## St. Cloud Mining Company

P.O. Box 196 Winston, New Mexico 87943 *Ph: 505-743-5215 Fax: 505-743-3333 (email)* 

Website: apadilla@stcloudmining.com

February 22, 2013

Chris Eustice, Permit Lead Mining Act Reclamation Program New Mexico Mining and Minerals Division 1220 South St. Francis Drive Santa Fe, NM 87505

St. Cloud RS Drilling Exploration 2013

Dear Mr. Eustice:

Enclosed is the Exploration application. St Cloud wants to prove the Zeolite deposits on the East Yellowjacket, Bowman Pit, Little Hermosa, and Big Hermosa deposits. We are contracting Layne Christensen Company to do the RS Drilling. We will be drilling 18 to 24 5.5" holes 135' - 75' deep depending on the depth of the water table. Colleting composite samples at 5' intervals. To determent the quality and location of the Zeolite deposits. The staging area will be located on the permitted area known as the Yellowjacket pit (Bowman Pit). There will be four locations where the drill bore holes will be drilled. Location 1: Drill holes 13, 12, 11, and 10 are located in the permitted area. Location 2: East Yellowiacket east of the permitted area contains drill holes 1,2,3,4,5,6,7,8, and 9, each of these drill holes will have over the land drill pads 80' x 20' the over land road will be approximately 1807' long x 15' wide. Location 3: called the Little Hermosa will have drill holes 15, 14, 16, and 17. This location calls for a new road approximately 100' x 30 'and 784' x 15 over the land road. Drill hole 16 will have a drill pad to be constructed to fit the drill rig and support trucks 40' x 30', Drill holes 15, 14, and 17 will be over the land 80' x 20'. Location 4: will have 1023'x 15' of over the land road with one new road 100' x 30', drill holes 19,18,21,20,22,23, and 24 will have over the land drill pads 80' x 20'. There will be two locations where the pads will have to re-shaped to allow for the RS drill rig to drill, also there are going to be two areas where the travel way will be modified; the first will be a ramp 100 x 30 feet to access the Little Hermosa deposit; the second area will be the filling in of a ravine to access the Big Hermosa deposit.

Please call me if you have any questions at 575-743-5215. We look forward to hearing from you.

Sincerely

Audie Padilla

Zeolite Operations Superintendent

## 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	X No	My project <u>will exceed 1000 cubic yards of excavation</u> , per permit (drill pads, mud pits, and roads will not be counted in excavated materials).
☐ Yes	X No	Surface disturbances for constructed roads, drill pads and mud pits <u>will</u> <u>exceed 5 acres</u> total for my project.
☐ Yes	X 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	X 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	X 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	X No	My project is located in a known cemetery or other burial ground.
☐ Yes	X 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	X 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	X No	My project is expected to use or using cyanide, mercury amalgam, heap leaching or dump leaching in its operations.
☐ Yes	X 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	X No	My project requires a variance from any part of the Mining Act Rules as part of the permit application.
If you ans impact exp	wer <u>yes</u> to ploration op	any of the above questions, your project <u>does not</u> qualify as a minimal eration.
Confiden	tial Inforn	nation
☐ Yes	X 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."

#### **Timeline**

- Exploration applications must be provided no less than 45 days prior to the anticipated date of operations desired by the applicant.
- Renewal applications shall be filed at least 30 days preceding expiration of the current permit. Permits are valid for one year.
- Approved permit is valid for one year from the date of approval.

## SECTION 1 - OPERATOR INFORMATION (§304.D.1)

Project Name: ST. CLOUD ZEOLITE RS DRILLING EXPLORATION 2013

Nearest Town To Project: WINSTON, NM

Applicant Name and Contact Information (entity obligated under the Mining Act):

Name: St. Cloud Mining Company

Address: P. O. BOX 196 Winston, New Mexico 87943

761 Saint Cloud Road Winston, New Mexico 87943

Office Phone: <u>575-743-5215</u> Cell Phone: <u>N/A</u>

Fax Number: 575-743-3333 Email: apadilla@stcloudmining.com

Name of On-Site Contact, Representative, or Consultant:

Name: <u>Audie Padilla</u>

Darmit Analization D. . . . . . . .

Address: P. O. BOX 196 Winston, New Mexico 87943

761 Saint Cloud Road Winston, New Mexico 87943

Office Phone: <u>575-743-5215</u> Cell Phone: <u>575-740-0385</u>

Fax Number: <u>575-743-3333</u> Email: <u>apadilla@stcloudmining.com</u>

### 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. ST. CLOUD OWENS THE BOWMAN (YELLOWJACKET PIT), EAST BOWMAN PIT, LITTLE HERMOSA PIT, AND THE BIG HERMOSA PIT IS OWNED BY STANLEY AND VICKI ADAMS, WHICH ST. CLOUD HAS OBTAINED WRITTEN PERMISSION. SEE ATTACHED

Attachment

Attachment <u>yes</u>		
	f surface and mineral ownership within interal, indicate as federal mineral, but p	• •
Surface Estate Owner(s):		
Name	Address	Phone #
U.S. BLM		
U.S. Forest Service		
State of NM		
X Private/Corporate		
Name: St. Cloud Mining Company	P. O. Box 196 Winston, NM 87943	575-743-5215
X Other		
Name: Stanlev & Vicki Adams	P. O. Box 81 Winston, NM 87943	575-743-0250

## St. Cloud Mining Company

P.O. Box 196 Winston, New Mexico 87943 Ph: 575-743-5215 Fax: 575-743-3333 website: www.stcloudmining.com

January 23, 2013

Stanley and Vicki Adams **POB 81** Winston, NM 87943

Dear Mr. and Mrs. Adams:

Permission to cross your land from 1/23-2013 to 4/1-2013, in TI25, R8W and Mrs. Adams:

This is to request permission to gain access to a St. Cloud Mining Company mineral deposit by crossing your land. At this time, the only traffic will be Mr. Audie Padilla walking to the deposit and setting a few flags.

Once it is determined how St. Cloud wishes to proceed with developing the deposit, a formal and detailed letter will be sent to you, and your input will be requested.

Thank you for your consideration to this request. Please sign the bottom of this letter indicating you are giving the requested permission.

