

# STAFF REPORT

## UH-12-04

1. **SUBJECT:**

A Conditional Use Permit application submitted by Warren Woods, General Manager of Hycroft Resources & Development, Inc. for a mine expansion. This Conditional Use Permit is for an expansion of the Hycroft Mine (CUP UH-87-5).

2. **LOCATION:**

Subject property is located within T35N, R29E Sections 13, 14, 22, 27, 33, 34, 35; T35N, R30E Sections 16, 17, 18, 19, 20, 21, 28, 29, 30, 31, 32; Assessor's parcel #'s 1-581-01, 1-591-01, 1-591-06, 1-601-10, 1-611-09, 1-611-04, 1-611-05, 1-611-06 and 1-611-10.

3. **BACKGROUND INFORMATION:**

**Project Size:** 14,752 acres

**Previous Applications:**

APN 01-581-01 UH-81-09 which was voided  
All other parcels show no previous actions

**Zoning:** M-3 (Open Land Use)

**General Plan:** OSMU (Open Space/Multiple Use)

**Response from Referrals:**

**Bobby Thomas, County Building Official** "Obtain building permits for support structures and associated utilities

No other comments have been received from referrals as of April 6, 2012.

**Access:** From Jungo Road

**Applicable Regulations:**

Commercial activities (Mining) are allowed in the M-3 zoning district with the approval of a Conditional Use Permit.

4. **ANALYSIS:**

- A. Applicant has provided an amendment to the reclamation plan and the Hycroft Mine Expansion. Hycroft Mine is an open pit gold mining operation. Currently this operation includes ore extraction & processing, exploration, environmental studies, environmental permit compliance, and engineering studies. The mine operates 24 hours per day. A parking area exists for visitors/employees. The proposed expansion is to the plan boundary, open pits, addition of two new heap leach pads, processing facilities, additional waste rock storage areas, expansion of haul roads, construction of fuel areas and dispatch center. The proposed expansion will include a new administration building, two new Merrill-

Crowe Plants, Gyratory crushing system, expansion of the existing refinery building & Merrill-Crowe Plant, and additional fencing around potential hazardous areas. Applicant has provided a detailed description of current and proposed operations.

- B. The site for the expansion is adequate in size and shape to accommodate the use. The operations boundary will expand to a total of 14,752 acres, in a rectangular shape, that will accommodate all of the proposed operation. The boundary has been designed to adequately meet expansion and growth needs of mining operations.
- C. The adjacent roadways are adequate to accommodate the proposed use. Access to the property is provided via Jungo Road from the east via Winnemucca; Nevada Highway 447 between Empire & Gerlach from the west; Seven Troughs Road from the east from Lovelock; and Imlay Cutoff via Imlay or Rye Patch Reservoir. Jungo Road is the main access and delivery route from Winnemucca. Hycroft Resources & Development, Inc. maintains the two lane gravel road in coordination with Humboldt County.
- D. The expansion will have no adverse effect on abutting property or permitted uses thereon, if the proposed conditions are met. A notice of Public Hearing has been sent to the property owners within a 300 foot radius of the property lines. The majority of uses in the area are open space/multiple use type activities. Right-of-Ways (ROWs) exist around the property for railway, power lines and communication sites. There are also geothermal leases on adjacent properties. The proposed project will require changes to ROWs that are being appropriately addressed with the Bureau of Land Management (BLM).
- E. Applicant will have to obtain further approvals from other state and federal agencies, including but not limited to the Division of Environmental Protection and BLM, for this operation. Applicant has listed in the application the various agencies they will be contacting and obtaining permits from.

5. **FINDINGS:**

- A. The operation of the proposed activity requires a Conditional Use Permit. If operation expands from what is in this application, applicant will be required to submit further information of the expanded project for review and approval.
- B. Applicant's property is adequate in size and shape to accommodate the proposed activity.
- C. Streets and highways in the area will not be adversely affected by the proposed activity, if the proposed conditions are adhered to.
- D. The proposed use will have no adverse effect on abutting property or permitted uses thereon, if proposed conditions are adhered to.
- E. This type of use, a mining operation, requires permits and approvals from a variety of entities. Applicant has provided the information regarding these entities as part of the application.

