho	one:	Cell Phone: 505-977-5945
Fax Numb	per:	Email: jerry_minemappers@yahoo.com

SECTION 2 - RIGHT TO ENTER INFORMATION (§302.D.1)

A. Describe or attach copies of documents that give the applicant the right to enter the property to conduct the exploration and reclamation, include: lease agreements, access agreements, right of way agreements, surface owner agreements, and claim numbers, if applicable.

Unpatented mining claims AH1-AH12, AH14-AH21 and AH23-AH94. Recorded with Hidalgo County and filed with the BLM as Serial numbers NMMC199010-NMMC199101.

Attachment		
B. List the names and address area. If the mineral is federathe claim holder or lease h	sses of surface and mineral ownership weral mineral, indicate as federal mineral, older.	vithin the proposed permit but provide the name of
Surface Estate Owner(s):		
Name	Address	Phone #
■U.S. BLM	Las Cruces District Office	575-525-4337
, v	1800 Marquess St.	1/2
U.S. Forest Service	Las Cruces, NM. 88005	
State of NM		
Private/Corporate	¥	
Name:		
Other		
Name:	×	

Lease Holder(s) of Surface Estate (if applicable): Name Address Phone # **Mineral Estate Owner(s):** Address Phone # Name ■ Bureau of Land Management US Forest Service State of NM Claim/Lease Holder 408 Sylvia Lake Rd 315-535-3253 Name: 1077615 US LLC Gouverneur, NY 13642 Claim Numbers: NMMC199010-NMMC199101 Claim/Lease Holder

Claim Numbers: _____

Other

C. Has a Cultural Resource Survey been performed on the site? ☐ Yes ■ No
If yes, please provide the author, title, date and report number, and include a copy of the survey with this application, if possible:
Attachment
D. Has a wildlife survey or vegetation survey been performed for the permit area?
Yes No If yes, please provide the author, title, date and report number, and include a copy of the survey with this application, if possible:
Attachment

SECTION 3 – Maps and Project Location (§302.D.2)

Township	28 South	Range	<u>14</u>	West	Section 2	29, 30, 33, 34
Townshi	ρ	Range	·		Section _	
Townshi	p	Range	·		Section _	
List the drill I	hole/exploration n	name and the Gl	PS co	ordinates fo	r each site.	
I.D. Number	Northing / Latitude	Easting / Longitude		I.D. Number	Northing / Latitude	Easting / Longitude
PRC-02, 35 PRC-03, 35 PRC-04, 35 PRC-06, 35 PRC-06, 35 PRC-09, 35 PRC-09, 35 PRC-11, 35 PRC-12, 35 PRC-12, 35 PRC-14, 35 PRC-15, 35 PRC-16, 35 PRC-16, 35	24708, 758475 24815, 758610 24725, 758300 24825, 758315 24840, 757815 24950, 757775 24950, 757900 24725, 758060 24850, 757700 24975, 758060 24975, 757565 25105, 757710 26550, 754425 26675, 754600 26400, 754800 26425, 755175 26300, 755325 26025, 755825		+			
Coordinate s	system used to co	ollect GPS data	points	S:		
	Geographic JTM Zone 13 (or 84	[12) [□ NA		aphic one 13 (or 12)	
Attachment	(for lis	ting additional b	oreho	oles)		
B. Maps (se	ee application for	m instructions fo	or exa	mples of ma	ps to be included)):

A. Project Location:

	Are topographic maps included with the application that show the following items:
	■ Yes – The boundary of the proposed exploration project Permit Area
	Yes - The proposed exploration locations (i.e., borehole locations)
	■ Yes – Existing roads, new roads and overland travel routes
	■ Yes □ N/A - Areas of proposed road improvement
Att	rachments 1-5
	Are maps or figures included with the application showing the approximate dimensions and locations of drill pads and other disturbances:
	■ Yes – Drill pad dimensions and constructed drill pad locations
Att	eachments 1-5
C.	Provide detailed driving directions to access the site:
	South on NM 19 from Exit 49 on I-10E to Hachita, NM for approximately 19 miles. East on NM 9 to NM 81, approximately 0.5 miles. South on NM 81 to unimproved BLM road, approximately 4 miles. East on unimproved BLM Road to drill sites, approximately 3 miles, near Apache Peak. Roads are unnamed and not numbered.

SECTION 4 – EXPLORATION DESCRIPTION (§302.D.3 & 4)

A.	Anticipated exploration: Start Date: 21 May 2018 End Date: 1 Sept 2018
В.	List the mineral(s)/element(s) to be explored for: Cu, Au
C.	Proposed method(s) of exploration:
	Air drilling (air rotary, coring, etc.):
	# of holesDepth (ft.)Diameter (in.)
	# of drill padsLength (ft.) 10Width (ft.)
	Will drill pads be graded/bladed or overland: Graded/bladed Overland
	Will drill pads need some mechanical leveling (grading/blading): ☐ Yes ☐ No
	Approx. Weight of Drill Rig (lbs.) 9,000 Number of Axles: Trackmnt
	Total length of drill stem that can be carried on the rig:
	Is a support pipe truck anticipated? Yes No Weight (lbs.)
	Weight of support compressor (lbs.):Trailer mounted?
	Anticipated Drilling Contractor: Godbe Drilling LLC License No. WD-1677
	Mud/fluid drilling:
	18 # of holes 500 Depth (ft.) 4 Diameter (in.)
	# of drill padsLength (ft.)Width (ft.)
	Will drill pads be graded/bladed or overland: Graded/bladed Overland
	Will drill pads need some mechanical leveling (grading/blading): ■ Yes □ No
	Will a closed loop system be used or will mud/fluid pits be used? Mud/fluid pits

If mud/fluid pits are proposed:
18 # of pits 20 Length (ft.) 10 Width (ft.) 5 Depth (ft.)
Anticipated excavating equipment: Rubber tired or tracked backhoe
How will excavating equipment be transported to the site (i.e., driven, low-boy, etc.):
Low-boy to convenient and safe offloading site, then driven.
Will mud pits be lined?: ■ Yes □ No
If yes, proposed material to line the mud pits: Heavy gauge plastic sheeting
Approx. Weight of Drill Rig (lbs.) 9,000 Number of Axles: Trackmnt
Anticipated Drilling Contractor: Godbe Drilling LLC License No. WD-1677
Test pits / exploratory trenches:
of pitsDepth (ft.)Depth (ft.)
Anticipated excavating equipment:
How will excavating equipment be transported to the site (i.e., driven, low-boy, etc.):
Other methods of exploration (i.e., cuts, shafts, tunnels, adits, declines, blasting etc.). Indicate method and details:
Mineral Exploration diamond core drilling.
TOTAL ACREAGE TO BE DISTURBED DUE TO DRILL PADS =26acres (to convert to acres, multiply total square footage of drill pads by 0.0000229)

	agre activ	is exploration project is forces to perform a gamma ractities. Applicant/Owner/Operto pre-exploration levels.	diation survey at erator agrees to	each drill site prior to, restore gamma radiati	and after, exploration
		excess drill cuttings be bur t each drill pad location		ite location or within a gle disposal pit	single disposal pit?
	It	f a <u>single disposal pit</u> is pro	pposed, please p	rovide the following:	
		Description or GPS coordin	ates of the propo	sed cuttings disposal p	oit location:
		Dimensions of the single pr	oposed cuttings	disposal pit (length, wid	dth, and depth):
	_	Length (ft.)		Width (ft.)	Depth (ft.)
TC	TAL	ACREAGE TO BE DIS	TURBED DUE	TO DISPOSAL PIT =	= N/A acres
		vert to acres, multiply total			
E.	Othe	er Supporting Equipment (c	heck all that app	ly):	
		4x4 Trucks/Vehicles	Quantity:	2	
		Water Truck	Weight (lbs.):		
		Geophysical Truck	Weight (lbs.):	10,000	
		Pipe Truck (rig support)	Weight (lbs.):	16 000	
		Bulldozer		Allis Chalmers 7	
		Backhoe		John Deere 710	
		Trackhoe	Туре:		
		Scaper/Grader	Type:	-	
		Trailers	Quantity/Type:		
		Portable Toilet	Quantity:	1	
		Other	List:		

D. Disposal of drill cuttings

F. Roads and Overland Travel:

List of <u>new</u> roads to be constructed for this exploration project:

Description of NEW Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
Temporary access for tracked drill rig. (Total)	4420	10	1.01
Equipment Staging Area	25	25	.01
TOTAL ACRES DISTURBED BY NEW ROAD	CONSTRU	JCTION :	1.02

Describe how new roads will be constructed:

List for extension or widening of existing roads:

Description of Modification to EXISTING Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
General clean-up and repair of washouts. (Totals)	1185	10	.27
TOTAL ACRES DISTURBED BY ROAD	IMPROVE	MENTS:	0.27

Describe how existing roads will be extended or widened: Not planned nor anticipated.

