

STATE OF NEVADA COMMISSION ON MINERAL RESOURCES DIVISION OF MINERALS

400 W. King Street, Suite 106 Carson City, Nevada 89703 (775) 684-7040 | Fax (775) 684-7052 http://minerals.nv.gov Date Received

County___

NDOM Permit Number_____ FOR DIVISION USE ONLY

DISSOLVED MINERAL RESOURCE EXPLORATION WELL PERMIT APPLICATION

Applicant/Operato	or Name:			
		State /Draw		
		State/P10V Zin Code:		-
•		ineral resource exploration w		-
, , ,			•	
(if applicant is a co	orporation, show state and	d date of incorporation; if a pa	rtnership, list names of partner	rs.)
· · · _	New Exploration Well Permit Extension (NDO)		to Well Conversion ate below any changes to original permit)	
	Permit Extension Reas			
Applicant is:	Land Owner	ease/Claim Holder		
Land Status (choos				
Federal <i>(BLM, U</i>				
Mining Claim:	, ,			
Project Name:			NVN#	
Non Federal				
APN#:				
Bond Type:				
Amount:		Number:		
Croundwater Real	in Name and Number		Area With Limitations	?
Gloundwater bas				-
(Well proposed to be dril	lled within areas with limitations may	y require Blowout Prevention Equipment		
Location of Walls				
Location of Well:				
County:			-	
1/4 0	of the ¼ of	Sec., Township	NS, Range	Е
UTM East:	_	or Longitude:		
UTM North:	: NAD83 WGS84	Latitude: 4 <i>M.D.B.& M</i> .		
DISSOLVED MINE	KAL RESOURCE EXPLOR	ATION WELL PERMIT APPLIC	ATION PAGE 1 – 03/1	17/2023

Drilling Contractor (if know	wn): Layne					
	Address:	5810 E. 77th	n Ave			
City	, State Zip:	Commerce (City, CO 80022			
Purpose of Well:	Mineral Expl					
Drill Rig Type:	Atlas Copco	RD20	0 1 01 #		0.50.8.00 1. 0.0075	0.0005 1
Surface Hole Diameter:	32 inches		Casing Size/Le	-	0-50 ft 26-in, 0-2975	
Expected Total Depth:	2,995 feet		Casing Weight		85.8#/ft / 27.7#/f	
			Casing Schedu	le/Grade	A53B and A606	Type 4, 0.375 wall
Blowout Prevention Equip	pment Rating	g: 🔘 No	ne 💽 2000) psi	🖸 3000 psi	🔘 5000 psi
			>1000 psi rot	ating dive	rter	
Fluid Management Plan -	NAC 534B.	140(1)(C):		Ū		
Please see attached Narrativ						
(Describe Here or Attach Additiona	i Fages)					
Contamination Prevention	/Cementing	Plan - NAC	534B 140(1)(D).			
Please see attached Narrativ						
T lease see allached Marrally	76, 060001 0.0			ematic.		
(Describe Here or Attach Additiona	IPages, must inc	clude Well Schem	natic)			
Flow Monitoring and Plug	aina Plan - N	NAC 534B.14	40(1)(E) / NAC 5	34B.180:		
Please see attached Narrativ						
(Describe Here or Attach Additiona	l Pages)					
Drilling will commence ap	proximately	on: August	15, 2023			
				91	41-1-0	
	S	-	Applicant/Agent:		Jall Tu	
		Pri	nted Name/Title:		rey / Project Hydro	ogeologíst
			Date:	7/7/2023		
		An ap	plication submitted with	hout a signati	ure and date will not be	e considered for approval.

----Attach \$1,000.00 Application Fee Per NAC 534B -----

----- TO BE COMPLETED BY DIVISION -----

CONDITIONS OF PERMIT

- 1. All permittees must comply with appropriate sections of the Dissolved Mineral Resource Regulations of the Division of Minerals and with applicable rules and regulations of state and federal agencies.
- 2. For a well located on non-federal land, a bond in an amount determined by the Division to be necessary to properly plug the well in accordance with NAC 534B must be included.
- 3. Well Permit Expires two (2) years from date of approval.
- 4. See attached Conditions of Approval.

6. Additional Conditions/Comments

Α.	
В.	
C.	

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal, and local agencies.

PERMIT APPROVAL

Approved ______ with the conditions noted above.

Permit Number _____

Administrator Division of Minerals

Complete Drilling Plan of Origin Minerals Exploration, LLC Big Smoky Valley

1.0 Project Description:

Origin Minerals Exploration, LLC (OML) is proposing to conduct mineral exploration activities at the Big Smoky Valley Lithium Exploration Project (Project) located in portions of or all of Sections 4, 5, 6, and 33, Township 13 North (T13N), Range 44 East (R44E), Mount Diablo Base and Meridian, Nye County, Nevada (Project Area). OML plans to conduct exploration drilling and groundwater chemistry characterization from one aquifer Exploration Test Well (ETW), which will be accessed from an existing road network and proposed access road as shown in the attached area map. The ETW is proposed to be drilled to a Total Depth (TD) of 2,995 feet. The total planned surface disturbance outlined in the Notice NVNV-106300288 will be 3.89 acres. The total proposed Reclamation Cost Estimate is \$17,884.00 (Attachment 1).

2.0 Proposed Exploration Disturbance:

OML will utilize existing roads and approximately 11,464 feet of constructed road at a 12-foot running width. The constructed drill pad will have the dimensions of 100 feet wide by 150 feet long and will be graveled depending on site conditions. Two sumps will be constructed in sequence with the individual dimensions (including the material piles) of 75 feet long by 50 feet wide with a total sump volume of 2,778 cubic yards. Each sump will be constructed next to the drill site to contain drill cuttings and manage drilling fluids. Sumps will be fenced and sloped on one end to facilitate wildlife or humans exiting if necessary. The location of the ETW, existing access, and planned surface disturbance are shown within the Notice in Attachment 1.

3.0 Description of Planned Operations:

OML will address the requirements detailed below per (NAC5348.1601.(a) through 2.(d) as applicable for the proposed ETW.

4.0 Fluid Management Plan (NAC 5348):

In order to isolate zones of varying water quality and prevent migration of formation fluids between disparate aquifers, OML will take a number of preventative measures including utilizing polymer-based drilling fluid. OML and its contractors will also consistently monitor the flow of fluid to ensure no remedial measures are required after drilling operations have begun to prevent unwanted vertical migration of formation fluid. OML proposes to drill using a closed-loop "mud" (drilling fluid) circulation system. Hydrological control of the borehole is maintained by controlling drilling fluid losses and gains with the use of specially selected drilling products and associated materials added to make-up water. Appropriate selection of drilling fluids provides a balance of wellbore pressures resulting in negligible comingling or migration of fluids to the surrounding formations. The drilling fluids are adjusted during drilling with depth and aquifer characteristics. This produces a drilling fluid with chemical and physical properties that build a filter cake that "seals" the borehole and adjacent formation from significant loss or gain of fluid in the borehole. The differential pressure created by the increase in fluid density in the borehole is controlled to be greater than the formation pressures. None of the proposed drilling fluid products are hazardous. All drilling fluid products will be stored in a manner consistent with the product manufacturer recommendations and that will not present hazards to wildlife or other animals and prevent any release to the environment. Bagged or dry bulk materials will be covered, and any liquid additives will be kept in secure, leak-proof container.

Drilling fluid products will be used as a circulating medium to lubricate and cool the bit and drill rods, control borehole fluid losses or gains, and remove cuttings or solids from the borehole during drilling operations. The drilling fluid will be continuously adjusted to ensure compatibility with the salinity, pH, and carbonate content of the formation fluids and the respective intervals to be bored. The proposed fluid mixes will ensure a near native-state boring can be recovered. All proposed drilling fluid products will be used as intended by the product manufacturer.