Sincerely,

Audie Padilla. Plant Superintendent

St. Cloud Mining Company

Permission granted:

### Lease Holder(s) of Surface Estate (if applicable):

Name	Address	Phone #
Mineral Estate Owner(s):		
Name	Address	Phone #
☐ Bureau of Land Management		***
US Forest Service		
State of NM		
Claim/Lease Holder		44444-2-54-44
Name:		
Claim Numbers:		No. of Park
☐ Claim/Lease Holder		
Name:		
Claim Numbers:		
X Other		
Name: St. Cloud Mining Company	P. O. Box 196 Winston NM 87943	575_473_5215

C. Has a Cultural Resource Survey been performed on the site?			
X Yes			
Department of Cultural Affairs Historic Preservation Division Dated December 7, 2007  St. Cloud Permit Modification Application SI006RE.			
Attachment Yes			
D. Has a wildlife survey or vegetation survey been performed for the permit area?			
X Yes			
St. Cloud Mine Application for Permit Modification, SI006RE; Project No. 11815 dated			
November 29, 2007			
Attachment Yes			



#### BILL RICHARDSON Governor

#### STATE OF NEW MEXICO

## DEPARTMENT OF CULTURAL AFFAIRS HISTORIC PRESERVATION DIVISION

BATAAN MEMORIAL BUILDING 407 GALISTEO STREET, SUITE 236 SANTA FE, NEW MEXICO 87501 PHONE (505) 827-6330 FAX (505) 827-6338

DEC 0 7 2007

MINING & MINISTER LA DIVISION

November 30, 2007

Chris Eustice
Permit Lead
Mining Act Reclamation Program
Mining and Minerals Division
1220 South Saint Francis Drive
Santa Fe, NM 87505

Re:

St. Cloud Zeolite Permit Modification Application, SI006RE

Dear Mr. Eustice:

I am writing in response to your request for review and comment on the above referenced application received November 14, 2007. Under rule 19,10.5.505 NMAC, the Director shall evaluate whether a permit modification would adversely impact cultural resources listed on either the National Register of Historic Places or the State Register of Cultural Properties.

There are no cultural resources listed on the National or State Registers within the permit area However, a review of our archeological records database shows that a cultural resource survey of the proposed mining operation was not conducted and there is a potential for unknown archaeological sites to exist with the boundaries of the mining permit.

Although the expansion of mining will be within the original design limits, continued mining and reclamation activities in areas that have not already been disturbed have the potential to affect cultural resources eligible for listing to the State or National Register. Please encourage the mining operator to contact the Historic Preservation Division if any archaeological artifacts are discovered so that we have the opportunity to evaluate the significance of the findings. Section 18-6-11.2 of the New Mexico Cultural Properties Act prohibits the disturbance of unmarked human burials on all lands in New Mexico. If unmarked human burials are discovered, all burial disturbing activity must cease and the local law enforcement and the Office of the Medical Investigator must be notified.

If you have any questions concerning these comments, please do not hesitate to contact me. I can be reached by telephone at 827-4064 or by email at michelle.ensey@state.nm.us.

Sincerely,

Michelle M. Ensey Archaeologist

Log: 82916

GOVERNOR Bill Richardson



DIRECTOR AND SECRETARY
TO THE COMMISSION

Bruce C. Thompson, Ph.D.

Robert S. Jenks, Deputy Director

## STATE OF NEW MEXICO DEPARTMENT OF GAME & FISH

One Wildlife Way
Post Office Box 25112
Santa Fe, NM 87504
Phone: (505) 476-8008
Fax (505) 476-8124

Visit our website at www wildlife state nm us For information call 505/476-8000 To order free publications call 1-800-862-9310 STATE GAME COMMISSION

Alfredo Montoya, Chairman Alcalde, NM

Dr. Tom Arvas, Vice-Chairman Albuquerque, NM

Sandy Buffett, Commissioner Santa Fe, NM

Jim McClintic, Commissioner Albuquerque, NM

Terry Z. Riley, Ph.D., Commissioner Tijeras, NM

M. H. "Dutch" Salmon, Commissioner Silver City, NM

Lao V. Sims, II, Commissioner Hobbs, NM

November 29, 2007

Chris Eustice, Permit Lead EMNRD Mining & Minerals Division 1220 South St. Francis Drive Santa Fe, NM 87505 RECEIVED

JAN 1 1 2008

MINING & MINERALS DIVISION

Re:

St. Cloud Zeolite Mine Application for Permit Modification, SI006RE; NMDGF Project No. 11815

Dear Mr. Eustice:

In response to your letter dated November 9, 2007, the New Mexico Department of Game & Fish (NMDGF) has reviewed the above referenced document. The operator proposes to increase the area of disturbance at the Yellowjacket Pit. No change in financial assurance would be needed as the difference is cancelled out by reclamation accomplished at the Main Pit. Each of these pits is approximately 20 acres in extent. No change in the permit design limit is requested. No site inspection was conducted by NMDGF staff in connection with this consultation request.

No significant impact to wildlife or wildlife habitat would be expected as a result of MMD approval of this modification. Thank you for the opportunity to comment on this permit action. If there are any questions, please contact Rachel Jankowitz at 505-476-8159, or <a href="mailto:riankowitz@state.nm.us">riankowitz@state.nm.us</a>.

Sincerely.

Matthew Wunder, Chief Conservation Services Division

CC:

Ecological Services Field Supervisor, USFWS Pat Mathis, SW Area Habitat Specialist, NMGF

## SECTION 3 - MAPS AND PROJECT LOCATION (§302.D.2)

### A. Project Location:

Township	Range8W	Section3,4,10, & 11 Section
Township	Range	Section

List the drill hole/exploration name and the GPS coordinates for each site.