**6. STAFF RECOMMENDATION:**

After careful consideration, Staff recommends **approval** of this Conditional Use Permit to expand the plan boundary of the existing Hycroft Resources & Development, Inc. mining operation. Based upon the above stated analysis and findings, and, subject to the following conditions:

1. The applicant shall be responsible for obtaining all necessary permits and licenses, and for providing copies of same to the Planning Department within thirty (30) days of their receipt, or a letter from the appropriate state and/or federal agency that no permit is required.
2. This Conditional Use Permit shall be subject to an annual review.
3. This Conditional Use Permit approval for an expansion to the existing mining operation is based upon the facts as found within the conditional use application and attached documentation. If any changes occur, such as property ownership or a deviation of said use, other than limited uses associated with the activity, the Planning Department shall be notified.
4. The Regional Planning Commission, on its own motion at a public hearing, may revoke a Use Permit for non-compliance with the conditions as set forth in granting the permit. The permittee shall be given written notice at least ten (10) days prior to a public hearing on any proposed revocation.
5. This Conditional Use Permit shall not become effective for any purpose until the applicant has returned to the Humboldt County Planning Department a notarized affidavit stating that the applicant is aware of and accepts all of the conditions approved as a part of this Conditional Use Permit.
6. There shall be no interference with the peace, contentment or general welfare of the area.

**7. SUPPORT DOCUMENTS:**

- A. Application
- B. Expansion Information
- C. Location Map - Site Plan
- D. Assessor's Map

Betty Lawrence  
Senior Planning Technician

CONDITIONAL USE/SPECIAL USE PERMIT  
APPLICATION FORM

City of Winnemucca

Humboldt County

Applicant/Agent: Warren Woods, General Manager

Name of Business: Hycroft Resources & Development, Inc.

Street Address of Business/Location: 55 miles west of Winnemucca, NV on Jungo Road

Mailing Address: P.O. Box 3030  
Winnemucca, NV 89446

Assessor's Parcel # Please see attachment Property is zoned: M-3

Legal Owner of Property: (a signed, notarized Affidavit of Ownership is required)

Name of Owner: Hycroft Resources & Development, Inc.

Mailing Address: P.O. Box 3030  
Winnemucca, NV Phone: 775-623-5260

I, the above signed property owner or lessee of the property described, hereby request a Conditional Use/Special Use Permit for the following:

Expansion of the Hycroft Mine, an open pit gold mining operation. Proposed expansion to the plan boundary, open pits, addition of two new heap leach pads, processing facilities, additional waste rock storage areas, expansion of haul roads, construction of fuel areas and dispatch center. A detailed description of current and proposed operations is attached in the Hycroft Mine Plan of Operations revised in January 2012.

FOR DEPARTMENT USE

Received By BETHY Date Received 3/16/12

Application No. UH-12-04 Name Hycroft Resources + Dev

1. Please explain in sufficient detail the nature of your project and how it will operate: HRDI currently operates an open pit mining operation that includes ore extraction & processing, exploration, environmental studies, environmental permit compliance, and engineering studies. Please see section 2.8 of the Hycroft Mine Plan of Operations for a detailed description of operations.  

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Indicate proposed hours of operation: 24 hours per day  
Number of customers expected: N/A, Product shipped off-site  
Where will customers park?: A parking area exists for visitors/ employees  
Number of parking and loading spaces proposed: N/A  
Describe any landscaping proposed: Surface disturbance due to mining operations will undergo concurrent reclamation or upon completion of project for sustainable development.
2. Describe any additional structures proposed as part of this use (walls, fences):  
New Administration building, two new Merrill-Crowe Plants, Gyratory crushing system, Expansion of the existing refinery building & Merrill-Crowe Plant, and additional fencing around potential hazardous areas.
3. Describe the size and shape of the site for the proposed use. Describe how the proposed use is adequate in size and shape to accommodate the proposed use:  
The operations boundary will be expanded to a total of 14, 752 acres, in a rectangular shape, that will accommodate all proposed operation. The boundary has been designed to adequately meet expansion and growth needs of mining operations.
4. Describe the width and pavement type (asphalt, gravel) of the adjacent streets. Are they adequate to carry the quantity and kind of traffic generated by the proposed use? Jungo Road is the main access and delivery route from Winnemucca, NV. HRDI maintains the two lane gravel road in coordination with Humboldt County. A dust suppressant is used to treat the roadway.
5. What are the uses on adjacent properties? Right of Ways (ROWS) exist around the property for the railway, power lines, and communication sites. Geothermal leases exist adjacent also.
6. Will the use affect abutting properties or the uses permitted thereon? Describe:  
The proposed project will require changes to ROWs that are being appropriately addressed with the Bureau of Land Management.