The proposed drilling method assures OML will have the ability to collect geological samples to the targeted drill depths while maintaining hydrological control of the borehole during drilling operations with the smallest equipment footprint required. Safety Data Sheets will be kept on site for all materials used. Quantities of drilling fluid materials that are present on the project will be limited to those necessary to do the job, which may include hydraulically terminating artesian flow should it be necessary.

Drilling fluid density, pump pressure, and pump flow rates will be carefully monitored to prevent significant fluid losses to surrounding formations from the borehole. Increasing drilling fluid density increases the differential pressure accordingly and serves as the primary control for any fluid gains into the borehole that might also become artesian during drilling operations. The drilling fluid is continuously monitored, and the physical and chemical properties continuously adjusted by the addition of make-up water and drilling fluid products during drilling operations to maintain the desired properties to control borehole fluid loss or gain as drilling progresses.

In the event of significant observed lost circulation to the formation, the drilling team will consider appropriate action, which typically includes reducing the mud density (water dilution) and utilizing/adding lost circulation materials (LCM) such as Maxi-Seal / Multi-Seal to the drilling fluid to help cure/seal the loss zone. LCM is mixed in the drilling fluid, then pumped to the loss zone through the drill pipe. Repeated LCM treatments or a cement plug across the loss zone may be required depending on severity. Significant loss zones are not anticipated. The predicted intercepted lithology for the proposed well is primarily homogeneous sediments, with mostly very fine particle size, including clay and claystone, with low to no fracturing. None of the proposed LCM are hazardous.

In the event of a significant fluid gain, such as artesian flows, the drilling team will consider appropriate action which generally includes increasing the mud density to balance formation pressures. Appropriate weighting materials (e.g., Barite, Soda Ash) will be added to the mud system to obtain and maintain the appropriate mud density.

A qualified professional will be at the drill site at all times during drilling to record important hydrogeological information such as water table levels, water inflow rates, drilling fluid temperature, fracture/fault zones, voids, zones of lost circulation, and other useful information including monitoring for surface leaks, should they occur. Water flow amounts exceeding that used for establishing normal drilling circulation will be monitored for quantity and color. The qualified professional will help manage flow and recommend additives to control mud weight, filtrate, and other properties while drilling to minimize lost circulation and/or fluid flow.

OML will use a portable, fully-contained mud system with the capability to remove drill cuttings (solids) from the circulating drilling fluid to maintain the desired fluid density. The drilling fluid (mud) is captured at the surface drill collar, routed to the mud system where the combination of a shaking screen, centrifuge, and select polymers remove the fine (<200 microns) rock cuttings (drill solids) produced by the rotating

bit while advancing the borehole through the country bedrock. No uncontrolled flow of drilling fluids will be allowed. Processed drilling fluid is then reconditioned as needed with additional water and other drilling fluid products, then returned to the borehole to maintain circulation in a closed loop. Excess drilling fluids and drill cuttings will be discharged to the adjacent sumps.

Finally, OML is willing to abandon the well pursuant to Nevada Administrative Code (NAC) 534B.180 in an expediated fashion in the event that vertical migration of formation fluid between discrete zones ultimately does not warrant or allow for the well to be kept open longer than a brief period of time. OML is committed to working closely with the relevant regulatory authorities in all respects and will heed the advice of the authorities with respect to any corrective/remedial measures and/or expedited abandonment timelines ultimately required by the authorities before the ETW is drilled.

4.1 Description of Planned Operations:

- Rotating heads with pressure ratings of greater than 1,000 pounds per square inch will be used for blowout control while drilling the borehole. A valve will be used on the flow/discharge line to control flow and shut in low or high pressure boreholes. An API certified Washington Rotating[™] diverter model 1358-C will be utilized during drilling of the borehole. The diverter specifications are included in Attachment 2.
- Temperature of the mud that is returned up the hole will be monitored continuously by the operator during the drilling of the well whenever temperatures of the drilling fluids at the surface reach 125 degrees Fahrenheit. The temperature of the mud will be recorded by the well driller after each string of drill rod is installed.

Water to be utilized for mixing drilling fluids will be purchased from a nearby water well or from the town of Fallon, NV. Drill cuttings and mud will be maintained within the mud system of the rig, with the excess contained in onsite mud sumps. Best Management Practices (BMPs) for sediment control will be utilized during construction, operation, and reclamation to minimize sedimentation from disturbed areas. Sediment control structures are outlined under Section 8 of the Notice (Attachment 1).

5.0 Contamination Prevention/Cementing Plan (NAC 5348.160.):

The well will be drilled under the supervision of a Nevada licensed well driller. One (1) bucket auger drilling rig will set 26-inch diameter surface conductor casing in a 32-inch borehole to 50 ft below land surface (bls) and cement the conductor pipe to the surface with 12-sack sand slurry via tremie pipe. All precollared holes will be equipped with a secure cap to prevent anything falling in. An Atlas-Copco RD20 top head drive drilling rig will advance a 14.75-inch borehole to a depth of 2,995 ft bls and be cased with 8-5/8-inch casing, with blank casing from the surface to 900 ft bls. A 12-sack sand slurry seal will be installed in the anulus of the borehole and blank casing from the surface to 870 ft bls. The surface casing and cement seal to 870 ft bls will control formation fluids and protect groundwater. This casing plan ensures that casing will be set below all known or reasonably estimated levels of good quality water, protect such freshwater aquifers and prevent blowouts or uncontrolled flows. The proposed blank cased length was determined from a review of the depth to water and freshwater column data from the nearest wells and geophysical data, and is included as a conservative measure. Magnetotelluric surveys in the area show very low resistivities at a depth of 750 ft indicative of brackish water. Cement seals and casing lengths are placed to a minimum depth of 100 feet below the base of the brackish water to protect the upper aquifer. Additionally, OML completed a review of the nearest wells to the drilling site when planning to what depth to set the surface casing and cement seal, and found that the nearest wells range from 220 to 320 ft bls 4 miles west of the proposed drilling location, and 530 ft 5 miles east from the proposed test well. The nearest well logs to the test well are included in the attached Attachment 3.

The RD20 drill rig will advance a 14.75-inch borehole to 2,995 ft bls using the flooded reverse drilling method, and will install 900 ft of 8.625-inch blank casing, 2,055 ft of 8.625-inch louvered well screen, and 20 ft of 8.625-inch blank casing with a bullnose bottom cap on the bottom. The well casing will be gravel packed via tremie pipe with #8 silica gravel from 875 ft to 2,995 ft. A five (5) ft #40 sand transitional seal will be installed from 870-875 ft, and the anulus of the borehole/intermediate conductor and well casing will be sealed with 12-sack sand slurry from 870 ft to surface via tremie pipe. The RD20 rotary drilling rig will set and fully cement surface casing, retrieve drill cutting samples, and set gravel pack and cement well casing. Well construction details are included in the attached Attachment 4.

6.0 Flow Monitoring and Plugging Plan (NAC 534B.180):

Water extracted during the drilling process will be managed in the sump; the volume will be estimated and recorded. After completion of the ETW, water volume will be recorded using a flow meter. Upon completion of the testing and analysis of dissolved mineral resource potential, the well may be converted to a groundwater monitoring well for use in baseline studies by installing a vibrating wire piezometer and grouting the entire well to the surface with neat cement. Most likely, however, the ETW will be promptly abandoned pursuant to NAC 534B.IBO. All necessary reports and documentation will be provided to the relevant regulatory authorities as soon as practicable and, in all cases, within the permissible timeline.

All holes drilled for the purpose of mineral exploration shall be plugged and sealed in a manner consistent with State of Nevada regulations and the stricter requirements described below. Project activities will be conducted in a manner that prevents adverse changes in groundwater quality and quantity. Abandonment of drill holes shall ensure the safety of people, livestock, wildlife, and machinery within the project area. A drill rig with appropriate support equipment will be used to abandon each well when it is no longer needed.