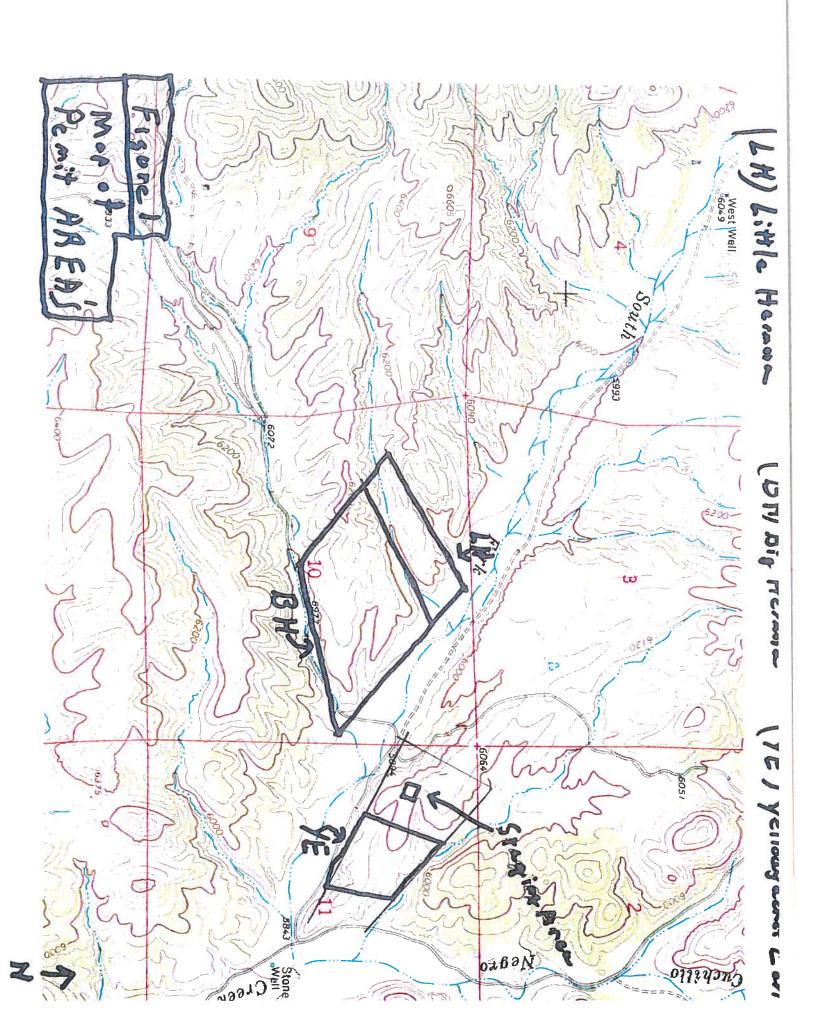
I.D. Number	Northing / Latitude	Easting /
Number	Lautude	Longitude
St Cloud Yellowjack et		
Scy #1	N33 16.922	W107 38.184
Scy # 5	N33 16.940	W107 38.247
Scy #3	N33 16.960	W107 38.219
Scy #2	N33 16.955	W107 38.178
Scy #6	N33 16.951	W107 38.149
Scy #4	N33 16.966	W107 38.257
Scy #7	N33 16.972	W107 38.298
Scy #8	N33 17.006	W107 38.290
Scy #9	N33 17.012	W107 38.328
Bowman		
Pit		
Scb # 10	N33 17.017	W107 38.368
Scb # 11	N33 17.031	W107 38.405
Scb # 12	N33 17.052	W107 38.429
Scb # 13	N33 17.075	W107 38.464
Little Hermosa Pit		
LHP # 17	N33 16.981	W107 38.775
LHP # 16	N33 16.984	W107 38.814
LHP # 14	N33 16.990	W107 38.854
LHP # 15	N33 16.997	W107 38.893

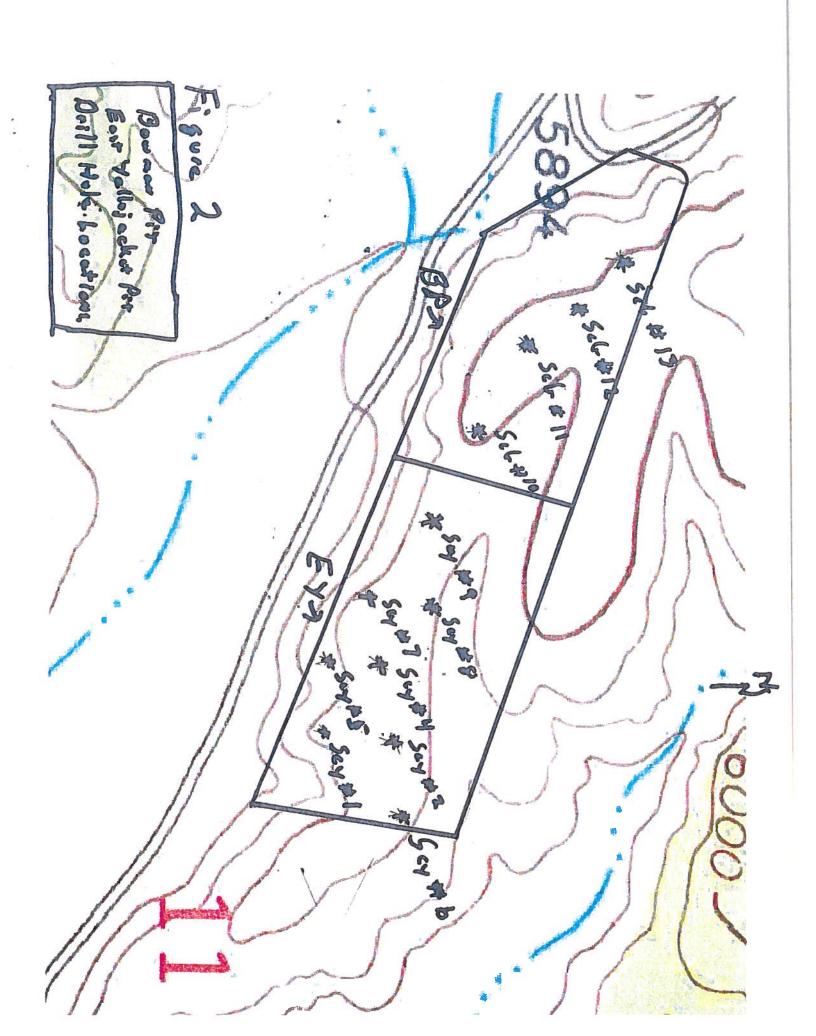
I.D.	Northing /	Easting /
Number	Latitude	Longitude