7. Will any materials or goods be stored as part of this use?  Yes  No  
If yes, what kind(s) of materials or goods? Construction materials, fuels & reagents, lime,

How much materials or goods? Please see table 2-23 in the Plan of Operations for a detailed summary of proposed fuels and reagents.

How will it be delivered? Supplies are delivered via truck on Jungo Road.

How often? Daily and weekly dependent upon demand.

Where will it be stored? Specified holding and storage containment areas.

8. Will equipment (hand tools or large equipment) be used in the operation of this use?  Yes  No

What kind(s) of tools or equipment? Variety of hand tools are utilized in the construction & maintenance of equipment and vehicles, Large construction equipment used like dozers & cranes.

How much equipment? Please see Table 2-16 in the Plan of Operations for a detailed list of equipment.

Where will it be stored? Equipment and vehicles are typically stored in maintenance areas or specified holding areas.

9. How many employees will the use generate, if any? 340

10. Will you be disposing of used or waste materials as a result of this use?  Yes  No

If yes, what materials will be disposed of and how? Please see the Plan of Operations Section 7 and Section 2.9.1.9 for chemical reagent requirements & hazardous materials management.

11. Will you have a sign on your property advertising the use?  Yes  No

If yes, what is the size and height of the sign(s)? There is an existing sign before the main gate, approximately XXXXXXXXXXXXXXXXXXXX

12. Will you be required to obtain any city, county, state and/or federal permits and/or licenses?  Yes  No

If yes, indicate agency and type: Please see the Plan of Operations Table 2-26 for a detailed list of major permits and authorizations.

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# 1 Introduction

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## 1.A Background

Hycroft Resources and Development, Inc. (HRDI), a wholly owned subsidiary of Allied Nevada Gold Corp., is submitting this reclamation plan (Plan) and permit application for the Hycroft Mine Expansion Project (Project). This document was prepared in accordance with applicable requirements of the United States Bureau of Land Management (BLM) regulations (43 CFR§3809) and Nevada regulations governing the reclamation of mined lands (NAC 519A.010-635).

This document describes the proposed mining activities and describes the proposed operating and reclamation techniques to be used to comply with federal and state laws. Because the proposed activities are occurring near a National Conservation Area and within view of the Lassen-Applegate pioneer trail, particular attention will be paid to leaving a post-mining land configuration that will minimize visual impacts.

Visual resources are a critical component of the design of the proposed facilities in this Plan. Previous mine plans utilized standard angular facility layouts. The new facility designs in this Plan incorporate the existing facilities and the native topography in ultimate facility designs that reduce the visual affects of all reclaimed mine facilities. Design features include irregular facility shapes that blend the new and existing facilities with natural topography, rounded bench crests and facility abutments with undisturbed lands, concurrent reclamation of the heap leach facilities, and varying slope angles on side slopes. The final reclamation configuration of the facilities will blend with surrounding topographic features to the extent possible while maintaining erosional and structural stability.

The Hycroft mine is located along a typical Basin and Range fault system in a similar geotectonic setting as other geothermal systems that have been developed for power generation (e.g. Beowowe, Brady's-Desert Peak, Blue Mountain, Dixie Valley). Hycroft Resources and Development, Inc. intends to explore the nature and extent of the geothermal resource and, if appropriate, develop those resources for purposes of power generation. Competitive geothermal leases existing in the project area and HRDI has submitted an application for non-competitive geothermal leases within the approved Hycroft Mine Plan of Operations boundary to the BLM in April 2009 (HRDI 2009). The

existing infrastructure at the Hycroft Mine could be used to provide power to the grid as part of a sustainable post-mining land use should a viable resource exist.