Pursuant to Nevada Administrative Code 534B Section 35.1(a), perforated sections of the casing, as well as the portion of unperforated casing occurring below the uppermost perforations will be plugged by placing cement grout by tremie pipe in an upward direction from the bottom of the well to 100 feet above the uppermost perforated casing. Unperforated portions of the well 100 feet above the plug will be plugged pursuant to NAC 534B Sec 35.3 with uncontaminated fill to within 20 feet of the surface. The remaining 20 feet of casing will be plugged with cement grout.

During abandonment, a cement grout meeting the formulation standards required by Nevada Administrative Code (NAC) 534.060 will be mixed at the surface, pumped under pressure through the tremie pipe, and circulated from the bottom of the borehole through the annulus in a manner meeting the general plugging requirements of NAC 534.420 and NAC 534.426 for general or artesian conditions. The use of cement grout and tremie placement method will isolate the borehole from the local hydrogeological regime and prevent the vertical movement of any groundwater penetrated by the borehole. This will include the annular space surrounding any casing left down the hole.

After the rig has left the site and the cement grout has been allowed to stabilize in the borehole, a 20- foot cement surface plug extending from three (3) feet below the ground surface will be placed in the top of each borehole. Portland cement mixed with water and aggregates, or bagged cement mixed with water, will be used for the surface plug. Any remaining surface casing will be removed below the ground surface

to a sufficient depth that will not interfere with general reclamation requirements to eliminate physical hazards to humans and wild or domestic animals as well as to prevent ponding of water directly over the borehole, allow for placement of growth media, and allow for passage of earthmoving equipment required for reclamation operations.

A record of each borehole will be kept by OML in the BLM Borehole Abandonment Report as required by NAC 534.4369 to demonstrate:

- The dates on which the borehole is constructed and plugged;
- The location of the borehole as shown by the public land survey system;
- The depth and diameter of the borehole;
- The depth at which groundwater is encountered in the borehole; and,
- The methods and materials used to plug the borehole.

Driller and geological logs typically record this information and also contain information concerning significant changes in fluid losses or gains as drilling progresses in each borehole. The type and volume of materials used in zones of significant gain or loss indicate the hydrological conditions encountered as borehole drilling progresses. The depth to the first instance of groundwater is difficult to determine with certainty in a fluid drilled borehole and any such data reported may not reflect actual subsurface hydrological conditions.

7.0 Surface & Groundwater - Erosion Prevention and Control

OML will conduct exploration operations in a manner that minimizes soil erosion. Equipment will not be operated when ground conditions are such that excessive resource damage or increased sediment transport will occur. BMPs will be utilized to control erosion and sedimentation.

BMPs for sediment control will be employed as needed during construction, operation, and reclamation to minimize sedimentation of disturbed areas. Sediment control structures will include, but not be limited to, fabric and/or certified weed free straw bale filter fences, siltation or filter berms, mud sumps and down gradient drainage channels to prevent unnecessary or undue degradation to the environment. Sediment traps (sumps), constructed as necessary adjacent to drill sites, will be used to settle drill cuttings and prevent uncontrolled release of drill cuttings. To control erosion from roads and drill sites, and from the unlikely event of drill cuttings being released, weed-free straw bales and silt fences will be placed in drainages to capture sediment, where required.

8.0 Surface & Groundwater-Stormwater and Control

Sediment controls such as straw or hay bales, filter fences or other controls will be implemented as necessary. Where straw or hay bales are required, only certified, weed free product will be used.

While not anticipated due to the environment and generally flat terrain, stormwater controls will be constructed or installed where necessary to prevent or minimize erosion and sedimentation. Drainage structures will consist of, but not be limited to, water bars, borrow ditches, contour furrows and culverts sized to handle maximum seasonal water flows. Disturbed areas will be broadcast-seeded with an approved weed free seed mix to reduce erosion immediately after construction. Once an area has been revegetated, notices and/or signs may be posted to allow vegetation to establish while reducing or restricting vehicular traffic.

9.0 Drilling Effluent Management

Drilling fluid products used during drilling and abandonment operations will be contained and deposited in tanks with overflow to sumps to ensure environmental protection.

Overflow and mud sumps for drill water, fluids, and cuttings will be excavated within the limit of the drill site using a backhoe. Anticipated sump dimensions, including the material piles, will be up to 75 feet long by 50 feet wide with a total sump volume of 1,389 cubic yards. One end of each sump will be sloped to provide escape routes for wildlife and/or other animals.

Sumps will be backfilled after completion of drilling. If mud tanks are cleaned at the site, the contents will be contained in the sump and covered with backfilled soil materials.

10.0 Solid & Hazardous Substances

Non-hazardous Project-related exploration refuse will be collected in approved trash bins and/or containers and hauled from the site by WLM or their contractors for disposal at an approved landfill on a regular basis. The bins and/or containers will be equipped with lids. Debris that may have a hazardous characteristic, residue, or fluids, will not be disposed of in the trash bins. To minimize impacts during precipitation events, trash bins will be regularly inspected for leaks and the lids will remain closed except when depositing debris. The trash bins will not contain materials that may attract wildlife (food items, etc.) and will be emptied on a regular basis.

Hazardous substances employed for the Project will include diesel fuel, gasoline, hydraulic fluid and lubricating grease. Approximately 300 gallons of diesel fuel and gasoline will be stored in fuel delivery systems on drill rigs and support vehicles. Approximately 50 pounds of lubricating grease and 35 gallons of hydraulic fluid will be stored on each drill rig or transported by drill trucks. Transportation of these materials will be conducted in accordance with applicable regulatory guidelines.

11.0 Schedule for the Project and Reclamation

Drilling success will determine the reclamation schedule. Disturbance will be reclaimed at the earliest opportunity unless economically viable resources are identified.

Earthwork and revegetation activities are limited by the time of year during which such activities can be effectively implemented. Site conditions and/or yearly climatic variations may require that this schedule be modified to achieve revegetation success. Reclamation activities will be coordinated with the BLM as necessary. Monitoring of revegetation success will be conducted annually for a minimum of three years or until revegetation standards have been met.

Attachment 1 Notice NVNV-106300288

Notice

Origin Minerals Lithium Exploration Project

June 19, 2023

Origin Minerals Exploration, LLC (Origin) plans to conduct exploration drilling activities at the Origin Minerals Lithium Exploration Project (Project), located in portions of or all of Sections 4, 5, 6, and 33, Township 13 North, Range 44 East, Mount Diablo Base Meridian, Nye County, Nevada (Project Area).

Origin is submitting this Notice to drill one exploration well and construct sumps adjacent to the constructed drill pad. The planned surface disturbance totals approximately **3.89 acres**. The Project location and planned surface disturbance are shown on Figures 1 and 2. Origin files this Notice pursuant to the provisions of 43 Code of Federal Regulations (CFR) § 3809.21 and 3809.301.

1.	Name of Operator:	Origin Minerals Exploration, LLC
	Name of Corporate Contact:	Kelly Jones
	Name of Project Manager:	Kelly Jones
	Operator Email Address:	kjones@originminerals.com
	Mailing Address:	1900 McKinney Avenue, Suite 2002 Dallas, TX 75201
	Operator Phone Number:	214-564-5111
	Consultant Phone Number:	775-771-7630 (preferred)
	Tax Identification Number:	88-3764041
	Owner of Mining Claims:	Origin Minerals, LLC 1900 McKinney Avenue, Suite 2002 Dallas, TX 75201

2. Bureau of Land Management (BLM) Serial Numbers and Names of Claims on Which Disturbance Will Occur:

Claim Name	BLM Serial Number
DV 145	NV105792750
DV 153	NV105792758
DV 154	NV105792759

3. Location of Proposed Activities: The Project is accessed from the Town of Austin. Drive southeast on US Highway 50, turn right (south) onto US Highway 376 for approximately 40 miles - turn left onto Toquima Road for 4 miles – take a slight left turn heading northeast for approximately 1.75 miles – take a slight left turn onto an access road for 1.5 miles – take a right turn on Western States Mine Road and continue straight for 4.5 miles – turn left onto Lower Mine Road for 3.5 miles to arrive at the Origin Minerals Lithium Exploration Project (Figure 1).