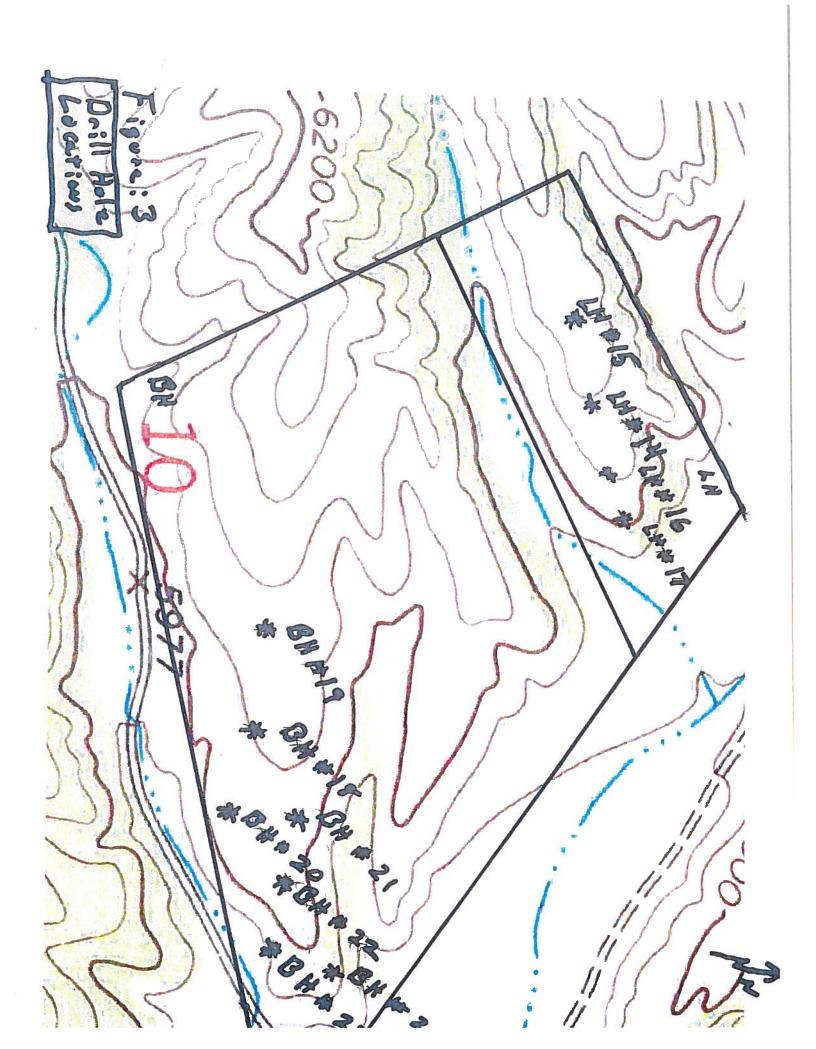
Big Hermosa						
Pit	1					
BHP # 19	N33 16.905	W107 38.900				
BHP # 18	N33 16.899	W107 38.862				
BHP # 20	N33 16.895	W107 38.822	<del></del> -			
BHP # 21	N33 16.927	W107 38.816	—			
BHP # 22	N33 16.924	W107 38.776	_			
BHP # 23	N33 16.927	W107 38.776				
BHP # 24	N33 16.948		_			
DITE # 24	1433 10.346	W107 38.718				
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X NAD8	e system used to 3 Geographic 3 UTM Zone 13 ( 1984		☐ NAD2		one 13 (or	12)
Attachmer	nt <u>Yes</u> (for listing	additional inform	ation on h	oreholes)	1	
				·		
B. Maps	(see application f	orm instructions f	or exampl	es of map	os to be inc	cluded):
Are to	pographic maps i	ncluded with the	application	n that sho	w the follow	wing items:
X Ye	s – The boundary	of the proposed	exploration	on project	Permit Are	ea
X Ye	s – The proposed	d exploration loca	tions (i.e.,	borehole	locations)	
X Ye	es – Existing road	s, new roads and	overland	travel rou	ıtes	

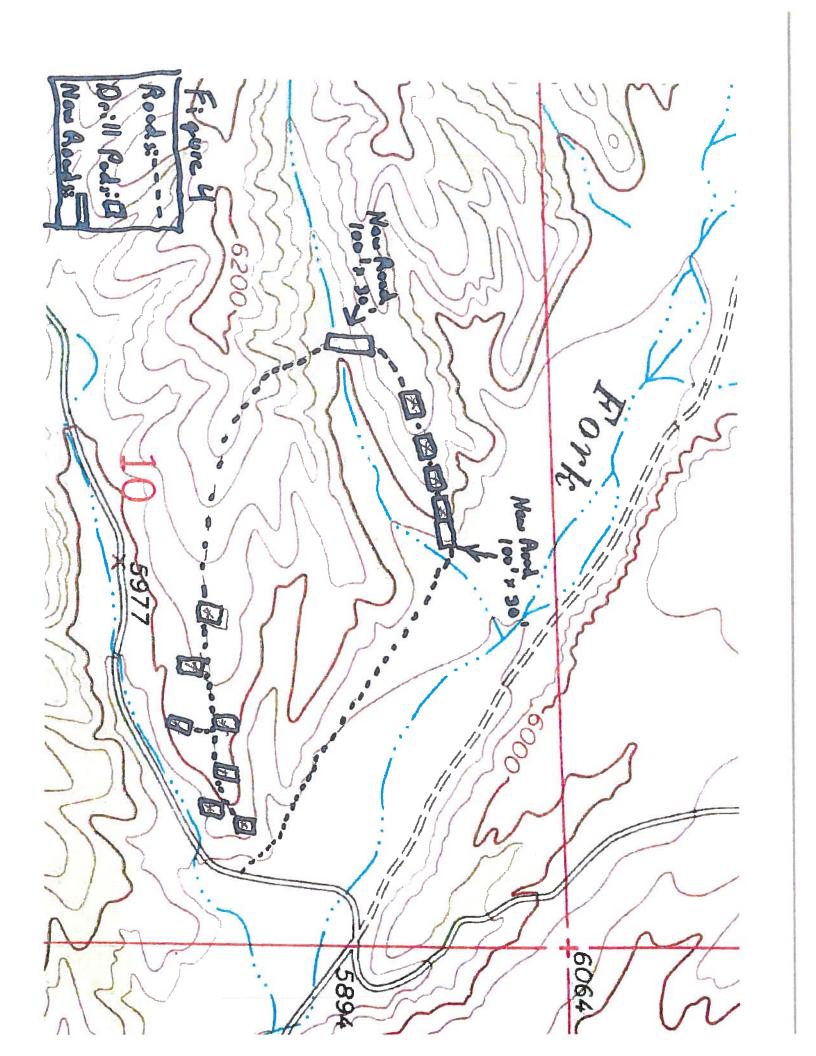
	i						Depth	Ground
			Elevations	Drilling	Bottom	Road	below	Water
Hole #	Longitude coordinates	Latitudes Coordinates	in Ft.	Depth Ft.	depth Ft.	Level Ft.	road Ft.	depth Ft.
St Cloud Yellowjacket								
Scy # 1	N33 16.922	W107 38.184	5956	125	5831	5869	38	50
Scy # 5	N33 16.940	W107 38.247	5974	135	5839	5869	30	50
Scy # 3	N33 16.960	W107 38.219	5965	135	5830	5869	39	50
Scy #2	N33 16.955	W107 38.178	5968	135	5833	5869	36	50
Scy #6	N33 16.951	W107 38.149	5972	135	5837	5869	32	50
Scy #4	N33 16.966	W107 38.257	5968	135	5833	5869	36	50
Scy #7	N33 16.972	W107 38.298	5970	135	5835	5869	34	50
Scy #8	N33 17.006	W107 38.290	5965	135	5830	5869	39	50
Scy #9	N33 17.012	W107 38.328	5965	135	5830	5869	39	50
				1205	-1205		1205	
Bowman Pit					0		0	
Scb # 10	N33 17.017	W107 38.368	5981	120	5861	5900	39	50
Scb # 11	N33 17.031	W107 38.405	5991	125	5866	5900	34	50
Scb # 12	N33 17.052	W107 38.429	6008	135	5873	5900	27	50
Scb # 13	N33 17.075	W107 38.464	5986	125	5861	5900	39	50
				505	-505		505	
Little Hermosa Pit					0		0	
LHP # 17	N33 16.981	W107 38.775	5954	75	5879	5918	39	50
LHP # 16	N33 16.984	W107 38.814	5965	85		5918	<del></del>	
LHP # 14	N33 16.990	W107 38.854	5995	115	5880	5918	38	50
LHP # 15	N33 16.997	W107 38.893	5993	115	5878	5918	40	50
				390	-390		390	
Big Hermosa Pit					0			
BHP # 19	N33 16.905	W107 38.900	6027	145	5882	5918	36	50
BHP # 18	N33 16.899	W107 38.862	6016	135	5881	5918	37	
BHP # 20	N33 16.895	W107 38.822	6007	<del></del>		5918		
BHP # 21	N33 16.927	W107 38.816	6002			5918	-	
BHP # 22	N33 16.924	W107 38.776	6000	<del></del>			_	
BHP # 23	N33 16.927	W107 38.736	5985	105	5880	+	-	<del></del>
BHP # 24	N33 16.948	W107 38.718	5977	<del></del>		5918		
				845				
Total				2945	<del></del>			