¹⁾ Routes marked with survey flags. 2) surface smoothed to allow safe passage of tracked drill rig and 4-wheel drive support vehicles. 3) Temporary sump excavated within footprint of drill pad.

List for routes of overland travel:

Description of OVERLAND TRAVEL Routes	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
Temporary access for tracked drill rig. (Totals)	110	10	.03
TOTAL ACRES DISTURBED BY OVE	RLAND T	RAVEL:	0.03

G. Support Facilities

Describe (location and size) any support facility disturbances (equipment staging, equipment and material storage and/or lay down areas, vehicle parking, temporary housing and/or trailers) to be created or situated on the site during exploration operations.

See Figure 1-2 for equipment staging area location. Area of staging facility is approximately at the intersection of two secondary roads. Area will be 25ft x 25ft = .01 Acres

H. **TOTAL ACREAGE TO BE DISTURBED BY PROJECT =** 1.58 **acres** (include all disturbed acreage from drill pads, cuttings disposal pit, new roads, improved roads and overland travel routes)

SECTION 5 - CHEMICAL USE (§302.D.4)

A. Check any and all chemicals that will be used for this project.

Drilling Mud (i.e., EZ Mud)	Type/Quantity:	EZ Mud, Bentonite Gel (varies v
Diesel Fuel	Quantity:	45-50 Gallons per 12 hour shift
Down-hole Lubricants	Type/Quantity:	
Lost Circulation Materials	Type/Quantity:	Shredded Paper (varies with for
Oils/Grease	Quantity:	As needed
Gasoline	Quantity:	
Hydraulic Fluid	Quantity:	As needed
Ethylene Glycol	Quantity:	
Cement	Type/Quantity:	Top 2' of holes
Water	Source:	12,000 gal/day
Bentonite	Quantity:	Varies with formation
Fertilizer	Type/Quantity:	
Other	Type/Quantity:	

B. Describe, in detail, a plan for the containment, use and disposal of all chemicals listed above:

All Flammables to be placed in clearly marked and contained flam-bin, these include flat steel horse troughs. Water will be stored in plastic storage tanks (1500 gallon & 2800 gallon).

C. Describe where equipment fueling/refueling will occur:

The drill will be fueled at each hole location. The drill will be lined with heavy ROC plastic. All fueling and possible leak points will be lined with absorbent diaper. The drill will be fueled using a hose from a tank located in the pickup bed and pumped directly into drill rig tank.

D. Describe how hazardous material spills/leaks will be handled:

A spill kit will be at each drilling location. This includes a 55-gal. drum, absorbent diaper material, shovel and 5 gallon plastic bucket. If a spill happens all personnel is trained in proper clean-up. Absorbent diaper material is first placed on top of the spill, all spilled fluid is absorbed by diaper material, diaper material is then placed in 55-gal containment drum. All remaining spilled material shall be shoveled and placed in 55-gal. drum. Ground will be shoveled to a depth of 1' below initial saturation level. 55-gal. drum to be hauled off location to proper waste disposal facility.

E.	identity sp	ill cleanup materials that will be kept on-site (check all that apply):
		Bentonite clay or cat litter
		Adsorbent pads, rolls, mats, socks, pillows, dikes, etc.
		Drum or barrel for containing contaminated soil/adsorbent materials
		Other/list:
		Other/list:
		Other/list:
F.	immediat	/owner/representative agrees to immediately notify the State of New Mexicology of any spills of hazardous materials (see page 1 of this application for phone to notify):

SECTION 6 – GROUNDWATER/SURFACE WATER INFORMATION (§302.D.5)

A.	Provide an estimate of depth to ground water and the total dissolved solids (TDS) concentration.
	Depth to groundwater (ft.): 40 - 400 TDS concentration (mg/L): No data
	Describe the source of this information: Local rancher reports 40 ft. DTW. The two wells found in NM Office of the State Engineer water column report an average of 400 ft. in nearby township and range.
В.	Will dewatering activities be conducted: ☐ Yes ■ No
	If yes, please describe:
C.	Is groundwater anticipated to be encountered during exploration: ■ Yes □ No
	If <u>YES</u> :
	Have you completed Form WR-07 (Application for permit to drill a well with no consumptive use of water) and mailed it to the District Office of the State Engineer?
	Have you completed Form WD-08 (Well plugging plan of operations) and mailed it to the District Office of the State Engineer?
	Attachment 6 (copies of the completed WR-07 and WD-08 forms)
D.	Exploration Borehole Abandonment
	Dry Boreholes
	Dry hole abandonment (option 1): 100% bentonite pellets/chips (i.e. HOLEPLUG® manufactured by Baroid Industrial Products), dropped from surface then hydrated in place according to the manufacturer's recommendations, emplaced from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.

	<u>Dry hole abandonment (option 2):</u> Neat cement slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
	<u>Dry hole abandonment (option 3):</u> Cement + 6% bentonite slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
	<u>Dry hole abandonment (option 4):</u> High-density bentonite clay (≥ 20% active solids; i.e. QUIK-GROUT® manufactured by Baroid Industrial Products), mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.
	<u>Dry hole abandonment (option 5):</u> Other materials / describe and justify use:
We	et Boreholes
	Wet hole abandonment (option 1): Neat cement slurry, mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 2 feet of the original ground surface, followed by 2 feet of topsoil/topdressing.
	Wet hole abandonment (option 2): High-density bentonite clay (≥ 20% active solids; i.e. QUIK-GROUT® manufactured by Baroid Industrial Products), mixed according to the manufacturer's recommendations, emplaced with a tremie pipe from total depth to within 12 feet of the original ground surface, followed by 10 feet of neat cement, followed by 2 feet of topsoil/topdressing.
	Wet hole abandonment (option 3): Other sealing material approved by the Office of the State Engineer. Describe and include well plugging plan approval by the State Engineer:
an	plicant agrees to contain any water produced from the exploration borehole at the drill site dacknowledges that discharge of this water to a watercourse may be a violation of the deral Clean Water Act: I Yes No

D.

E.	ls any drilling proposed to occur <u>within the channel</u> of any perennial, intermittent, or ephemeral streams? ☐ Yes ■ No
F.	Is any drilling anticipated to occur <u>within 100 feet</u> of any perennial, intermittent, or ephemeral streams? ☐ Yes ■ No

SECTION 7 – RECLAMATION & OPERATION PLAN (§302.D.6 AND 302.I.K)

A. Salvage/Preservation of Topsoil

	Before any grading/blading or similar activities occur in relation to this project, operator agrees to salvage and preserve all topsoil and topdressing for use in future reclamation of this project Yes No				
	Describe how topsoil will be salvaged prior to initiation of exploration activities (check all that apply):				
	 N/A – no construction work will occur, therefore no soil salvage is needed. ■ Excavated from drill pads and stored at each drill pad ■ Excavated from road improvements/construction and stored adjacent to road ■ Excavated from mud/fluid pits and storage at each pit □ Other, describe: 				
В.	Eros	sion Control			
	Describe the best management practices that will be implemented to control erosion:				
		Silt fencing	Location:	· · · · · · · · · · · · · · · · · · ·	
		Straw waddles	Location:	As needed for drill pads.	
		Straw bales	Location:		
		Ditches/swales	Location:		
		Berms/dikes/dams	Location:		
		Sediment basins	Location:		
		Other or N/A	Type/Location:		
				garantia di Santa di	

C.	Wildlife Protection / Noxious Weed Prevention
	Will the perimeter of drill pits be fenced to prevent wildlife entrapment? ■ Yes □ No
	Proposed pit perimeter fence material: Standard 4-inch wire net fencing secured with steel fence posts.
	Describe how the pit perimeter fencing will be installed and secured (i.e., T-posts, wooden stakes, etc.):
	Fence posts will be located at corners of sumps with fencing material attached.
	Will at least one side of the interior of the drill pits be sloped at 3:1 as a ramp for wildlife escape? ■ Yes □ No
	If No, will another type of constructed escape ramp be installed? Describe:
	Applicant/Owner/Operator commits to pressure-washing or steam-clean all equipment prior to entering the permit area: ■ Yes □ No
D.	Reclamation Details
	Describe in general how re-contouring or re-establishment of the surface topography will be restored:
	1) Recontouring will occur immediately after completion of drilling and removal of drilling equipment and supporting materials. 2) Cuts will be refilled to match topographic relief with material originally excavated and stored immediately adjacent to the disturbance with backhoe and dozer as appropriate.