- 4. Existing Disturbance in the Project Area: The existing surface disturbance in the Project Area consists of trails and roads from previous recreational activities.
- 5. Project Description: Origin will utilize existing roads and approximately 11,464 feet of constructed road at a 12-foot running width. Existing roads may need to be maintained depending on site conditions. The constructed drill site will have the dimensions of 100 feet wide by 150 feet long. The roads and drill site will be graveled depending on site conditions. Two constructed sumps adjacent to the constructed drill site will have average dimensions of 75 feet long by 50 feet wide by 10 feet deep to contain cuttings and manage drilling fluids. Sumps will be fenced and sloped on one end to facilitate wildlife or humans exiting if necessary. All earthwork will be completed with a backhoe, excavator, water truck, and support vehicles or equivalent equipment. Water will be obtained from a nearby ranch. Figure 2 shows the Project disturbance. Total depth of the drill hole will be approximately 3,000 feet and borehole diameter at the surface will be 14.75 inches. The drill hole has the following coordinates:

BSV23-R01: 493,399 E/ 4,319,202 N

Hole abandonment assumptions have been included to an approximate depth of 3,000 feet. The approximate depth of the water table is estimated to be 15 to 20 feet below ground surface, therefore the entire depth is considered wet for bonding purposes.

6. Approximate Project Surface Disturbance: The following specifics apply to the Project:

Planned Disturbance

- Approximately 11,464 feet of constructed road at a 12-foot running width = 3.11 acres;
- One constructed drill site bonded as 10 sites to achieve needed size = 0.61 acre; and
- Two sumps bonded as 10 sites to achieve needed size = 0.16 acre

Planned Total Surface Disturbance = 3.89 acres

- 7. Schedule of Activities: Activities are expected to last for two years after commencement. Reclamation activities will likely be completed in the fall season. Seeding activities will be conducted at the end of the fall season in an effort to maximize the success of seeding and potential precipitation events. Revegetation activities are limited by the time of year during which they can be effectively implemented. Site conditions or yearly climatic variations may require that this schedule be modified to achieve revegetation success. Once a site is no longer needed for exploration or access to disturbance, the site will be reclaimed.
- 8. Measures Taken to Prevent Unnecessary or Undue Degradation:
 - Operations will be conducted consistent with 43 CFR 3809.415 and 3809.420.
 - Existing access routes and constructed segments will be used.
 - Origin will not knowingly disturb, alter, injure, or destroy any scientifically important paleontological deposits; or any historical or archaeological site, structure, building, or object. If Origin discovers any cultural or paleontological resource that might be altered or destroyed by operations, the discovery will be left intact and reported to the authorized BLM officer.

- Any survey monuments, witness corners, or reference monuments will be protected to the extent economically and technically feasible.
- Public safety will be maintained throughout the life of the Project. All equipment will be maintained in a safe and orderly manner.
- All solid wastes will be removed from the Project Area and disposed of in a state, federal, or local designated site.
- Hazardous substances utilized at the Project will include diesel fuel, gasoline, and lubricating grease. Approximately 100 gallons of diesel fuel and gasoline will be stored in fuel delivery systems on the drill rig and support vehicles. Approximately 50 pounds of lubricating grease will be stored on the drill rig or transported by drill trucks. In the event that hazardous or regulated materials were spilled, measures will be taken to control the spill and the BLM and the Nevada Division of Environmental Protection (NDEP) will be notified as required. Any hazardous substance spills will be cleaned immediately, and any resulting waste will be transferred off site in accordance with all applicable local, state, and federal regulations. Contract drillers will maintain spill kits on site for use in case of a spill.
- Origin will comply with all applicable state and federal fire laws and regulations, and all reasonable measures will be taken to prevent and suppress fires in the Project Area.
- Best Management Practices (BMPs) for sediment control will be utilized during construction, operation, and reclamation to minimize sedimentation from disturbed areas. Sediment control structures could include, but not be limited to, fabric or certified weed-free straw bale filter fences, siltation or filter berms, and downgradient drainage channels in order to prevent unnecessary or undue degradation to the environment.
- All drill holes will be plugged in accordance with NAC 543.4369 and 534.4371. If ground water is encountered, the hole will be plugged pursuant to NAC 534.420.
- All reasonable steps will be taken to minimize the introduction of noxious weeds and to limit the spread of any existing infestations.
- 9. <u>Reclamation</u>: Reclamation will be completed to the standards described in 43 CFR 3809.420. Existing roads will remain open. Gravel used to construct roads and/or drill pads will be raked out and dispersed after operations are complete. All earthwork will be completed with a D6 or D7 bulldozer, or equivalent equipment. The reclaimed areas will then be seeded with a BLM-approved weed-free seed mix, at the appropriate time of year for optimum seed sprouting and plant growth. The seeding will be completed with a manual broadcaster and raked. The reclaimed surfaces will be left in a textured or rough condition (small humps, pits, etc.). The broadcast seed application rate will vary based on the shrub, forb, and grass species selected. Native seed will be used when available. Only certified weed-free seed will be used for reclamation seeding. Post-reclamation maintenance will consist of remedial dirt work and reseeding, if required.

Site monitoring for stability and revegetation success will be conducted once a year for at least three years, during the spring or fall, or until attainment of the revegetation standards established

in the Nevada Guidelines for Successful Revegetation for the NDEP, the BLM, and the United States Department of Agriculture (USDA) Forest Service (Instruction Memorandum #NV 99-013).

10. <u>Reclamation Cost Estimate</u>: The reclamation cost estimate (Attachment 2), as required by 43 CFR 3809.552, is attached to this Notice. The Notice Level Exploration Reclamation Model, using Standardized Reclamation Cost Estimate 2022 Cost Data Version 3.2, was used to calculate the reclamation costs for the Project.

The following assumptions have been made in calculating the reclamation cost estimate:

- Approximately 11,464 feet of constructed road at a 12-foot running width bonded as 7,681 feet to achieve needed width. The constructed road width was shortened from 14 feet to 12 feet because there is no slope.
- One constructed drill site with the approximate dimensions of 100 feet long by 150 feet wide will be recontoured (including the gravel within the soil surface) and seeded. A 100- by 150-foot pad size is needed; therefore, to get the correct acreage, 10 pads were used for bonding purposes in the SRCE.
- Two sumps with the approximate dimensions of 75 feet long by 50 feet wide by 10 feet deep will be recontoured and seeded. 10 sumps were used for bonding purposes in the SRCE.
- A D6 or D7 dozer, excavator, or equivalent equipment may be used for all reclamation earthwork including ripping disturbance. The disturbed area will be seeded by a manual broadcast method and raked.
- The total estimated reclamation cost for the planned disturbance contained in this Notice is \$17,884.00.