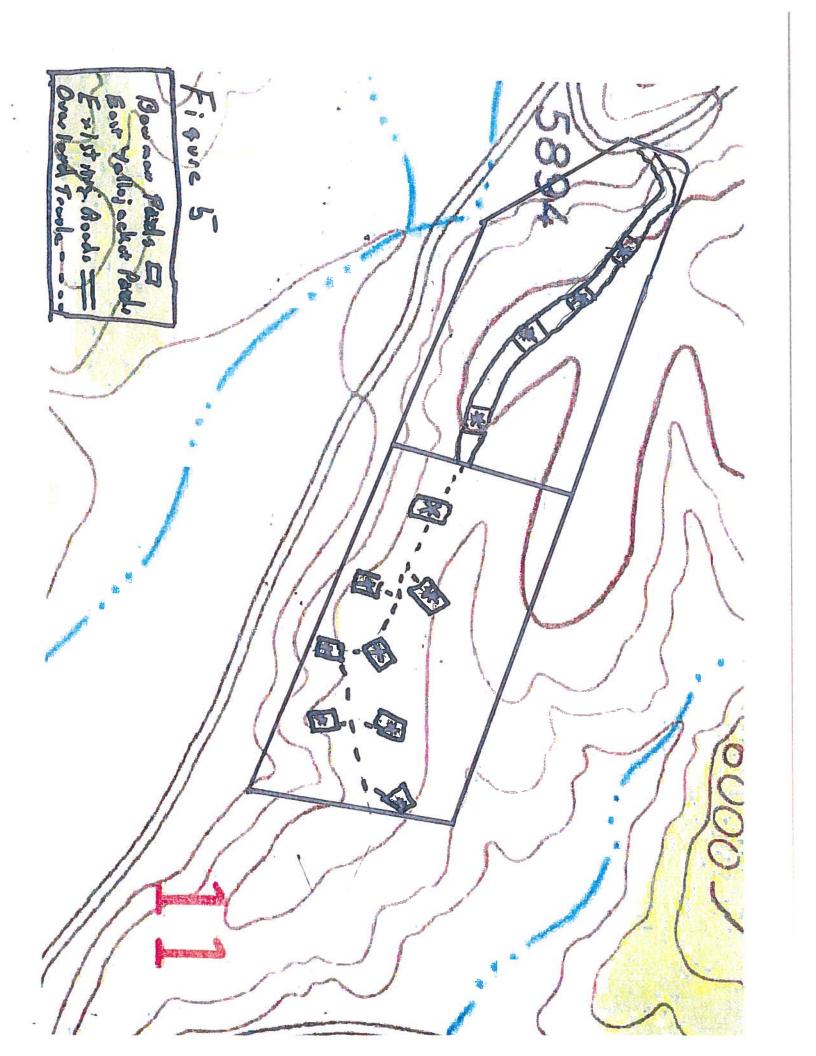
	☐ Yes X N/A – Areas of proposed road improvement
Att	tachments <u>Yes</u>
	Are maps or figures included with the application showing the approximate dimensions and locations of drill pads and other disturbances:
	X Yes – Drill pad dimensions and constructed drill pad locations
Att	rachments <u>Yes</u>
C.	Provide detailed driving directions to access the site: From Truth or Consequences on I-
	25 go North to exit 81, then north on HWY 181 to HWY 52 west to the town of Winston, NM,
	take second street to left, go 3/4 mile take left on gravel road for 8 miles to St Cloud office.
_	