Describe how the reclamation of portals, adits, drilling fluid/mud and/or waste pits, shafts, ponds, roads and other disturbances will be performed:

1) Excess fluids will be removed from drill sumps. 2) Drill cuttings will be wrapped inside the impermeable barrier and left in the bottom of the sump. 3) The sump will be refilled and recontoured along with the drill pad and returned to a state matching the original surface topography.

	• — —
Plant mix to be used in the re-establish	shment of vegetation:
	pplied through broadcast at their recommended rate n broadcast at their recommended rate
Plant Name	Seeding Rate (lbs./acre)
Broadcast applied or drill-seeded:	■ Broadcast □ Drill-seeded

Scarification Methods (check all that apply):
Primary tillage to greater than 6-inches depth of all constructed drill pads and roads
Secondary tillage of all constructed drill pads and roads, and/or overland travel routes
Chain drag or tire drag over seeds in areas used for overland travel
Light raking of soil over seeds in areas used for overland travel
None
Other/describe:
Mulch Use:
☐ Certified weed-free straw mulch will be placed over areas that have been tilled/disced or
ripped at a rate of 2 tons per acre, and will be crimped in place
No mulch is proposed
Reclamation Timeline
Applicant/Owner/Operator commits to reclamation of the disturbed area as soon as possible
following the completion or abandonment of the exploration operation, unless the disturbed
area is included within a complete permit application for a new mining permit:
■ Yes
Anticipated Start of Reclamation:
O 20 doug often completion of deiling
0-30 days after completion of drilling
☐ 31-60 days after completion of drilling ☐ Other/specify:

E.

SECTION 8 – PERMIT FEES AND FINANCIAL ASSURANCE (§302.I.2 AND 5)

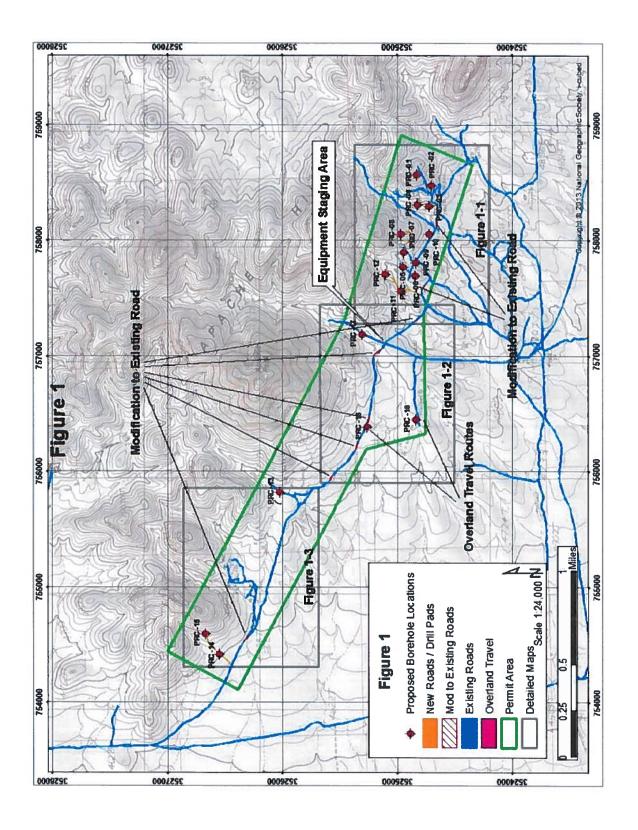
A.	Financial assurance must be posted with Mining and Minerals Division prior to approval of this application. The acceptable forms of financial assurance are surety bonds, letters of credit, and certificates of deposit. Provide an estimate of, and an instrument for, the proposed financial assurance required by Subpart 3.
	■ Surety Bond Letter of Credit Cash Account / Certificate of Deposit
	Estimated amount of financial assurance: 90,566
	Or
	Applicant will provide the amount of financial assurance calculated by MMD.
B.	Attach the permit fees as determined pursuant to Subpart 2. The application fee for a minimal impact exploration permit is \$500.00.
	
	Check Number : 49
	Financial Institution: Bank of Montreal

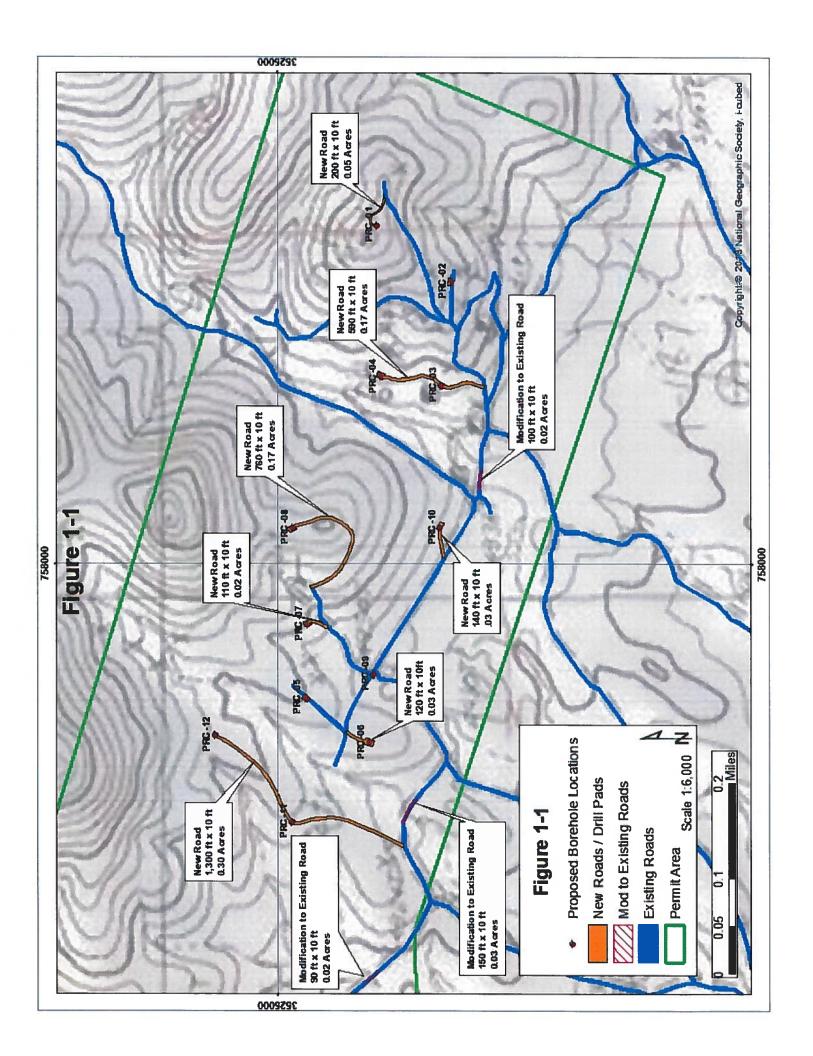
SECTION 9 - CERTIFICATION REQUIREMENT (§302.1.3 & 4)