11. <u>Signature Page</u>

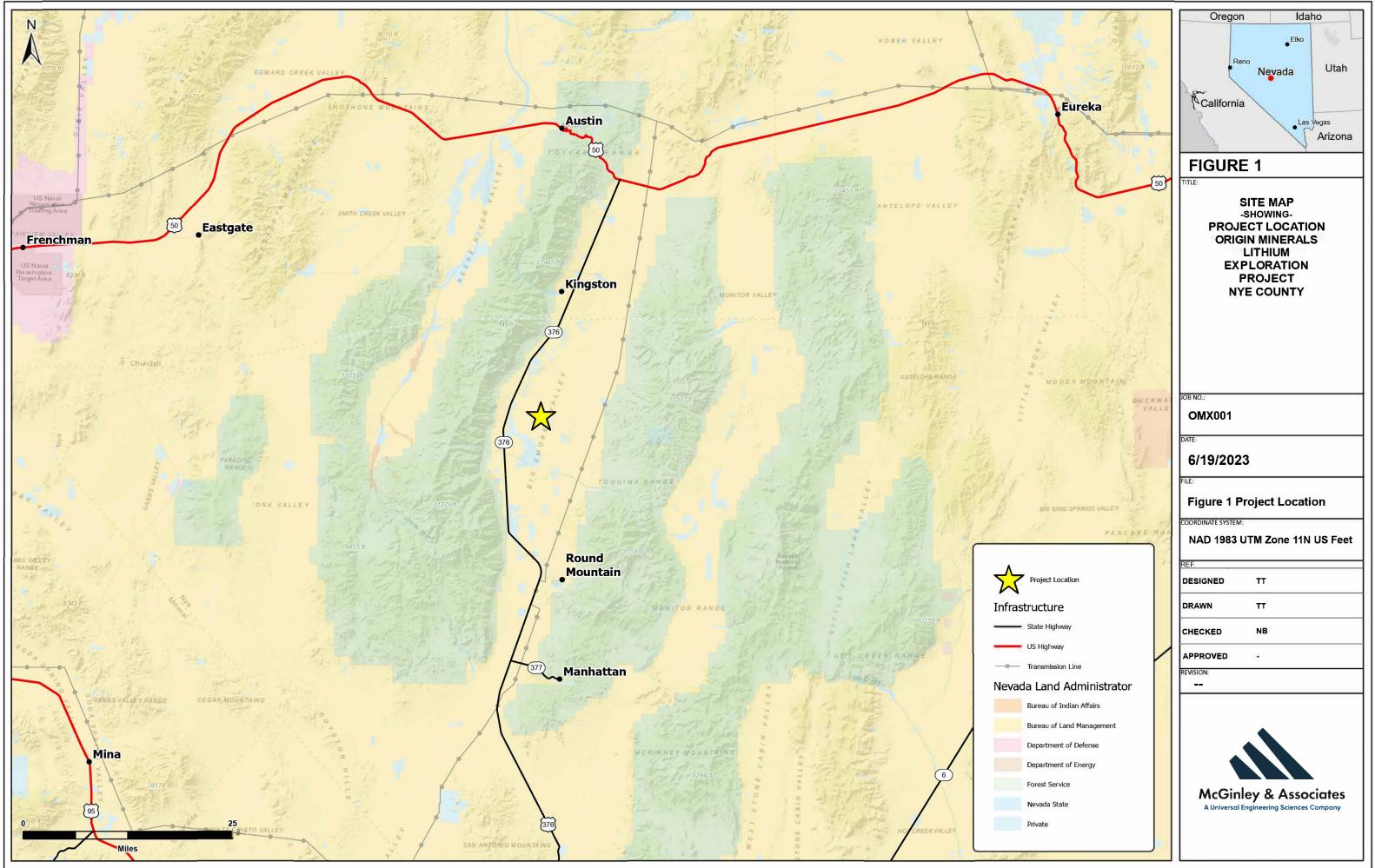
Killy for

By: Kelly Jones

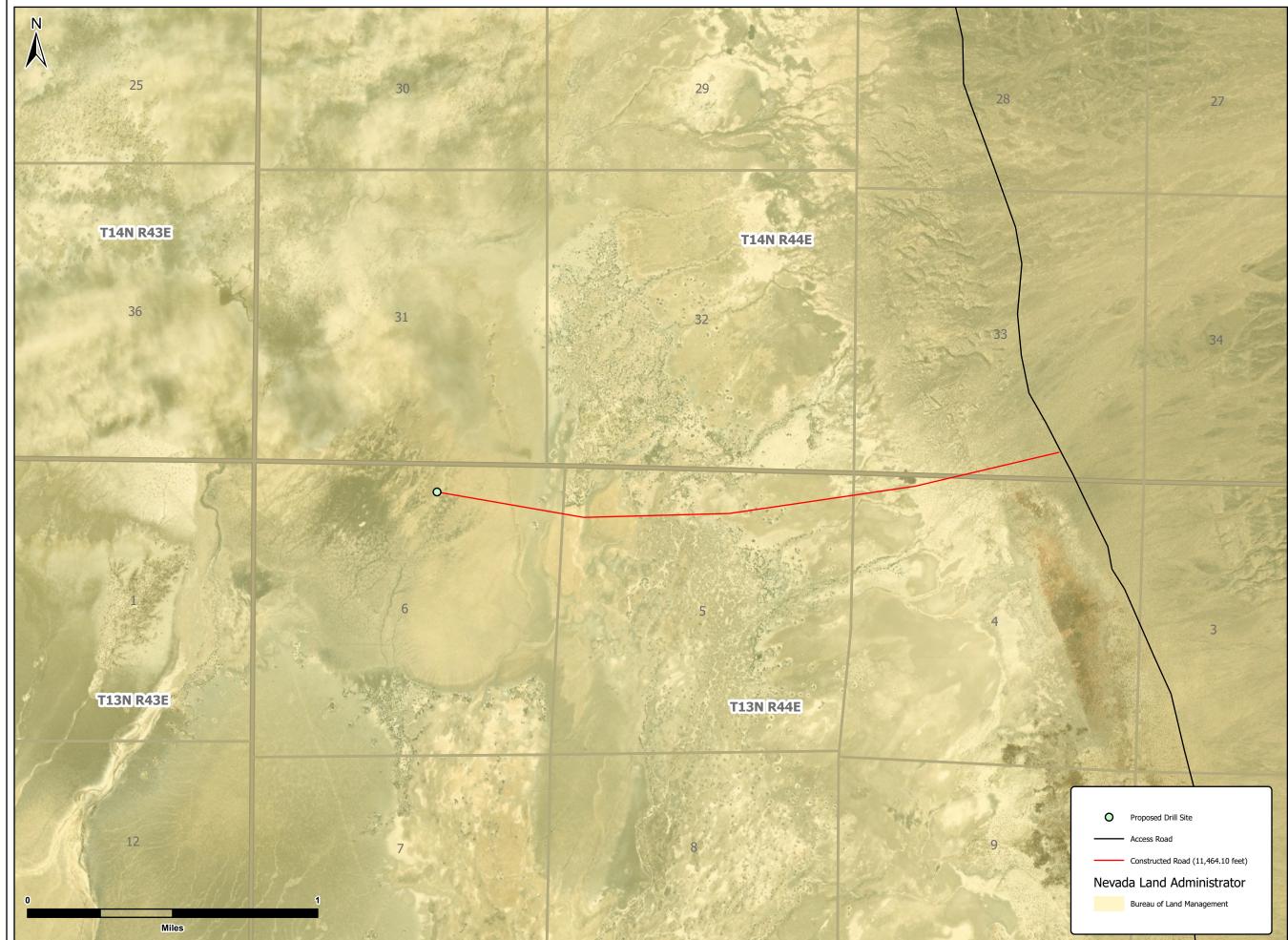
(Manager of Origin Minerals Exploration, LLC)

Date: June 19, 2023

Attachment 1 Figures



R:\Projects\OMX\BSV\GIS\01_Mafolio\Figure_1.aprx



R:\Projects\OMX\BSV\GIS\01_Mafolio\Figure_1.aprx

Oregon	Idaho	C
	● ^{Elko}	16
Reno	vada	Utah
California		
2	Las Ve	egas
~	V.	Arizona
FIGURE 2		
SITE I -shov PROPOSED DI ORIGIN MINER EXPLORATIC NYE CO	VING- ISTURBA ALS LITI IN PROJI	ним
JOB NO.: OMX001 DATE: 6/15/2023		
FILE: Figure 2 Propos	sed Distu	ırbance
COORDINATE SYSTEM: NAD 1983 UTM Z	one 11N l	JS Feet
REF. DESIGNED TT		
DRAWN TT		
CHECKED NB		
APPROVED -		
REVISION:		
McGinley 8 A Universal Engineeri		