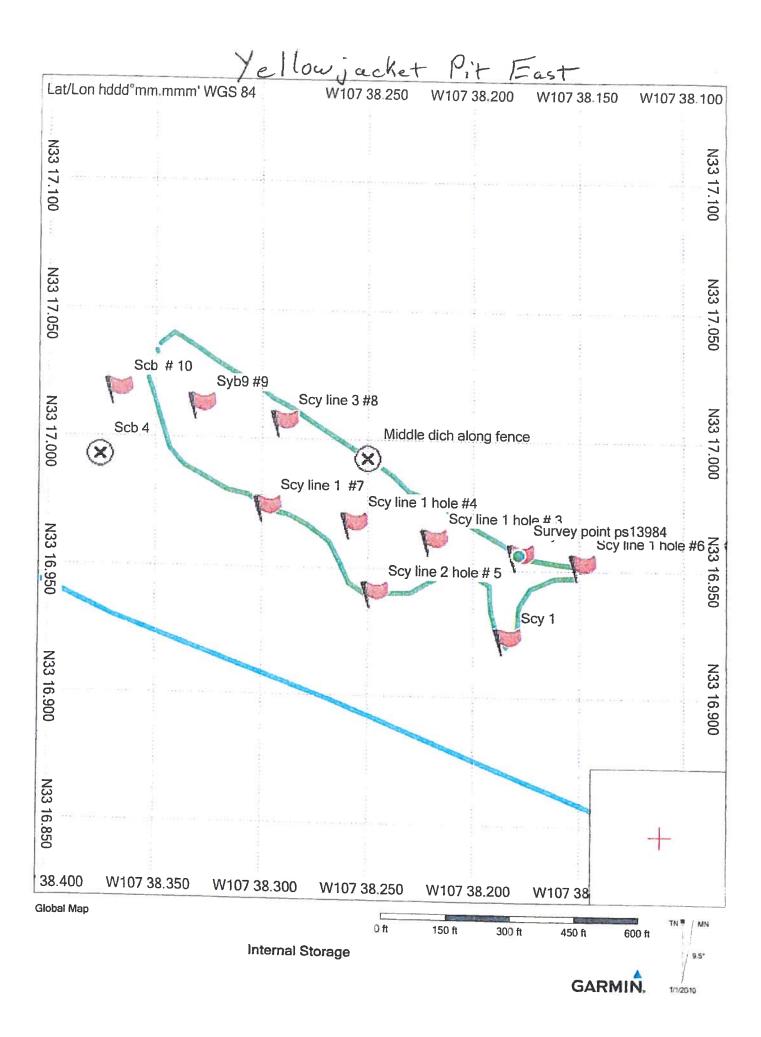




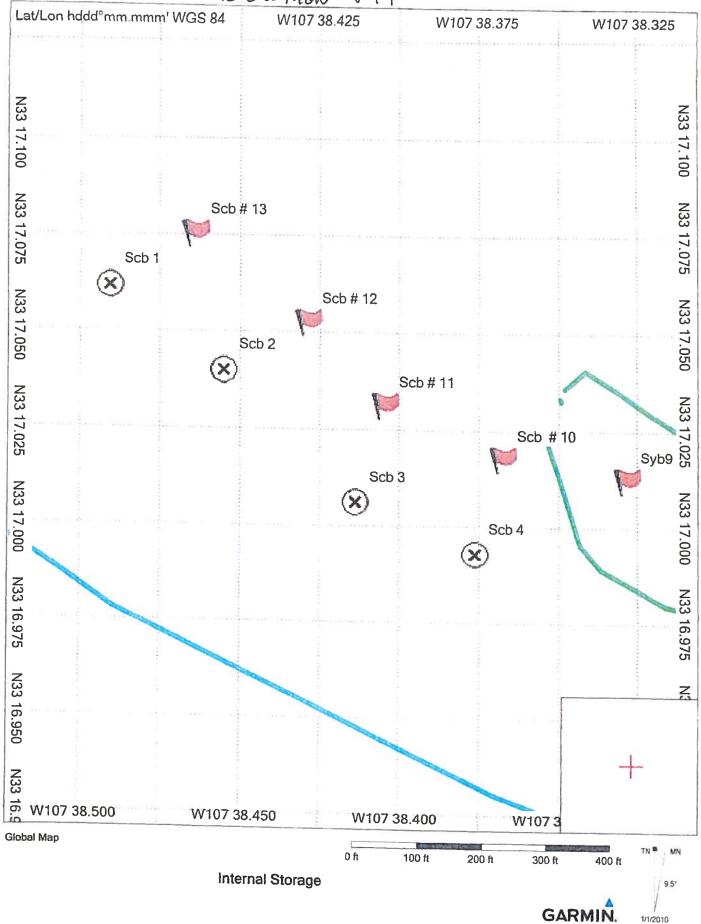


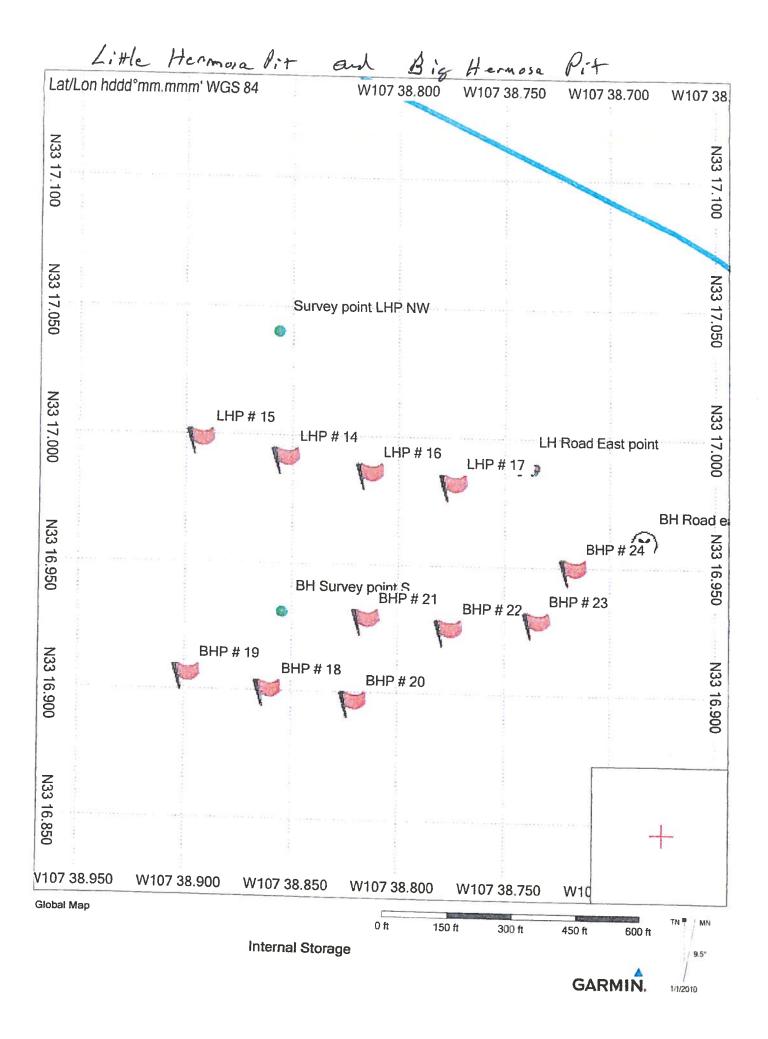




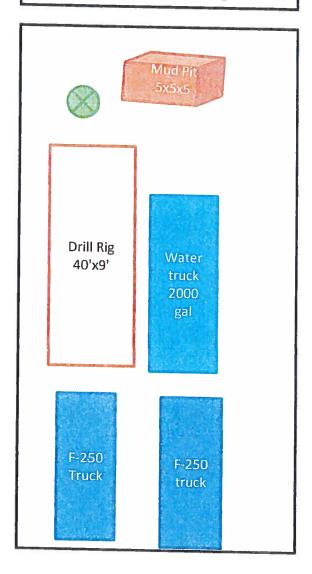


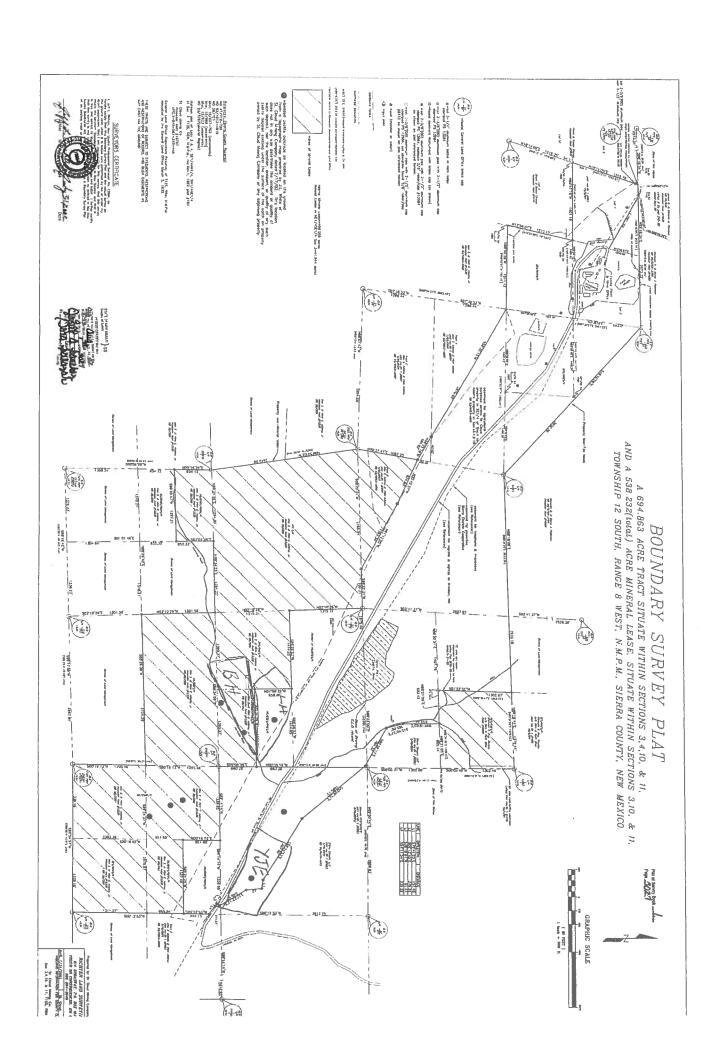
Bowmon Pit





### **Drill Pad 80' x 20'**





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

4.	Anticipated exploration: Start Date: May 6, 2013 End Date: May 27, 2013
3.	List the mineral(s)/element(s) to be explored for: Zeolite
С.	Proposed method(s) of exploration:
X	Air drilling (air rotary, coring, etc.):
	24 # of holes 145 -75 Depth (ft.) 5.5 Diameter (in.)
	24_# of drill pads80Length (ft.)20 Width (ft.)
	Will drill pads be graded/bladed or overland:  Graded/bladed X Overland
	Will drill pads need some mechanical leveling (grading/blading): X Yes
	Approx. Weight of Drill Rig (lbs.) 40,000 Number of Axles: 2
	Total length of drill stem that can be carried on the rig:300 ft
	Is a support pipe truck anticipated?   Yes X No  Weight (Ibs.)
	Weight of support compressor (lbs.):Trailer mounted?
	Anticipated Drilling Contractor: <u>Layne</u> License No WD-368
Χ	Mud/fluid drilling:
	<u>24</u> # of holes <u>20' – 50'</u> Depth (ft.) <u>5.5</u> Diameter (in.)
	24 # of drill pads80' Length (ft.) _20' _ Width (ft.)
	Will drill pads be graded/bladed or overland: Graded/bladed X Overland
	Will drill pads need some mechanical leveling (grading/blading): X Yes ☐ No
	Will a closed loop system be used or will mud/fluid pits be used? Mud Pits

If mud/fluid pits are proposed:
Anticipated excavating equipment: Cat 446 Backhoe
How will excavating equipment be transported to the site (i.e., driven, low-boy, etc.):
Driven
Will mud pits be lined?: ☐ Yes X No
If yes, proposed material to line the mud pits:
Approx. Weight of Drill Rig (lbs.) 40,000 Number of Axles: 2
Anticipated Drilling Contractor <u>Layne</u> License No. <u>WD-368</u>
Test pits / exploratory trenches:
# of pitsLength (ft.)Width (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:

TOTAL ACREAGE TO BE DISTURBED DUE TO DRILL PADS = 0.87936 acres (to convert to acres, multiply total square footage of drill pads by 0.0000229)

D.	Dis	posal of drill cuttings					
	If this exploration project is for uranium or other radioactive elements/minerals, applicant agrees to perform a gamma radiation survey at each drill site prior to, and after, exploration activities. Applicant/Owner/Operator agrees to restore gamma radiation levels at each drill site to pre-exploration levels.   Yes No X N/A  Will excess drill cuttings be buried at each drill site location or within a single disposal pit?  X At each drill pad location   Within a single disposal pit						
		lf a <u>single disposal pit</u> is pr	oposed, please p	rovide the following:			
		Description or GPS coordir	nates of the propo	osed cuttings disposal pit location:			