Hycroft Resources and Development, Inc. is amending the existing Plan to expand the plan boundary and expand open pit mining, WRF's, and heap leach facilities as well as related support facilities.

All existing plans and amendments prepared in support of the Hycroft Mine (Crofoot Mine and Lewis Mine) are incorporated herein by reference. Upon approval, the information presented in support of the proposed expansion and contained herein will supersede the previous reclamation plan and amendments submitted for the Hycroft Mine.

## **1.B Location**

The Hycroft Mine is located approximately 55 air miles west of Winnemucca, Nevada in Humboldt County on private land controlled by HRDI and public lands administered by the BLM as shown in Figure 1. The mine is accessed via:

- Jungo Road (Nevada Highway 49), from the east via Winnemucca;
- Nevada Highway 447 between Empire and Gerlach from the west;
- Seven Troughs Road from the east from Lovelock; and,
- Imlay Cutoff via Imlay or Rye Patch Reservoir.

## **1.C History**

Mining activities in the vicinity of the Hycroft Mine began in 1875 with the discovery of sulfur. Over 200,000 tons of sulfur was produced by underground mining methods from the 1870's through the early 1950's. The mining district also produced small amounts of silver, potash, and mercury during the early 1900's. In the late 1970's, Homestake Mining Co. conducted an exploratory drilling project on claims controlled by the Crofoot family and delineated a small tonnage, bulk-mineable gold deposit near the north end of the property along the Central Fault.

In 1984 the Standard Slag Corporation constructed the Lewis Mine, a small (4,000,000-ton) heap leach operation, on patented and unpatented lands leased from Mr. Frank Lewis. The ore processed at the Lewis facility was mined from the northern end of the Central Fault. In 1985, HRDI acquired the Crofoot claim block and in 1987 procured the Lewis facility and leases from the Standard Slag Corp. Processing activities at the Lewis Mine were terminated in September of 1993. The Lewis site has since been closed. The Crofoot processing facility was constructed by HRDI and began precious metal production in October of 1987. The bulk of the ore (66 million tons) shipped to the Crofoot leach pads originated at the Central Fault pit complex. This pit was active from 1987 until 1997. Of the material placed on the heaps, 46 million tons were crushed to -3/4 inch and 20 million tons were run-of-mine ore.



In 1997 and early 1998 an additional five million tons of run-of mine material were transported from the Brimstone deposit, an ore body located on the East Fault, to the Crofoot site. This was the last ore to be placed on the Crofoot leach pads. The balance of the ore from the Brimstone deposit went to the Brimstone leach pad and plant adjacent to the Brimstone pit. The Hycroft Mine was placed in a care and maintenance program in late 1998 due to low metal prices. The process operations continued until 2004 when the process facilities were placed in care and maintenance.

In 2007, HRDI became a wholly owned subsidiary of Allied Nevada Gold Corp. Hycroft Resources and Development, Inc. made the decision in the third quarter of 2007 to reactivate the Hycroft Mine which resumed open pit mining in the third quarter of 2008. Present leaching at the Brimstone facility continues to recover gold and silver contained in the heaps.

The Hycroft Mine is currently authorized to disturb 2,851 acres within the Plan boundary associated with pits, waste rock facilities (WRFs), heap leaching, roads, growth media stockpiles, and exploration activities.

## 3 DESCRIPTION OF OPERATIONS

### 3.A Topographic Map and Project Location

The Hycroft Mine is located approximately 55 air miles west of Winnemucca, Nevada in Humboldt County and Pershing County as shown on Figure 1.

#### 3.A.a Boundaries of Area of Operation

The Hycroft Mine is located on private land controlled by HRDI and public lands administered by the BLM. Table 3.A-1 presents the legal description of the project. Figure 2 presents the land status and plan boundary.

**Table 3.A-1: Legal Description of the Project Area**

Township	Range	Sections
34 North	29 East	1, 2, 3, 4, 9, 10, 11, 12, 14
35 North	29 East	13, 14, 22, 23, 24, 25, 26, 27, 33, 34, 35, 36
35 North	30 East	16, 17, 18, 19, 20, 21, 28, 29, 30, 31, 32

#### 3.A.b Surface Ownership within the Area of Operation

Figure 2 shows land status within the proposed area of operation. The proposed project area is located on private lands owned or controlled by HRDI and public lands administered by the BLM. No U.S. Forest Service land or state lands are located within the Plan boundary. Hycroft Resources and Development, Inc. does not currently own patented mining claim MS 4598, parcel no. 001-601-03 located in Humboldt County, Nevada.