Attachment 2 Reclamation Cost Estimate

June 19, 2023		lotice Level Exploration Rec						
		From SRCE Cost Data with			ion 3.2			
		Origin M	linerals Lithium	Exploration				
Linear Feet of Road	Linear							
On a Side Slope	Feet		Labor Cost	Manpower	Equipment	Materials	Cost/Linear Foot	Road Reclamation
<30%	7,681	Recontouring Cost <30%	\$833	\$0.11	\$0.19	\$0.00	\$0.30	\$2,270
>30%		Recontouring Cost >30%	\$0	\$0.43	\$0.75	\$0.00	\$1.18	\$0
								Pad& Sump
Drill Sites and Sumps	Number			Manpower	Equipment	Materials	Cost each	Reclamation
Drill Sites < 30% slopes	10	Recontouring Cost	\$290	\$29.00	\$50.00	\$0.00	\$79.00	\$790
Drill Sites > 30% slopes		Recontouring Cost	\$0	\$173.40	\$299.40	\$0.00	\$472.80	\$0
Drill Sites Cross Country		Ripping Cost	\$0	\$14.20	\$33.80	\$0.00	\$48.00	\$0
Sumps	10	Recontouring Cost	\$193	\$19.27	\$33.27	\$0.00	\$52.53	\$525
•		Ŭ						
	Linear Feet			Manpower	Equipment	Materials	Cost/Linear Foot	
Trenches	0	Recontouring Cost	\$0	\$1.19	\$2.50	\$0.00	\$3.69	\$0
Cross Country Travel		Ripping Cost	\$0	\$0.01	\$0.03	\$0.00	\$0.05	\$0
0.000 000		i upping cool	ψū	Q 0.01	\$0.00	\$0.00	Q 0.00	<u><u></u></u>
	Slope Acres			Manpower	Equipment	Materials	Cost/Acre	
Total Revegetation Acres	3.96	Revegetation Cost	\$693	\$175.00	\$100.00	\$332.75	\$607.75	\$2,406
Total Nevegetation Acres	0.00	nevegetation cost	φοσο	¢110.00	\$100.00	\$002.70	\$001.10	ψ2,400
				Manpower	Equipment		Mob+Demob	
150 miles Mobilization		Mobilization Cost-excavator	\$806	\$806.38	\$946.62		\$1,753	\$1,753
150 miles Mobilization		Mobilization Cost-dozer	\$0	\$549.36	\$758.64		\$1,308	\$0
100 miles mobilization		Mobilization Cost-dozer	ψυ	φ0+0.00	φ <i>1</i> 30.04		φ1,000	ψυ
Drill Holes Open	#/Feet			Manpower	Equipment	Materials	Cost/Foot	Drill Hole Plugging
Feet of Open Holes - Wet	3000	Plugging Cost - Wet	\$1,911	\$0.64	\$0.66	\$0.43	\$1.72	\$5,169
Feet of Open Holes - Dry	3000	Plugging Cost - Dry	\$0	\$0.04	\$0.00	\$0.43 \$0.01	\$1.05	\$0,109
Feet of Casing to Pull	-	Pulling Casing	\$0	\$0.75	\$0.30 \$0.92	\$0.01 \$0.00	\$1.78	\$0
Feet of Casing to Full		Fulling Casing	φU	\$0.00	φ0.9Z	φ0.00	φ1./Ο	\$ 0
				Mannautan	Equipment		Mob+Demob	
150 miles Mobilization		Mobilization Cost - Wet	\$600	Manpower	\$1.067.52		\$1.668	\$1.668
150 miles Mobilization		Mobilization Cost - Viet	\$000	\$600.48 \$880.75	\$474.25		\$1,355	\$1,000
Disturbance Type	Total Asses	Total Linear Feet	Slope Acres	φοου. <i>1</i> 5	φ474.20		φ1,300	Ф О
Roads	Total Acres 3.11	7,681	3.17					Total Reclamation Cos
Drill Sites	0.61	7,001	0.62					14.582
Drill Sites	0.01		0.62					\$14,562
Sumps	0.16		0.16					
Trenches	0.00	0	0.18					
		0						T-4-11-6
Cross Country	0.00	-	0.00					Total Labor
total Notice acres	3.89	total slope acres	3.96					\$5,327
een cells with blue font is for user in	put	Contingency*				10% Iotal R	eclamation Cost	\$0
llow cells are unit costs		Insurance					1.5% Labor Cost	\$80
ack font cannot be changed		Perf. And Payment Bonds*					Reclamation Cost	\$0
d font are calculated values with for	mulas	Contractor Profit					Reclamation Cost	\$1,458
at can not be changed		Contract Administration					Reclamation Cost	\$1,458
		Indirect Costs			21%	of Contract A	dministration Cost	\$306
Contingency and Performance and	payment Bonds re	equired only if total reclamation cost	> \$100,000					Total Administration Co
								\$3,302
			Cost per acre			Fir	ancial Guarante	e
			\$4,602				Amount	\$17,884
otes:			+ .,					*******
dd notes associated with input value	, if peeded			l				

Bureau of Land Management Notice Level Reclamation Cost Estimation Wor		
Costs for this Notice Level Reclamation Cost Estimator are based on values and assumptions used in the Standardized Reclamation Cost		
Cost Data are from August 1, 2022. This worksheet is simpler than the SRCE and does not allow the flexibility of entering project specific	information in some si	ituations.
The model will generate approximately the same reclamation costs as the SRCE model if the same inputs and assumptions are applied.		
Below are the methods and assumptions used by this model to generate a Financial Guarantee Amount.		
1. There are two side hill slope categories used for all calculations in this worksheet. All slopes under 30% (<30%) are assumed to have a	a slope of 20%.	
All slopes over 30% (>30%) are assumed to have a slope of 40% and include an additional 50% of volume for double-handling.		
2. All Roads in this worksheet are assumed to have a 14 foot wide dimension across the flat "driveable" part of the road without any safety	ty berms.	
3. All Drill Sites in this worksheet are assumed to be 30 feet wide. For Drill Sites on slopes <30% they are 70 feet long. For Drill Sites	on slopes >30% they	are 83 feet long
4. All Road and Drill Sites cut banks are assumed to have a 60 degree slope.		
5. All Road and Drill Sites fill slopes are assumed to have an angle of repose of 1.4H:1V or about 70% slope equal to a 35 degree angle.		
6. Roads are linear features and the units required for input to this worksheet are in linear feet.		
7. Recontouring for reclamation of Roads, Drill Sites, and Sumps is done with a track excavator of a Cat 320C size with a 1.57 CY buc	cket and productivity o	f 167 CY per hour.
8. Equipment operator Manpower cost is based on Davis-Bacon wage rates for Northern Nevada.		•
Area pay= \$0.00 per hour, FICA = 7.65%, Unemployment = 3% and Workmen's Comp= 12.0%		
9. Laborer cost is based on Davis-Bacon wage rates for Northern Nevada with FICA = 7.65%, Unemployment = 3% and Workmen's Com	np= 12.0%	
10. Revegetation cost is based on the cost of use of a quad/ATV which spreads and drags the seed in on one pass.		
11. Revegetation costs are based on a per acre basis for slope acres.		
12. Drill Sites recontouring cost is based on a standard pad width and length.		
Drill Sites on slopes <30% and Cross Country Drill Sites are 30 feet wide by 70 feet long.		
Drill Sites on slopes >30% are 30 feet wide by 83 feet long.		
On Cross Country Drill Sites , the disturbed area is ripped by a Cat D7 size dozer.		
13. One Sump is assumed for each Drill Site . The assumed dimensions are 10 feet wide, 20 feet long and 6.75 feet deep. (50 CY)		
On Drill Sites <30% slopes they are assumed to be outside the Drill Site.		
On Drill Sites >30% slopes sumps are assumed to be valued at the Drill Site .		
14. Trenches are assumed to be 14 feet wide by 5 feet deep within 10 feet extra width for the spoils pile. A D6 is used for recontour at 208	8 CV/ hour productivity	1
 Hercines are assumed to be hercine where the destination of the second se		
 reconcerning cardinols for reads that offee and composition assumed assumed assumed assumed to 2018. Therefore service accurate of the service of the service		
Revegetation costs for all Cross Country disturbance is based on a 12 foot wide seeding width on one pass.		
17. Mobilization and Demobilization are based on 150 miles one way to project and are based on the 2022 Mob/DeMob worksheet.		
Travel times are assumed to be 2.73 hours one way to the project.		
18. Mobilization for a Cat 320C excavator will be charged for regrading of Roads, Drill Sites only.		
If there are any Trenches or Cross Country disturbance ; a D6 dozer will be mobilized also.		
19. All projects that propose drilling will require a minimum Drill Holes Open abandonment cost.		
If a drill hole will not penetrate the static water level it may be abandoned as an Open Hole - Dry .		
If a drill hole is drilled deeper than the static water level it is considered a wet hole and must be abandoned as an Open Hole - Wet .		
20. Mobilization for Drill Holes - Open for Open Hole - Wet will include one drill rig plus crew and support equipment.		
21. Mobilization for Drill Holes - Open for Open Hole - Dry will include one backhoe and operator, and one general laborer.		
		Nevada BLM, August 1, 2022