	١	Dimensions of the single p	roposed cuttings	disposal pit (length, width, and depth):	,		
	-	Length (ft.)		Width (ft.)Depth (	ft.)		
(to	con	ACREAGE TO BE DIS vert to acres, multiply tot er Supporting Equipment (	al square footag	ge of disposal pit by 0.0000229)	_acres		
	X	4x4 Trucks/Vehicles	Quantity:	2			
	Χ	Water Truck	Weight (lbs.):	26000			
		Geophysical Truck	Weight (lbs.):				
		Pipe Truck (rig support)	Weight (lbs.):				
	X	Bulldozer	Type:	Cat D-8N			
	X	Backhoe	Туре:	Cat 446			
		Trackhoe	Type:				
		Scaper/Grader	Type:				
		Trailers	Quantity/Type:				
		Portable Toilet	Quantity:				
	X	Other	List:	W750 RC Rig 40,000 lbs			

### F. Roads and Overland Travel:

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

Description of <i>NEW</i> Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
Ramp	100	30	0.0687
Fill in ravine for crossing	100	30	0.0687
TOTAL ACRES DISTURBED BY NEW ROA	D CONSTRU	JCTION :	0.01374
Describe how new roads will be constructed: Ran	np will be	constructe	ed using existin
		<del></del>	-
List for <u>extension or widening of existing</u> roads:			
List for <u>extension or widening of existing</u> roads:  Description of Modification to <i>EXISTING</i> Roads	Length (ft.)	Width (ft.)	Total Acres (length x width x 0.0000229)
List for <u>extension or widening of existing</u> roads:  Description of Modification to <i>EXISTING</i> Roads			Acres (length x width
Description of Modification to EXISTING Roads	(ft.)	(ft.)	Acres (length x width x 0.0000229)
	(ft.)	(ft.)	Acres (length x width x 0.0000229)
Description of Modification to EXISTING Roads	(ft.)	(ft.)	Acres (length x width x 0.0000229)
Description of Modification to EXISTING Roads  TOTAL ACRES DISTURBED BY ROA	(ft.)	(ft.)	Acres (length x width x 0.0000229)

### SECTION 5 - CHEMICAL USE (§302.D.4)

A. Check any and all chemicals that will be used for this project. X Drilling Mud (i.e., EZ Mud) Type/Quantity: EZ Mud, N seal, Quik Gel 500# X Diesel Fuel Quantity: 600 gal Down-hole Lubricants Type/Quantity: **Lost Circulation Materials** Type/Quantity: X Oils/Grease Quantity: 15 lb ☐ Gasoline Quantity: ☐ Hydraulic Fluid Quantity: ☐ Ethylene Glycol Quantity: Cement Type/Quantity: 250 bags of Portland Cement X Water Source: St. Cloud Mining Company Bentonite Quantity: ☐ Fertilizer Type/Quantity: X Other Type/Quantity: Zeolite 100# B. Describe, in detail, a plan for the containment, use and disposal of all chemicals listed above: St. Cloud Will follow its Spill Prevention Control and Countermeasure Plan in the event of a spill St cloud will use an absorbent Zeolite to absorb spill, then remove contaminated material into a 55 gallon drum and dispose in accordance to State and Federal regulations. The Drilling mud in the pit will allowed to dry then cover with the top soil. C. Describe where equipment fueling/refueling will occur: All fueling will occur at the Bowman Pit next to the staging area .