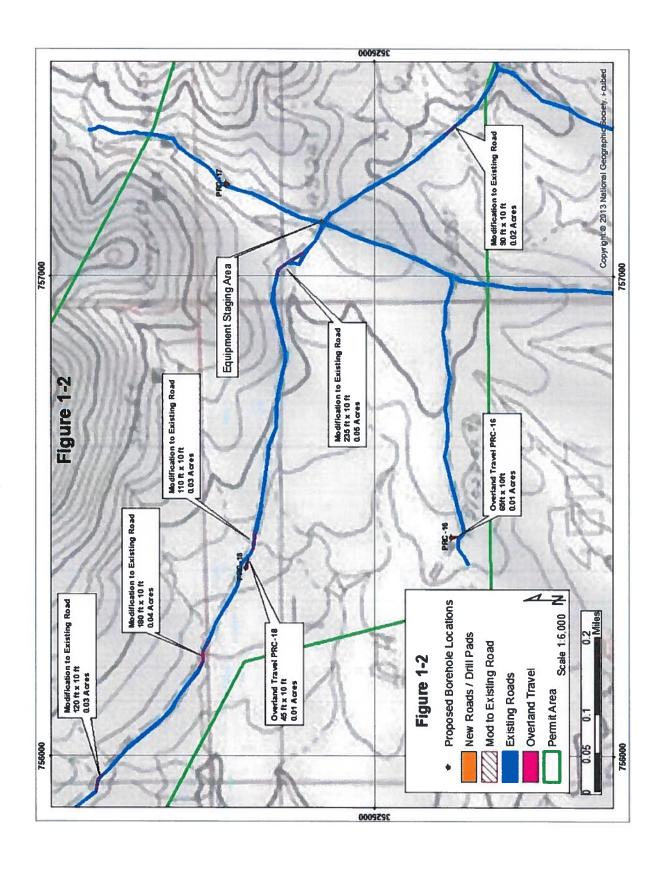
I certify that I have personally examined and am familiar with the information submitted herein, and based on my inquiry of those individuals responsible for obtaining the information; I believe the submitted information is true, accurate, and complete. I agree to comply with the reclamation requirements set forth in this permit application and related correspondence, the New Mexico Mining Act and the Rules. Further, I certify that I am not in violation of any other obligation under the New Mexico Mining Act or the Rules adopted pursuant to that Act and I allow the Director to enter the permit area, without delay, for the purposes of conducting inspections during exploration and reclamation.

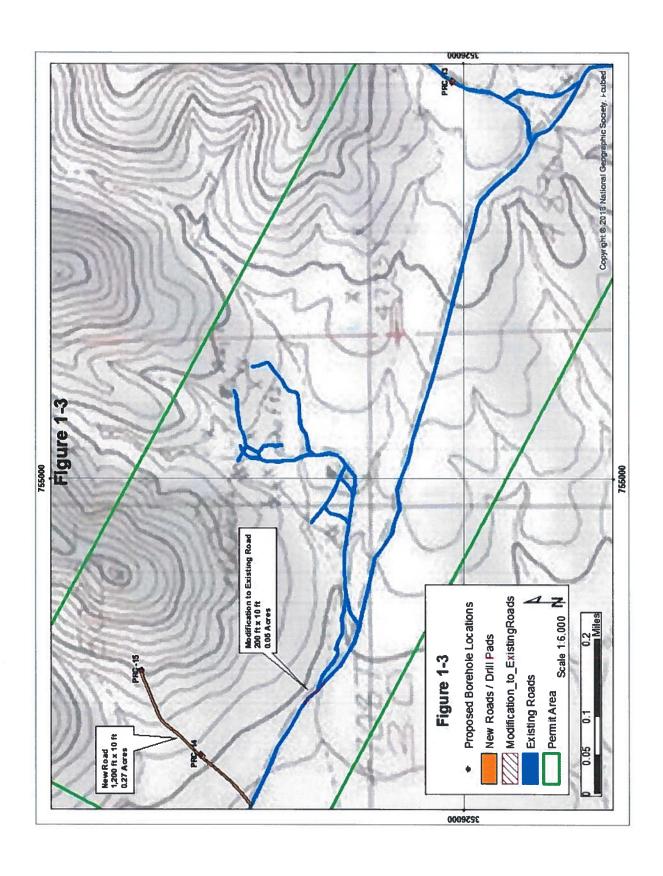
Signature of Permittee o	or Authorized Agent:	
Name (type or print):	Scott Burkett	
Title/Position:	up of Explanation	
Date:	4/10/18	

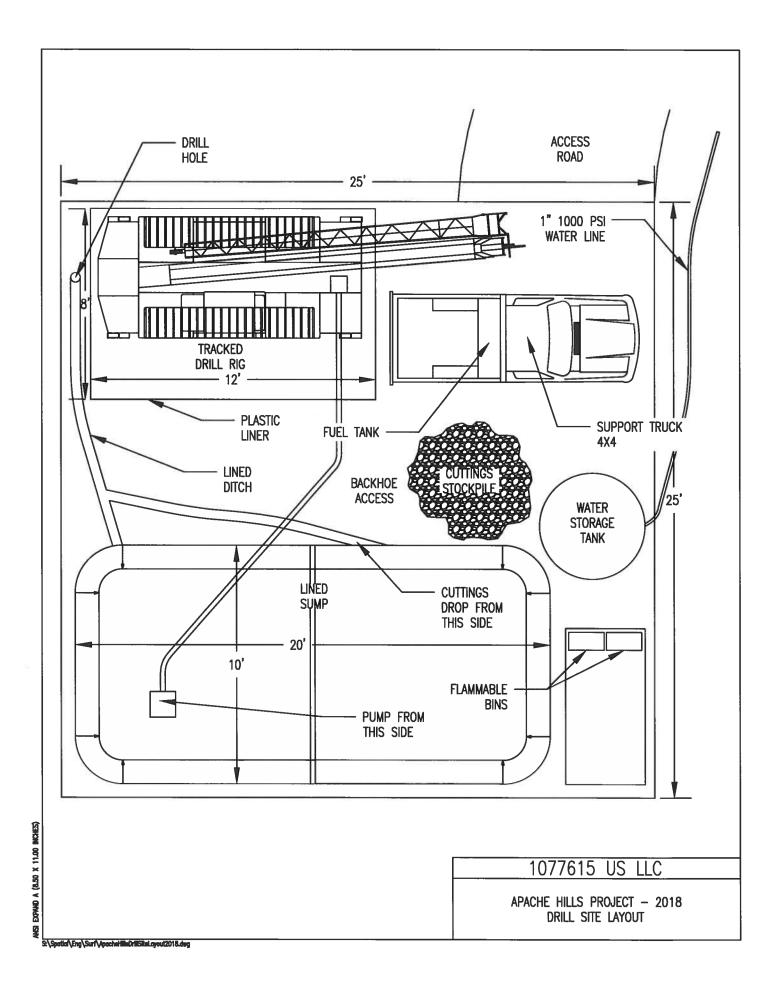
ATTACHMENT 1-5 Figures











ATTACHMENT 6 Copies of WR-07 And WD-08 Submitted to NM OSE



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. I. FILING FEE: There is no filing fee for this form. II. GENERAL / WELL OWNERSHIP: Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: Name of well owner: 1077615 US LLC Mailing address: 408 Sylvia Lake Road City: Gouverneur _ Zip code: 13462 _____ State: ___ Phone number: 315-535-3253 _____ E-mail: sburkett@titanminingcorp.com III. WELL DRILLER INFORMATION: Well Driller contracted to provide plugging services: Godbe Drilling LLC New Mexico Well Driller License No.: WD-1677 Expiration Date: 2019 IV. WELL INFORMATION: Note: A copy of the existing Well Record for the well to be plugged should be attached to this plan. 1) GPS Well Location: Longitude: min, __8.573 sec, WGS84 Check if seconds are decimal format. 2) Reason(s) for plugging well: Per NM regulations once exploration drill hole has been completed. 3) Was well used for any type of monitoring program? _ No __ If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging. Does the well tap brackish, saline, or otherwise poor quality water? _____NO____ If yes, provide additional detail, 4)

feet below land surface / feet above land surface (circle one)

including analytical results and/or laboratory report(s):

TBD

feet

Static water level:

Depth of the well: ___

5)

6)

7)	Inside diameter of innermost casing:inches.		
8)	Casing material: 4130 Steel - non-perforated (temporary) to be pulled		
9)	The well was constructed with: an open-hole production interval, state the open interval: a well screen or perforated pipe, state the screened interval(s): NA		
10)	What annular interval surrounding the artesian casing of this well is cement-grouted?		
11)	Was the well built with surface casing?NAIf yes, is the annulus surrounding the surface casing grouted or otherwise sealed?If yes, please describe:		
12)	Has all pumping equipment and associated piping been removed from the well? If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.		
V. DE	SCRIPTION OF PLANNED WELL PLUGGING:		
pipe, a	If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional al information, such as geophysical logs, that are necessary to adequately describe the proposal.		
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:		
	Once the exploration well/hole has been completed to required depth. Abandonment with bentonite grout (20% Solids by volume) which will be pumped and displaced using the drill string as a tremmie pipe. The driller will pump the bentonite grout mixture from the bottom of the hole to 20' beneath ground level (B.G.L.). The hole will be cemented from		
2)	Will well head be cut-off below land surface after plugging? NA will be pulled		
VI. PL	UGGING AND SEALING MATERIALS:		
Note: 7	The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant		
1)	For plugging intervals that employ cement grout, complete and attach Table A.		
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.		
3)	Theoretical volume of grout required to plug the well to land surface: 287.35 gallons from 500' to 20' BGL		
4)	Type of Cement proposed: Portland neat cement		
5)	Proposed cement grout mix: 5.2 gallons of water per 94 pound sack of Portland cement.		
6)	Will the grout be:batch-mixed and delivered to the site		