#### 3.A.c Description of Areas to be Disturbed

Hycroft Resources and Development, Inc. is amending the existing plan to:

- Expand the plan boundary to the south, east, and west;
- Incorporate rights-of-ways into the plan area;
- Provide for exploration over the entire plan area;
- Expand the existing Brimstone, Bay Area, Boneyard, and Center pits;
- Backfill all or portions of the Boneyard, Bay Area, Center and Brimstone pits;

- Construct a dispatch center near the expanded Brimstone Pit;
- Expand haul and secondary roads around the pits, Waste Rock Facilities (WRFs), and heaps;
- Construct two ready line and heavy equipment fueling areas and expand the existing ready line and fueling area;
- Expand the existing WRFs;
- Construct, operate, and reclaim the South WRF and associated haul roads;
- Operate a portable crusher with conveyors at the South Heap Leach facility;
- Construct, operate, and close the North Brimstone Heap and associated process ponds, and Merrill Crowe plant;
- Expand the existing fresh water pond;
- Construct, operate, and close the South Heap, Merrill Crowe process plant, and solution ponds;
- Re-locate a segment of the Seven Troughs Road to bypass the South Heap facilities;
- Expand the existing refinery;
- Expand the existing Brimstone Merrill-Crowe plant;
- Construct stormwater diversions, install culverts, and other stormwater controls;
- Close the existing Class III landfill and construct a new Class III landfill on private land;
- Construct one potable water well and one process well;
- Relocate the existing Brimstone substation, upgrade the existing Crofoot substation, and extend power lines to new process areas;
- Expand maintenance facilities; and
- Construct growth media stockpiles.

The currently authorized disturbance by facility and land status is provided in Table 3.A-2 and shown on Figure 3.

**Table 3.A-2: Authorized Disturbance by Land Status**

Facility	Disturbance		
	Public	Private	Total
<b>Roads</b>			
Exploration Roads and Pads	20.0	53.6	73.6
Small Vehicle Mine Roads	19.5	14.6	34.1
Haul Roads	45.1	22.9	68.0
<b>Total Roads</b>	<b>84.6</b>	<b>91.1</b>	<b>175.7</b>
<b>Pits, Adits, Trenches</b>			
Boneyard Pit	0.0	19.6	19.6
Brimstone Pit	28.0	256.3	284.3
Crofoot Pit	3.0	0.7	3.7
Gap Pit	39.2	38.7	77.9
Bay Area Pit	80.3	41.7	122.0
South Center Pit	25.2	225.7	250.9
<b>Total Pits, Adits, Trenches</b>	<b>175.7</b>	<b>582.7</b>	<b>758.4</b>
<b>Process Ponds and Pond Areas</b>			
Brimstone Ponds	0.0	3.4	3.4
Crofoot Ponds	12.7	0.0	12.7
Lewis Ponds	0.0	4.6	4.6
Freshwater Ponds	2.3	1.6	4.0
<b>Total Ponds</b>	<b>15.0</b>	<b>9.8</b>	<b>24.8</b>
<b>Heap Leach Pads</b>			
Crofoot	354.2	0.0	354.2
Brimstone - Phase I	0.0	92.4	92.5
Brimstone - Phase II	91.1	39.6	130.7
Lewis	5.9	60.5	66.4
<b>Total Heap Leach Pads</b>	<b>451.2</b>	<b>192.6</b>	<b>643.8</b>
<b>Waste Rock Facilities</b>			
East WRF	5.1	555.5	560.6
North WRF	163.8	113.8	277.6
West WRF	242.3	21.7	264.0
<b>Total WRF</b>	<b>411.2</b>	<b>891.0</b>	<b>1102.2</b>
<b>Yards</b>			
Misc.	183.7	115.6	299.3
Growth Media	16.1	0.0	16.1
Stockpile	4.4	7.3	11.7
Landfill	2.6	1.6	4.2
Borrow Area	13.7	0.0	13.7
Foundations & Bldgs.	3.4	0.5	3.9
<b>Total Yards</b>	<b>223.9</b>	<b>125.0</b>	<b>348.9</b>
Lewis Camp	9.3	0.0	9.3
<b>Total</b>	<b>1,370.9</b>	<b>1,692.3</b>	<b>3,063.2</b>