All	spills or	now hazardous material spills/leaks will be handled: leaks will be absorbed with Zeolite or absorbent pads and disposed in a
CO	ntamination	55 gal drum. There will be a an emergency spill kit on site.
E.	Identify sp	ill cleanup materials that will be kept on-site (check all that apply):
		Bentonite clay or cat litter
	X	Adsorbent pads, rolls, mats, socks, pillows, dikes, etc.
	X	Drum or barrel for containing contaminated soil/adsorbent materials
	X	Other/list: Emergency spill kit
		Other/list:
		Other/list:
F.	immediat	/owner/representative agrees to immediately notify the State of New Mexico ely of any spills of hazardous materials (see page 1 of this application for phone to notify): X Yes \( \subseteq \text{No} \)

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

Α.	Provide an estimate of depth to ground water and the total dissolved solids (TDS) concentration.
	Depth to groundwater (ft.):50ft TDS concentration (mg/L): 360 mg/l
	Describe the source of this information:Measurements by nearby monitoring well,
	provided by a pervious discharge permit application (DP-314) approved February 3, 1994
B.	Will dewatering activities be conducted: Yes X No
	If yes, please describe:
C.	Is groundwater anticipated to be encountered during exploration: Yes X 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?   Yes
	Have you completed Form WD-08 (Well plugging plan of operations) and mailed it to the District Office of the State Engineer? $\ \square$ Yes
	Attachment (copies of the completed WR-07 and WD-08 forms)

D. Exploration Borehole Abandonment

Dry	y 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.
X	<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.
	Dry hole abandonment (option 5): 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:

D.	Applicant agrees to contain any water produced from the exploration borehole at the drill site and acknowledges that discharge of this water to a watercourse may be a violation of the Federal Clean Water Act: X Yes No
E.	Is any drilling proposed to occur <u>within the channel</u> of any perennial, intermittent, or ephemeral streams?
F.	Is any drilling anticipated to occur within 100 feet of any perennial, intermittent, or ephemeral streams? X 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 X Yes \sum No				
	Describe how topsoil will be salvaged prior to initiation of exploration activities (check all the apply):				
		N/A – no construction v	vork will occur, the	erefore no soil salvage is needed.	
		Excavated from drill pa		_	
	X	Excavated from road ir	mprovements/con	struction and stored adjacent to road	
	X	Excavated from mud/fl	uid pits and stora	ge at each pit	
		Other, describe:			
		-			
В.	Ero	sion Control			
	Describe the best management practices that will be implemented to control erosion:			at will be implemented to control erosion:	
	X	Silt fencing	Location:	At the base of the ravine and Ramp.	
	X	Straw waddles	Location:	Around Stockpiles	
		Straw bales	Location:		
		Ditches/swales	Location:		
		Berms/dikes/dams	Location:		
		Sediment basins	Location:		
		Other or N/A	Type/Location:		

C.	Wildlife Protection / Noxious Weed Prevention					
	Will the perimeter of drill pits be fenced to prevent wildlife entrapment? X Yes ☐ No					
	Proposed pit perimeter fence material: Plastic Fence 48 in high.					
	Describe how the pit perimeter fencing will be installed and secured (i.e., T-posts, wooden stakes, etc.):  The fence will be installed and secured with T-posts.					
	Will at least one side of the interior of the drill pits be sloped at 3:1 as a ramp for wildlife escape? X 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: X Yes \sum No					
D.	Reclamation Details					
	Describe in general how re-contouring or re-establishment of the surface topography will be restored:					
	Upon completion of the work, the disturbed areas will be re-graded and scarified to match the existing terrain. The mud pits will be backfilled and graded to the original contour of the drill pad site. All equipment and any waste materials will be removed and properly disposed of including any petroleum product spills.					
	Describe how the reclamation of portals, adits, drilling fluid/mud and/or waste pits, shafts, ponds, roads and other disturbances will be performed:  N/A					

Is seeding of the reclaimed areas proposed: X Yes			
Plant mix to be used in the re-es	stablishment of vegetation:		
<ul> <li>☐ US Forest Service specified mix applied through broadcast at their recommended rate</li> <li>☐ BLM specified mix applied through broadcast at their recommended rate</li> <li>X Other: Seeds Mix approved by MMD May 2007 modification of SI006RE</li> </ul>			
Plant Name	Seeding Rate (lbs./acre)		

Table 1. Proposed Winston seed mix.

Common Name	Proportion (%)
Blue grama	5.4
Sand dropseed	0.6
Sideoats grama	24.2
Indian ricegrass	24.2
Fourwing saltbush	4.0
Desert globemallow	1.0
Western wheatgrass	27.4
Yellow sweetclover	8.1
Apache plume	1.0
California bluebells	1.0
Yellow prairie coneflower	1.0
Antelope bitterbrush	2.0
Total	99.9

	Broadcast applied or drill-seeded: X Broadcast
	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  X Other/describe: primary tillage using a dull disc at a depth of 3" overland traveled where
	accessible if not then we will light raking of soil over seeds in area for overland travel. On
	graded new roads will disc after reencountering.
	Mulch Use:  X 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
E.	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:  X Yes   No
	Anticipated Start of Reclamation:
	X 0-30 days after completion of drilling  31-60 days after completion of drilling  Other/specify:

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

Α.	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.	
	<ul><li>☐ Surety Bond</li><li>X Letter of Credit</li><li>☐ Cash Account / Certificate of Deposit</li></ul>	
	Estimated amount of financial assurance:	
	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.	
	☐ Money Order/Cashier's Check ☐ Check	
	Check Number :	
	Financial Institution: (1)0//s Fargo	

## 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 or	Authorized Agent: Oud: Parlile	
Name (type or print):	Audie Padilla	
Title/Position:	Plant Manager	
Date:	202/13	