7)	Grout additives requested, and percent by dr	y weight relative to cement:	
	N/A		
8)	Additional notes and calculations:		
0)	Additional notes and calculations.		
VII.	ADDITIONAL INFORMATION: List additi	onal information below, or on separate sheet(s):	
	CVCV ATVINE		
	SIGNATURE:		
-,	ott Burkett	say that I have carefully read the foregoing Well	Plugging Plan of
Engin	eer pertaining to the plugging of wells and will	eof; that I am familiar with the rules and regulation comply with them, and that each and all of the state	S OI the State
Plugg	ing Plan of Operations and attachments are true	to the best of my knowledge and belief.	omones in the wen
		A Distribution of the Court of	V V 22
	Scott E	Burkett Digitally signed by Scott Burkett Date: 2018.04.06 15:27:44 -04'00'	4/6/18
		Signature of Applicant	Date
IV A	CTION OF THE STATE ENGINEER:		
14. 8	CHON OF THE STATE ENGINEER;		
This V	Well Plugging Plan of Operations is:		
	Approved subject to the attached co		
	Not approved for the reasons provi	ded on the attached letter.	
	Witness my hand and official seal this	day of,	<u>.</u>
		Tom Blaine P.E., New Mexico State Engir	eer
		Ву:	
		· — — — — — — — — — — — — — — — — — — —	

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			
Bottom of proposed interval of grout placement (ft bgl)		of .	
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			in the state of th
Mixed on-site or batch- mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement		e o	

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)		×.	
Proposed abandonment sealant (manufacturer and trade name)			





ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

		211 0110 (1) point (31 4110101011	is described on an Application of Declaration.	
a. Is this a:			b. Information on Attachment(s):		
☐ Move-From Point of Diversion(s)			Number of points of diversion involved in the application:		
☐ Move-To Point of Diver	sion(s)		Total num	ber of pages attached to the application:4_	
☐ Surface Point of Diversion	OR	■ Well			
Name of ditch, acequia,	or spring:				
Stream or water course:					
Tributary of:				li li	
c. Location (Required): Required: Move to POD location	coordinate must	be either New Mex	rico State Pla	ane (NAD 83), UTM (NAD 83), <u>or</u> Lat/Long (WGS84)	
NM State Plane (NAD83)	UTM (NAD83)			OTHER (allowable only for move-from	
(feet) NM West Zone □	(meters)	☐ Lat/	Long-	descriptions - see application form for format) PLSS (quarters, section, township, range)	
NM Central Zone	Zone 13N 🗌	WGS8	4)	☐ Hydrographic Survey, Map & Tract	
NM East Zone	Zone 12N 🔳	1/10 th or	fsecond	Lot, Block & Subdivision Grant	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
PRC-02	758610	3524		o anor a social in Boson paoria.	
		- 0			
POD Number:	X or Longitude	Y or Lati		Other Location Description:	
PRC-03	758300	3524	725		
POD Number:	X or Longitude	ongitude Y or Lati		Other Location Description:	
PRC-04	758315	3524	825		
POD Number:	X or Longitude	Longitude Y or Lati		Other Location Description:	
PRC-05	757815	3524	840		
POD Number:	X or Longitude	Longitude Y or Lati		Other Location Description:	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
*				8	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
				·	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
	J			·	
	-				

FOR OSE INTERNAL USE	Form wr-08 POD DESCRIPTIONS - ATTACHMENT 1
File Number:	Trn Number:
Trans Description (optional):	





ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

a. Is this a:			b. Information on Attachment(s):		
Move-From Point of Diversion(s)			Number of points of diversion involved in the application:		
☐ Move-To Point of Diver	sion(s)		Total numb	er of pages attached to the application:	
☐ Surface Point of Diversion	OR	☐ Well			
Name of ditch, acequia,	or spring:				
Stream or water course:					
Tributary of:					
c. Location (Required): Required: Move to POD location	coordinate must	be either New Mex	rico State Pla	ne (NAD 83), UTM (NAD 83), <u>or</u> Lat/Long (WGS84)	
NM State Plane (NAD83)	UTM (NAD83)			OTHER (allowable only for move-from	
(feet) NM West Zone □	(meters)	☐ Lat/	Lona-	descriptions - see application form for format) PLSS (quarters, section, township, range)	
NM Central Zone	Zone 13N	(WGS84	4)	Hydrographic Survey, Map & Tract	
NM East Zone	Zone 12N	1/10 th of	second	Lot, Block & Subdivision	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
PRC-06	757775	3524		outer Esseution Secondaria	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
PRC-07	757900	3524950			
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
PRC-08	758060	3524	725		
POD Number:	X or Longitude Y or Lat		tude	Other Location Description:	
PRC-09	757700	3524	850		
POD Number:	X or Longitude	Y or Latitude		Other Location Description:	
PRC-10	758060	3524975			
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
PRC-11	757565	3524	975		
POD Number:	X or Longitude	Y or Lati	ude	Other Location Description:	
PRC-12	757710	3525	105		
POD Number:	X or Longitude	Y or Latin	ude	Other Location Description:	
PRC-13	754425	3526	550		
POD Number:	X or Longitude	Y or Latin	ude	Other Location Description:	
PRC-14	754600	3526	675		

FOR OSE INTERNAL USE	Form wr-08 POD DESCRIPTIONS - ATTACHMENT 1		
File Number:	Trn Number:		
Trans Description (optional):			





ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

a. Is this a:			b. Information on Attachment(s):		
☐ Move-From Point of Div		Number of	f points of diversion involved in the application:		
☐ Move-To Point of Diver		Total numl	ber of pages attached to the application:		
☐ Surface Point of Diversion	OR	☐ Well			
Name of ditch, acequia,	or spring:	12			
Stream or water course:					
Tributary of:					
c. Location (Required):					
	coordinate must	be either New Mex	ico State Pla	ane (NAD 83), UTM (NAD 83), <u>or</u> Lat/Long (WGS84)	
NM State Plane (NAD83)	UTM (NAD83)			OTHER (allowable only for move-from	
(feet)	(meters)	☐ Lat/	l ona-	descriptions - see application form for format) PLSS (quarters, section, township, range)	
NM West Zone	Zone 13N 🗌	(WGS8	4) f second	Hydrographic Survey, Map & Tract	
NM Central Zone	Zone 12N 🔳	1/10 th o	fsecond	Lot, Block & Subdivision	
NM East Zone				☐ Grant	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
PRC-15	754800	3526	3400	20	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
PRC-16	755175	3526425			
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
PRC-17	755325	3526	300		
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
PRC-18	755825	3526025			
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
				·	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:	
		-			

FOR OSE INTERNAL USE	Form wr-08 POD DESCRIPTIONS - ATTACHMENT 1
File Number:	Trn Number:
Trans Description (optional):	

Attachment to WD-08, WR-07 and WR-08 - Well locations (in WGS84) Apache Hills Project

Well No.		
(exploration		
borehole)	Latitude	Longitude
PRC-01	31 deg, 49 min, 43.6188 sec	-108 deg, 16 min, 8.573 sec
PRC-02	31 deg, 49 min, 46.9776 sec	-108 deg, 16 min, 3.338 sec
PRC-03	31 deg, 49 min, 44.3136 sec	-108 deg, 16 min, 15.204sec
PRC-04	31 deg, 49 min, 47.5428 sec	-108 deg, 16 min, 14.538 sec
PRC-05	31 deg, 49 min, 48.4392 sec	-108 deg, 16 min, 33.524 sec
PRC-06	31 deg, 49 min, 52.0392 sec	-108 deg, 16 min, 34.939 sec
PRC-07	31 deg, 49 min, 51.9384 sec	-108 deg, 16 min, 51.9384 sec
PRC-08	31 deg, 49 min, 44.508 sec	-108 deg, 16 min, 24.326 sec
PRC-09	31 deg, 49 min, 48.8568 sec	-108 deg, 16 min, 37.884 sec
PRC-10	31 deg, 49 min, 52.6188 sec	-108 deg, 16 min, 24.085 sec
PRC-11	31 deg, 49 min, 53.022 sec	-108 deg, 16 min, 42.895 sec
PRC-12	31 deg, 49 min, 57.1224 sec	-108 deg, 16 min, 37.261 sec
PRC-13	31 deg, 50 min, 46.6584sec	-108 deg, 18 min, 40.738 sec
PRC-14	31 deg, 50 min, 50.5716 sec	-108 deg, 18 min, 33.97 sec
PRC-15	31 deg, 50 min, 41.4888 sec	-108 deg, 18 min, 26.626 sec
PRC-16	31 deg, 50 min, 42 sec	-108 deg, 18 min, 12.352 sec
PRC-17	31 deg, 50 min, 37.824 sec	-108 deg, 18 min, 6.768 sec
PRC-18	31 deg, 50 min, 28.4964 sec	-108 deg, 17 min, 48.026 sec