Attachment 2



The Washington Series 1358-1358-C Non-Rotating Diverter is ideal for use on Top Drive Rigs or Work Over Rigs where drill pipe is to be rotated inside stripper. Whether drilling oil, gas, water or monitor wells, the 1358 bolt down style or the 1358-C clamp down style is a low profile diverter that is lightweight, compact and easy to install. Using air / water or mud as a circulating medium, it is a cost effective solution to safely diverting all drill cuttings away from the rig and personnel or into a container for disposal, keeping clean up cost to a minimum.

The diverter can be manufactured with any desired inlet or outlet flange, or can be manu - fac tured to thread onto casing. To be used with 4010 Rubbers. Will handle from 2" to 8"drill pipe.

SERIES 1358-1358-C NON-ROTATING DIVERTER



Illustration shown is 7"-8RD Female

Nominal Flange Size	A	В	с	D	Ring Gasket	Outlet*
7 ¹ / ₁₆ "-3000	18 ¹ 1⁄16"	10¼"	8½ "	71/16"	R-45	7"- 8RD Female
7 ¹ / ₁₆ "-5000	19½"	10¼"	8 ⁷ / ₈ "	71⁄16"	R-46	7"- 8RD Female
9"-3000	18 ⁵ ⁄16"	9"	8½ "	9"	R-49	7"- 8RD Female
9"-5000	187⁄16"	9"	8 ⁵⁄8"	9"	R-50	7"- 8RD Female
11"-3000	167/16"	9"	71⁄8"	111/8"	R-53	7"- 8RD Female
11"-5000	16 ¹ / ₁₆ "	9"	7 ¾"	111/8"	R-54	7"- 8RD Female
13 ⁵ / ₈ "-3000	16%16"	9¼"	7¼"	12¾"	R-57	7"- 8RD Female
13%"-5000	16%16"	9¼"	7¼"	12¾"	BX-160	7"- 8RD Female

*Can be fitted with larger coupled outlet or flanged outlet.

WHEN ORDERING, PLEASE SPECIFY:

model number
 lower flange size
 outlet flange size
 Kelly size and shape
 drill pipe size
 drilling environment
 high temperature, if applicable.

All air bowls can be fitted with female collared or flanged outlets at your request. All air bowls can be double drilled at your request.

REV 8/17

Washington Rotating Control Heads, Inc. P: 724.228.8889 | F: 724.228.8912 63 Springfield Avenue | P.O Box 261 Washington, PA 15301 www.washingtonrotating.com Our test pressures have been established through controlled test procedures. As a result of the ever-changing environment of well drilling operations along with wear and tear on equipment, which erodes longevity and safe operating parameters, Washington Rotating Control Heads, Inc., its Business Units, Agents and Affiliates make no warranty either expressed or implied on the test pressures contained herein. Washington Rotating Control Heads, Inc. does not under any circumstances recommend that its rotating control devices be used as primary blow out prevention equipment.

Attachment 3

WHITE—DIVISION O CANARY—CLIENT'S PINK—WELL DRILLE	COPY	RCES	ועזם			NEVADA OFFICE USE ONLY Lo No. 2/458
N/N-1b						Lo No. 27
			PI	ease com	plete this f	form in its entirety
1. OWNER Cy						DDRESS 555 South Flower Street
	فاتبر					Los Angeles, CA 90071
2. LOCATION.SC PERMIT NO.	ע _{1∕4} S₩C	ا ب الح	Sec. 💏 .	<u>З(</u> т	1342	N/S R. 45 E. NYE Count
	TYPE OF WOR			4.	11	PROPOSED USE 5. TYPE WELL
		econdition			mestic 🗆	
Deepen [0	ther		Mu	nicipal 🗌] Industrial 🗆 Stock 🗖 Other 🗆 Mud
6.	LITHOLO	GIC LOC	3			8. WELL CONSTRUCTION Diameter hole
Materi	<u></u>	Water Strata	From	То	Thick- ness	Casing record 0-531 x 8 5/8 0D
<u>ight brown to</u> onted sands, g			prly			Weight per foot. 22.36 Thickness .250
bles and occas						Diameter From To 8 5/8 0 240
o <u>f crystalline</u>	tuff, cher					85/8., 280 <u>1</u> 388 .
and limestone;						8 5/8 inches 459 feet 481 feet
<u>silt and clay</u>			0	157	_ 157_	feetfeet
ink to white	color welde	d tuff				inchesfeetfeet
<u>contains quart</u>	z and bio-					Surface seal: Yes 🛛 No 🗆 Type Cement
ite phenocrys				<u> </u>		Depth of seal
<u>herts fragmen</u>	LS		157	260	103	Gravel packed: Yes 🗌 No 🕅
hite volcanic	ash		_260	280	20_	Gravel packed fromfeet tofeet
redominantly	white cryst	al-				Perforations: 1) down-hole Type perforation 2) $mill slot$ Type perforation 1) 5/16 x 1/2
ine tuff cont						Size perforation
ents		-	280	400	120	From (1) 240 feet to 280 fee
redominantly	white to					From (2) 388 feet to 459 fee From (2) 481 feet to 531 fee
ink welded tu						From 404 feet to feet
olcanic ash,	interbedded					Fromfeet tofee
ith chertz co	ngolmorate		400	531	131	
						9. WATER LEVEL Static water level. 271.22Feet below land surface
						Flow
······································						Water temperature° F. Quality
			!			10. DRILLERS CERTIFICATION
Date started Date completed	March 27 April 28	********	*****	J	<u>80 80 وا</u> 70 وا	This well was drilled under my supervision and the report is true to
7.	WELL TE		A			the best of my knowledge.
Pump RPM	G.P.M.	Draw Dor		fter Hours	Pump	Name W.L. McDonald & Co., Inc.
	40	76.8		24 hrs	_	Address P.O., Box 404 Sparks, Nevada 89431
						Nevada contractor's license number
						Nevada driller's license number
	D A TT					signed D. Cohonly lo Lolo
G.P.M		R TEST raw down	fea	et	hours	D. Cohen by W.L. McDonald
G.P.M			1fe		hours	Date
G.P.M	D	raw down	1fe	et	hours	