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NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

	Fo	or fees, see State Engineer we	bsite: http://www.ose.state.nm.us/	
Purpose:		Pollution Control And/Or Recovery	☐ Ground So	urce Heat Pump
Exploratory Well (Pump test)		•	Construction Site/Public	
☐ Monitoring Well		Mine Dewatering		
A separate permit will be required	to app	ly water to beneficial use r	egardless if use is consumptiv	e or nonconsumptive.
☐ Temporary Request - Request	ed Sta	rt Date:	Requested Er	nd Date:
Plugging Plan of Operations Subn	nitted?	■ Yes □ No		
1. APPLICANT(S)				
Name:			Name:	
1077615 US LLC			ramo.	
Contact or Agent:	chec	k here if Agent 🔲	Contact or Agent:	check here if Agent
Scott Burkett				
Mailing Address: 408 Sylvia Lake Road			Mailing Address:	
City: Gouverneur			City:	
State: NY	Zip Co	ode: 13462	State:	Zip Code:
Phone: 315-535-3253 work Phone (Work):		Home 🗌 Cell	Phone: Phone (Work):	☐ Home ☐ Cell
E-mail (optional): sburkett@titanminingcorp.com		(2)	E-mail (optional):	
<u> </u>				
	FOF	R OSE INTERNAL USE	Application for Permit, Form WR	-07, Rev 11/17/16
	File	No.:	Tm. No.:	Receipt No.:
	Trans Description (optional):			

Sub-Basin:

PCW/LOG Due Date:

2. WELL(S) Describe the well(s) applicable to this application.

NM West ZoneNM East ZoneNM Central Zone		ITM (NAD83) (Mete Zone 12N Zone 13N	Lat/Long (WGS84) (to the nearest 1/10 th of second)
/ell Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey System (PLSS) (Quarters or Halves, Section, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name
PRC - 01	758475	3524708	Section 29, 30, 33, 34 of Township 28S, Range 14W
PRC-02	758610	3524815	
PRC-03	758300	3524725	
PRC-04	758315	3524825	
PRC-05	757815	3524840	S 3
TE: If more well location ditional well descriptions	s need to be describ	ed, complete form	WR-08 (Attachment 1 – POD Descriptions) If yes, how many 13
ner description relating well th of the town of Hachita, n		s, streets, or other:	
ell is on land owned by: Rich	nard Faulkner, local ra	ncher.	
If yes, how many 18		Il needs to be des	cribed, provide attachment. Attached?
proximate depth of well (fee		C	outside diameter of well casing (inches):
ller Name: Godbe Drilling			riller License Number: WD-1677
poratory Mineral Exploration to 20' BGL. From 20' BGL	Diamond Core Drilling	g. Casing will be pu	lled and each hole abandoned using abandonite grout from 500 eat cement. Top 2' will be natural fill

FOR OSE INTERNAL USE

File No.:

Trn No.:

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application: Exploratory: Pollution Control and/or Recovery: Construction Mine De-Watering: Include a ☐ Include a plan for pollution De-Watering: Include a plan for pollution description of control/recovery, that includes the Include a description of the control/recovery, that includes the following: any proposed following: proposed dewatering A description of the need for mine pump test, if ☐ A description of the need for the operation, dewatering. pollution control or recovery operation.

The estimated maximum period of applicable. The estimated duration of ☐ The estimated maximum period of time the operation. for completion of the operation. time for completion of the operation. ☐ The maximum amount of ☐ The source(s) of the water to be diverted. ☐ The annual diversion amount.☐ The annual consumptive use water to be diverted, ☐ The geohydrologic characteristics of the ☐ A description of the need. aquifer(s). amount. for the dewatering operation, ☐The maximum amount of water to be ☐ The maximum amount of water to be and, diverted per annum. diverted and injected for the duration of A description of how the ☐The maximum amount of water to be the operation. diverted water will be disposed diverted for the duration of the operation. ☐ The method and place of discharge. ☐The quality of the water. The method of measurement of Monitoring: **Ground Source Heat Pump:** ☐The method of measurement of water ☐ Include the water produced and discharged. ☐ Include a description of the diverted. reason for the ☐ The source of water to be injected. geothermal heat exchange ☐The recharge of water to the aquifer. monitoring ☐ The method of measurement of project, Description of the estimated area of well, and, water injected. The number of boreholes hydrologic effect of the project. ☐ The ☐ The characteristics of the aquifer. for the completed project and The method and place of discharge. ☐ The method of determining the duration required depths. ☐An estimation of the effects on surface of the planned resulting annual consumptive use of ☐ The time frame for water rights and underground water rights monitoring. water and depletion from any related constructing the geothermal from the mine dewatering project. stream system. heat exchange project, and, A description of the methods employed to Proof of any permit required from the ☐ The duration of the project. estimate effects on surface water rights and New Mexico Environment Department. Preliminary surveys, design underground water rights. An access agreement if the data, and additional Information on existing wells, rivers. applicant is not the owner of the land on information shall be included to springs, and wetlands within the area of which the pollution plume control or provide all essential facts hydrologic effect. recovery well is to be located. relating to the request. **ACKNOWLEDGEMENT** Scott Burkett
Print Name(s) I, We (name of applicant(s)), affirm that the foregoing statements are true to the best of (my, our) knowledge and belief. Digitally signed by Scott Burkett Scott Burkett Date: 2018.04.10 08:10:31 -04'00' **Applicant Signature** Applicant Signature **ACTION OF THE STATE ENGINEER** This application is: approved partially approved ☐ denied provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval. Witness my hand and seal this _____ day of _____ 20 ____, for the State Engineer, Signature Print Title: Print FOR OSE INTERNAL USE Application for Permit, Form WR-07 File No.: Trn No.:

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ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

a. Is this a: Move-From Point of Di Move-To Point of Diver		b. Information on Attachment(s): Number of points of diversion involved in the application: Total number of pages attached to the application:		
☐ Surface Point of Diversion	OR	☐ Well		
Name of ditch, acequia,				
Stream or water course:				
Tributary of:				
c. Location (Required): Required: Move to POD location	coordinate must	be either New Mex	cico State Pl	ane (NAD 83), UTM (NAD 83), or Lat/Long (WGS84)
NM State Plane (NAD83) (feet) NM West Zone NM Central Zone NM East Zone	UTM (NAD83) (meters) Zone 13N - Zone 12N	☐ Lat/Long– (WGS84) 1/10 th of second		OTHER (allowable only for move-from descriptions - see application form for format) PLSS (quarters, section, township, range) Hydrographic Survey, Map & Tract Lot, Block & Subdivision Grant
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:
PRC-06	757775	3524		Care Section 2000 April 1
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:
PRC-07	757900	3524950		
POD Number:	X or Longitude	Y or Latitude		Other Location Description:
PRC-08	758060	3524725		
POD Number:	X or Longitude	Y or Latin	lude	Other Location Description:
PRC-09	757700	3524	850	
POD Number:	X or Longitude	Y or Latitude		Other Location Description:
PRC-10	758060	3524975		
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:
PRC-11	757565	3524	975	
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:
PRC-12	757710	3525105		·
POD Number:	X or Longitude	or Longitude Y or Latin		Other Location Description:
PRC-13	754425	3526550		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:
PRC-14	754600	35266	375	

FOR OSE INTERNAL USE	Form wr-08 POD DESCRIPTIONS - ATTACHMENT 1		
File Number:	Trn Number:		
Trans Description (optional):			





ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

a. Is this a:			b. Information on Attachment(s):	
☐ Move-From Point of Diversion(s)			Number of points of diversion involved in the application:	
	I		ber of pages attached to the application:	
☐ Surface Point of Diversion	OR	☐ Well		
Name of ditch, acequia,	or spring:			
Stream or water course:				
Tributary of:	-			
	coordinate must	be either New Mex	cico State Pl	ane (NAD 83), UTM (NAD 83), <u>or</u> Lat/Long (WGS84)
NM State Plane (NAD83) (feet) NM West Zone NM Central Zone NM East Zone	UTM (NAD83) (meters) Zone 13N Zone 12N	☐ Lat/ (WGS8/ 1/10 th or		OTHER (allowable only for move-from descriptions - see application form for format) PLSS (quarters, section, township, range) Hydrographic Survey, Map & Tract Lot, Block & Subdivision Grant
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:
PRC-15	754800	3526	3400	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:
PRC-16	755175	3526	425	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:
PRC-17	755325	3526	300	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:
PRC-18	755825	3526	025	
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:
POD Number:	X or Longitude	Y or Lati	tude	Other Location Description:
POD Number:	X or Longitude	Y or Latin	ude	Other Location Description:
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:
POD Number:	X or Longitude	Y or Latit	ude	Other Location Description:

Form wr-08 POD DESCRIPTIONS - ATTACHMENT 1
Trn Number:

Attachn	Attachment to WD-08, WR-07 and WR-08 - Well locations (in WGS84)					
Apache Hills Project						
Well No.						
(exploration						
borehole)	Latitude	Longitude				
PRC-01	31 deg, 49 min, 43.6188 sec	-108 deg, 16 min, 8.573 sec				
PRC-02	31 deg, 49 min, 46.9776 sec	-108 deg, 16 min, 3.338 sec				
PRC-03	31 deg, 49 min, 44.3136 sec	-108 deg, 16 min, 15.204sec				
PRC-04	31 deg, 49 min, 47.5428 sec	-108 deg, 16 min, 14.538 sec				
PRC-05	31 deg, 49 min, 48.4392 sec	-108 deg, 16 min, 33.524 sec				
PRC-06	3'1 deg, 49 min, 52.0392 sec	-108 deg, 16 min, 34.939 sec				
PRC-07	31 deg, 49 min, 51.9384 sec	-108 deg, 16 min, 51.9384 sec				
PRC-08	31 deg, 49 min, 44.508 sec	-108 deg, 16 min, 24.326 sec				
PRC-09	31 deg, 49 min, 48.8568 sec	-108 deg, 16 min, 37.884 sec				
PRC-10	31 deg, 49 min, 52.6188 sec	-108 deg, 16 min, 24.085 sec				
PRC-11	31 deg, 49 min, 53.022 sec	-108 deg, 16 min, 42.895 sec				
PRC-12	31 deg, 49 min, 57.1224 sec	-108 deg, 16 min, 37.261 sec				
PRC-13	31 deg, 50 min, 46.6584sec	-108 deg, 18 min, 40.738 sec				
PRC-14	31 deg, 50 min, 50.5716 sec	-108 deg, 18 min, 33.97 sec				
PRC-15	31 deg, 50 min, 41.4888 sec	-108 deg, 18 min, 26.626 sec				
PRC-16	31 deg, 50 min, 42 sec	-108 deg, 18 min, 12.352 sec				
PRC-17	31 deg, 50 min, 37.824 sec	-108 deg, 18 min, 6.768 sec				

-108 deg, 17 min, 48.026 sec

31 deg, 50 min, 28.4964 sec

PRC-18

ATTACHMENT 7 NOI Project Approval by Bureau of Land Management



United States Department of the Interior

TA DESCRIPTION OF THE PROPERTY OF THE PROPERTY

BUREAU OF LAND MANAGEMENT Las Cruces District Office 1800 Marquess Street Las Cruces, New Mexico 88005 www.blm.gov/new-mexico

IN REPLY REFER TO:

3809 (L0310) NMNM 138006

MAR 1 3 20 18

CERTIFIED MAIL - RETURN RECEIPT REQUESTED 7006 0100 0004 5388 8486

DECISION

1077615 US LLC. Attn: Mark Osterberg 2210 East Ft. Lowell Road

Surface Management

Tuscon, AZ 85719

DETERMINATION OF REQUIRED FINANACIAL GUARANTEE AMOUNT

The 1077615 US LLC, Notice to conduct exploration trenching and drilling in the Apache Hills near Hatchita, NM was received by this office on February 20, 2018. The Notice has been assigned Bureau of Land Management (BLM) case file number NMNM 138006. Please refer to this number in any future communication concerning this project.

The BLM has reviewed the Notice and has determined it to be complete, containing all the information required by the surface management regulations at 43 CFR 3809.301. The BLM has reviewed the proposed operation and determined it is adequate to prevent unnecessary or undue degradation as defined by 43 CFR 3809.5.

Amount of Financial Guarantee - This office has reviewed 1077615 US LLC's reclamation cost estimate for this project and determined that the amount of \$7,500 is sufficient to meet all anticipated reclamation requirements. The amount of the reclamation cost estimate is based on the operator complying with all applicable operating and reclamation requirements as outlined in the Notice and the regulations at 43 CFR 3809.420.

Line items in the approved reclamation cost estimate are not to be considered as the limits of the reclamation expenditures should forfeiture of the financial guarantee be necessary. The line items listed are solely for the purpose of arriving at a total amount for the financial guarantee. This amount may be spent as the BLM deems necessary to implement the approved reclamation plan. The financial guarantee amount does not represent reclamation liability limits or constraints should the actual cost of reclamation exceed this amount.

Required Financial Guarantee -The financial guarantee in the amount of \$7,500 must be submitted to and accepted by the BLM New Mexico State Office at P.O. Box 27115, Santa Fe, NM 87502. You must receive written notification from that office accepting and obligating your financial guarantee before you begin any surface-disturbing operations.

The types of instruments that are acceptable to the BLM for financial guarantees are found at 43 CFR 3809.555. Please contact Ida Viarreal, (505) 954-2163 for forms and further information regarding acceptable financial guarantees.

The BLM's review of your proposed operations, determination that your Notice is complete, finding that the activity will not cause unnecessary or undue degradation, and decision concerning the amount of the required financial guarantee does not relieve you, the operator, of the responsibility to comply with all applicable Federal, state, and local laws, regulations, and permit requirements. You are responsible for preventing any unnecessary or undue degradation and for reclaiming all lands disturbed by your operations. This decision does not constitute certification of ownership to any entity named in the Notice, recognition of the validity of any associated mining claims, or recognition of the economic feasibility of the proposed operations.

<u>Term of Notice</u> - Your Notice will remain in effect for 2 years from the date of this decision, unless you notify this office beforehand that operations have ceased and reclamation is complete. If you wish to conduct operations for another 2 years after the expiration date of your Notice, you must notify this office in writing on or before the expiration date as required by 43 CFR 3809.333. You will also have to submit an updated reclamation cost estimate at that time.

Range: There are several fences within your project area. Some of these fences cross your proposed roads. If there is not a gate, a temporary gate will need to be installed. All temporary gates must be removed and the fence repaired upon reclamation of your project area.

There are several range improvements, including a well, within your project area. It is recommended that you document the condition of the improvements, as you will be responsible for any damages.

Cultural Resources: The project is located within a historical mining district; it is highly recommended you hire an archaeological monitor to help avoid any cultural or historic sites.

Sensitive Species: The project area is located in known habitat for BLM sensitive specie Night-Blooming Cereus. A quick ID sheet is enclosed.

Dust Abatement: The operator shall implement dust abatement measures as needed to prevent fugitive dust from vehicular traffic, equipment operations, or wind events. The BLM may direct the operator to change the level and type of treatment (watering or application of various dust agents,

surfactants, and road surfacing material) if dust abatement measures are observed to be insufficient to prevent fugitive dust

Erosion Control: Cut-and-fill slopes shall be protected against erosion with the use of water bars, lateral furrows, or other measures approved by the BLM. Cut-and-fill slopes along drainages or in areas with high erosion potential shall also be protected from erosion using hydromulch designed specifically for erosion control or biodegradable blankets/matting, bales, or wattles of weed-free straw or weed-free native grass hay. A well-anchored fabric silt fence shall also be placed at the toe of cut-and-fill slopes along drainages or to protect other sensitive areas from deposition of soils eroded off the slopes. Additional BMPs shall be employed as necessary to reduce soil erosion and offsite transport of sediments.

Noxious Weeds: all equipment utilized on the project shall be cleaned off site on private land with a high pressure power washer to remove any oil, grease, dirt, and debris that may contain noxious and invasive weed seed.