WHITE—DIVISION CANARY—CLIENT'S PINK—WELL DRILI	5 COPY	RCES	W	ISION C	RILLE	NEVADA ER RESOURCES	Permit N Basin	office use only 22495 . 40007
ownerDIC	K GUELICH			-	A	DDRESS SMOKEY VAL	Basin # LEY EV. 890	₽ 137B 45
2. LOCATION		. ¹ ⁄4 S	Sec28	T	14N	N/S R.43EE.		
3.	TYPE OF WOR			4.		PROPOSED USE		5. TYPE WELL
New Well Deepen		econdition ther		1	nestic 🗖 nicipal 🗖		est 🗌 ock 🔲	Cable Rotary Other
6.	LITHOLO	GIC LOC	}			8. WELL	CONSTRUC	FION
Mate	erial	Water Strata	From	То	Thick- ness	Diameter hole20 Casing record	inches Tot	al depth
URSE SAND			0	20	20	Weight per foot		Thickness 4
JURSE SAND &	ROCKS		20	25	5			
OURSE SAND &			25	30	. 5	12" ^{Diameter} BLANK 12" PERF• inches	Ő	faatl 96
OURSE SAND &	ROCKS		30	72	42	12" PERF.	96	feet 264
OFT BR. CLAY						inches		
	ND & GRAVEI			78	6_	inches		
AND & GRAVEL			78	91	13	inches		
DSE SAND & GR	AVEL		91	95	4	inches		
OFT BR. CLAY			95	10	3.8	Surface seal: Yes D N		
OSE SAND & GR	AVEL		103	10	7 4	Depth of seal		
AND & LARGE G	RAVEL		107	110				
AND & GRAVEL	LOSE	, ,	110	117	7	Gravel packed: Yes 🙀 Gravel packed from	~ Ll 	et to 264 d
CAND & GRAVE			117	122	5	STATOL PAULOG HUMIN		
AND & GRAVEL			122	126	4	Perforations:		
AND & GRAVEL			126	150	24	Type perforationROS	SCOE MOSS	5 SHUTTER SCRE
AND & GRAVEL	W/ ROCK &					Size perforation	1/8"	
R. CLAY			150	170	20	From	feet to	í
AND & GRAVEL			170	176	6	From. SEE ABOVE	feet to	f
AND & GRAVEL		Y	176	194	18	From	feet to	f
AND & GRAVEL			194	199	5	From	feet to	
BROWN CLAY				215	16	From.	feet to	f
RAVEL & ROCK			215	218				
BROWN CLAY			215	244	29	9. W.	ATER LEVE	<u>م</u>
AND & GRAVEL			244	246		Static water level		
AND W/ LITTI		07 4 77	246	251	- 5	Flow		
AND & GRAVEL	-	CLUX	<u>251</u>	259	<u>-8</u>	Water temperature	.°F. Quality	
BROWN CLAY			259	264				
Date started 1	- 27			ĩ	, 81		RS CERTIFIC	
Date started1 Date completed1	- 2 9	·····		, 1	9 <u>8</u> 1	This well was drilled under the best of my knowledge.	my supervisio	n and the report is true
7.	WELL TE	ST DATA	A			Name BRAD SANTUCC]]	
Pump RPM	G.P.M.	Draw Dov		fter Hours l		6860 W. ROSE Address		WINN.
	1000	90	.1	1 hou	B S	Nevada contractor's license	015	234
						Nevada driller's license num		11 million
G.P.M		R TEST raw down	fo	ef	houre	Signed Signed	- A	an Tere
G.P.M					11	Date -	24 15	781
N.J. 1. 178		iaw uown	t¢		hours	L'aic	×	£

in the second se

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USE ADDITIONAL SHEETS IF NECESSARY

O-627

STATE OF NEVADA DIVISION OF WATER RESOURCES WELL DRILLER'S REPORT

OFFICE USE ONLY Log No. 120466 Permit No. 836061 Basin No. 1373

PRINT OR TYPE IN BLACK INK ONLY DO NOT WRITE ON BACK

Please complete this form in its entirety in
accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 71308 WELL NAME (If applicable): Mcleod

1. OWNER/CLIENT NAME Ted Melsheimer					DETAILED ADDRESS AT WELL LOCATION Big Smokry Valley					
MAILING ADDRESS 3200 Pondersoa Drive					Northern Part					
Carson City, NV 89701					Subdivision Name:		County: Nye			
2. PLS LOCATION SW 1/4	NE 14	28 Sec	14 N/S	43 E	Latitude	39.049	ŲTM E			0 27
PERMIT/WAIVER NO.	83606T				Longitude	117.14938	UTM N) 83/WGS 84
Issued by Water Resources Current Parcel No.										
3. WORKED PERFORMED 4.						POSED USE	_	5,	WELL TYP	
K New Well Deepen: Orig WL#				nestic		Irrigation		🗆 Auger	Rotary	
Replacement: Original well log #			Min	ing / Dewal	ter 🗖	Com / Ind	Stock	🗆 Air	🛗 Mud	Sonic
Recondition: Original well log	·····		🗌 Tes	t / Other		Mun / QM	Rec	Other		
6. Material	LITHOLOGIC LOG	Water	<u> </u>		9. NSTRUC		F 1			۰. ۱۰
Encountered	Lost Circ.	Strata	From	Ťσ	Depth Drill	ied: 320	Feet HOLE DIAMET	Depth C		0 Feet
Top Soil			0					• •		
Sand				8				From	Ţφ	_
Clay			8	35		36	Inches		Feet 50	*****
Brown Gravel/Clay			35	50		24	Inches		Feet 32	
Brown Sand/Gravel			50	54			Inches		Feet	Feet
Gravel			54	58			CASING S		1	1
Brown Clay		X	58	96	Size O.D.	Weight/Ft.	Wall Thi		From	To
Gray Clay		_	96	110	(inches)	(Pounds)	(Inch		(Feet)	(Feet)
<u></u>			110	113	30	42.09	.25		0	50
Sand Clay/Gravel		<u> </u>	113	180	16	53.32	.31	2	+2	320
		<u>X</u>	180	270						<u> </u>
Clay/Rock			270	320			ANNULAR MA	TERIALS		
			ļ		Sanitary Se			_	_	
					Neat Cerne		to		umped L	Poured
					Cement Gr				umped	Poured
······································						Grout	0 to	50 IAJP	umped 🛄	Poured
					Bentanite (Chips	to	🗆 р	umped 🗆	Poured
					🛛 Gravel Pac	==	to S	320 🗆 Р	umped 🗆 X	Poured
					Sand Pack	{ < 0.2 in.]	to	Р	umped 🗋	Poured
					C Other, exp	lain:	to		umped 🗖	Poured
										.
N/AD 27				PERFORATIONS:						
39.0496711					Type of perforation: Louvered					
117,148458°W					Size of per	foration: 0.1				
					From	120	Feet	To	260	Feet
					From	280	Feet	То	320	Feet
					From		Feet	То		Feet
Date started:	7-May		, 20	14						
Date completed:	15-May		, 20	14	From		Feet	то		Feet
7. WATER		10.		DRILLER'S CE						
Static water level: 1 Feet below land surface Artesian Flow: 0 G.P.M P.S.L					This well w knowledge		y supervision. This	report is true to	the best of my	
Artesian Flow: 0 G.P.M. P.S.I. Water Temperature: Cool ° Fahrenheit					-	•	Parsons Drillir			
Water Quality: Unknown					Name -		Contracte		r	
					Address	P.O.	Box 1265 Fallo	n. NV 89406		1 N - 1
8. WELL TEST DATA							Contracto			
Test Method: ☐ Bailer ☐ P⊔mp ☐ Air Lift					Nevada contractor's license number					
			Recorded	· ·	as issued by the State Contractor's Board: 29064)					
(Feet Below Static)		(Hours)		Nevada well driller's license number as issued by the						
2157			2		Nevada Div	vision of Water Re:	sources (gesite dr	iller):	2501	
					Gianadi	4 kun	n Kn		8 Be	
					Signed:	July drill	ar partorning actual drifte	on site or contracto	·	
					Date:	/	6/0	5/2014	- co	
(Rev. 12-13) USE ADDITIONAL SHEETS IF NECESSARY pg. Cof pg.										

Attachment 4