Appeal of the Decision - If you are adversely affected by this decision, you may request that the BLM New Mexico State Director review this decision. If you request a State Director Review, the request must be received in the BLM New Mexico State Office at 301 Dinosaur Trail, Santa Fe, NM 87508 no later than 30 calendar days after you receive or have been notified of this decision. The request for State Director Review must be filed in accordance with the provisions in 43 CFR 3809.805. This decision will remain in effect while the State Director Review is pending, unless a stay is granted by the State Director.

If the State Director does not make a decision on your request for review of this decision within 21 days of receipt of the request, you should consider the request declined and you may appeal this decision to the Interior Board of Land Appeals (IBLA). You may contact the BLM New Mexico State Office to determine when the BLM received the request for State Director Review. You have 30 days from the end of the 21-day period in which to file your Notice of Appeal with this office at 1800 Marquess St., Las Cruces, NM 88005, which we will forward to IBLA.

If you wish to bypass a State Director Review, this decision may be appealed directly to the IBLA in accordance with the regulations at 43 CFR 3809.801(a)(1). Your Notice of Appeal must be filed in this office at 1800 Marquess St., Las Cruces, NM 88005 within 30 days from receipt of this decision. As the appellant you have the burden of showing that the decision appealed from is in error. Enclosed is BLM Form 1842-1 that contains information on taking appeals to the IBLA. This decision will remain in effect while the IBLA reviews the case, unless a stay is granted by the IBLA.

Request for a Stay - If you wish to file a petition pursuant to regulations 43 CFR 4.21 for a stay of the effectiveness of this decision during the time that your appeal is being reviewed by Interior Board of Land Appeals (IBLA), the petition for a stay must accompany your notice of appeal. A petition for a stay is required to show sufficient justification based on the standards listed below. Copies of this notice of appeal and petition for a stay must also be submitted to each party named in

the decision and to the IBLA and to the appropriate Office of the Solicitor (see 43 CFR 4.413) at the same time the original documents are filed with this office. If you request a stay, you have the burden of proof to demonstrate that a stay should be granted.

<u>Standards for Obtaining a Stay</u> - Except as otherwise provided by law or other pertinent regulation, a petition for a stay of a decision pending appeal shall show sufficient justification based on the following standards:

- 1) The relative harm to the parties if the stay is granted or denied,
- 2) The likelihood of the appellant's success on the merits,
- 3) The likelihood of immediate and irreparable harm if the stay is not granted, and
- 4) Whether the public interest favors granting the stay.

If you have any questions, please contact Leighandra Keeven, Geologist, at (575) 525-4337.

David Wallace

Assistant District Manager

Multi-Resources

Las Cruces District Office

2 Enclosures

- 1 Form 1842-1, Information on Taking Appeals to the Interior Board of Land Appeals
- 2 Night-Blooming Cereus Quick ID Sheet

cc:

Holland Shepard
New Mexico Energy, Minerals
and Natural Resources Department
Mining and Minerals Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Ida Villareal BLM New Mexico State Office 301 Dinosaur Trail Santa Fe, NM 87508 Lorm 1842-1 (September 2006)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

INFORMATION ON TAKING APPEALS TO THE INTERIOR BOARD OF LAND APPEALS

DO NOT APPEAL UNLESS

1. This decision is adverse to you,

AND

2. You believe it is incorrect

HE YOU APPEAL, THE FOLLOWING PROCEDURES MUST BE FOLLOWED

1, NOTICEOF

A person who wistes to appeal to the Interior Board of Land Appeals must file in the office of the officer who made the decision (not the Interior Board of Land Appeals) a notice that he wistes to appeal. A person served with the decision being appealed must transmit the *Notice of Appeal* in time for it to be filed in the office where it is required to be filed within 30 days after the date of service. If a decision is published in the FEDFRAL REGISTER, a person not served with the decision must transmit a *Notice of Appeal* in time for it to be filed within 30 days after the date of publication (43 CFR 4.411 and 4.413).

2. WHERE TO 141 45

Hureau of Land Management, 1800 Marquess Street, Las Cruces, NM 88005

NOTICE OF APPEAL

Office of the Regional Solicitor, Southwest Regional Office, 505 Marquette Ave. NW, Suite 1800

WITH COPY TO SOLICITOR ...

Albaquerque, NM 87102

3. STATEMENT OF REASONS

Within 30 days after filing the *Notice of Appeal*, file a complete statement of the reasons why you are appealing. This must be filed with the United States Department of the Interior, Office of Hearings and Appeals, Interior Board of Land Appeals, 801 N. Quincy Street, MS 300-QC, Arlington, Virginia 22203. If you fully stated your reasons for appealing when filing the *Notice of Appeal*, no additional statement is necessary (43 CFR 4.412 and 4.413).

WITH COPY TO SOLICITOR.

4. ADVERSE PARTIES......

Within 15 days after each document is filed, each adverse party named in the decision and the Regional Solicitor or Field Solicitor having jurisdiction over the State in which the appeal arose must be served with a copy of: (a) the Notice of Appeal, (b) the Statement of Reasons, and (c) any other documents filed (43 CFR 4.413).

5. PROOF OF SERVICE

Within 15 days after any document is served on an adverse party, file proof of that service with the United States Department of the Interior, Office of Hearings and Appeals, Interior Board of Land Appeals, 801 N. Quincy Street, MS 300-QC, Arlington, Virginia 22203. This may consist of a certified or registered mail "Return Receipt Card" signed by the adverse party (43 CFR 4.401(c)).

6. REQUEST FOR STAY.....

Except where program-specific regulations place this decision in full force and effect or provide for an automatic stay, the decision becomes effective upon the expiration of the time allowed for filing an appeal unless a petition for a stay is timely filed together with a *Notice of Appeal* (43 CFR 4.21). If you wish to file a petition for a stay of the effectiveness of this decision during the time that your appeal is being reviewed by the Interior Board of Land Appeals, the petition for a stay must accompany your *Notice of Appeal* (43 CFR 4.21 or 43 CFR 2801.10 or 43 CFR 2881.10). A petition for a stay is required to show sufficient justification based on the standards listed below. Copies of the *Notice of Appeal* and Petition for a Stay must also be submitted to each party named in this decision and to the Interior Board of Land Appeals and to the appropriate Office of the Solicitor (43 CFR 4.413) at the same time the original documents are filed with this office. If you request a stay, you have the burden of proof to demonstrate that a stay should be granted.

Standards for Obtaining a Stay. Except as otherwise provided by law or other pertinent regulations, a petition for a stay of a decision pending appeal shall show sufficient justification based on the following standards: (1) the relative harm to the parties if the stay is granted or denied, (2) the likelihood of the appellant's success on the merits, (3) the likelihood of immediate and irreparable harm if the stay is not granted, and (4) whether the public interest favors granting the stay.

Unless these procedures are followed, your appeal will be subject to dismissal (43 CFR 4.402). Be certain that all communications are identified by serial number of the case being appealed.

NOTE: A document is not filed until it is actually received in the proper office (43 CFR 4.401(a)). See 43 CFR Part 4, Subpart B for general rules relating to procedures and practice involving appeals.

QUICK ID SHEET
Night-Blooming Cereus — Peniocereus greggii var. greggii



Characteristics: Roots a very large tuber; stems 3 to 6 ribbed (angled), narrow, dull green to dull purple (winter), 6" to 3' tall, up to 2.5 cm / 1" diameter; spine clusters oval, spaced along ribs, spines short, 2-3mm / 1/16" to 1/8" long; flowers white (May), 2-3" diameter, fragrant, nocturnal, opening early evening and closing mid-morning; fruits red, 2-3" long narrowing to a point at top, dotted with small spine clusters (late summer to fall).

Distribution: Plants are known to occur from the east side of the Organ/San Andres/Franklin Mtns south into Texas and Mexico and west to the Bootheel Region and the eastern edge of Arizona.

Habitat: Plants occur primarily in gravelly soils near the bases of hills and on rocky bajadas (rarely in sandy or loamy soils or in cracks in bedrock). Usually found growing within a shrub canopy (creosotebush, mesquite), sometimes in the open. Plants are usually infrequently dotted across the landscape, but occasionally occur in populations of 50-150 individuals.

General Info: Night-blooming cereus is a state endangered and BLM sensitive species. Please notify your local botanist or endangered species specialist of discoveries of this plant – take field notes and accurate GPS positions.

BLM-NM - February 28, 2018