Sources: Hycroft\_DisturbanceTable\_172300220\_20101007\_FNL.xlsx; NDEP Reclamation Permit, January 2010

Current operations at the site include open pit mining, heap leaching and precious metal processing, engineering and environmental studies, permit compliance, and exploration. The principal components of the Project include:

### **Open Pits**

- Brimstone Pit, Center Pit Area including the South Center, Center, Sulfur pits, Bay Area Pit, Gap Pit, and Boneyard Pit.

### **Waste rock facilities**

- North, East, and West WRF complexes including prill towers and powder magazines;

### **Crofoot Facility (in closure)**

- Clay lined heap leach pad (Pads # 1, 2, 3 and In-fill Pad);
- low pregnant pond; and
- Merrill-Crowe plant (will be removed as part of closure in 2010).

### **Brimstone Facility**

- Brimstone Heap;
- Brimstone portable crusher and conveyors;
- Settling pond, barren pond, low-pregnant pond, high-pregnant pond, emergency overflow pond and ponds from the Crofoot facility including the pregnant pond, emergency overflow pond, and their leak detection devices;
- Four Lime silos;
- Carbon columns;
- Merrill-Crowe plant including clarifiers, presses, mercury retort, etc.; and
- Refinery.

### **Ancillary Facilities**

- Water distribution system including water wells, fresh water storage ponds, and a potable water tank and distribution system;
- Petroleum-contaminated soils storage and treatment pads;
- Fuel storage and dispensing stations;
- Truck shop, electrical shop, light vehicle shop, carpenter shop;
- Septic systems;
- Truck wash;
- Class III-waivered landfill;
- Maintenance shops, administration building, laboratory, warehouse;

- Stormwater diversions and control features;
- Growth media stockpiles and clay stockpile;
- Light vehicle roads;
- Substations;
- Lewis Camp;
- Clay stockpile; and
- Clay borrow area.

**3.A.d Areas Disturbed by Previous Operator(s) and Inactive**

Table 3.A-3 presents disturbance from prior operators. Hycroft Resources and Development, Inc. will take responsibility for mining-related disturbances within the Plan boundary.

**3.A.e Areas Disturbed by Current Operator Prior to January 1, 1981 and Inactive**

Summarized in Table 3.A-3.

**3.A.f Areas Disturbed by Current Operator Prior to January 1, 1981 and Still Active**

Summarized in Table 3.A-3.

**3.A.g Areas Disturbed by Current Operator After January 1, 1981, But Prior to October 1, 1990 and Inactive**

Summarized in Table 3.A-3.

**3.A.h Disturbed By Current Operator After January 1, 1981, But Prior to October 1, 1990 and Active**

Summarized in Table 3.A-3.

**3.A.i Areas Which are Active On or After October 1, 1990**

Summarized in Table 3.A-3.

**Table 3.A-3: Disturbance from Past and Present Operators**

<b>Operator</b>	<b>Time of Disturbance</b>	<b>Status</b>	<b>Size of Area (Acres)</b>
Previous Operator <sup>1</sup>	To Date	Inactive	24
Current Operator	Prior to January 1, 1981	Inactive	0
Current Operator	Prior to January 1, 1981	Active	0
Current Operator	After January 1, 1981, but prior to October 1, 1990	Inactive	0
Current Operator <sup>2</sup>	After January 1, 1981, but prior to October 1, 1990	Active	788
Any	On or After October 1, 1990		2693.5
Any <sup>3</sup>	Prior to January 1, 1981	Access Roads	25

Source:Hycroft\_DisturbanceTable\_172300220\_20101007\_FNL.xlsx

Notes:

1. While previous reclamation plans included 24 acres in this category they did not identify where it is from. HRDI is unable to verify this number.
2. Previous reclamation plans did not detail where the 788 acres came from and HRDI is unable to verify this number.
3. Previous reclamation plans did not detail where the 25 acres came from and HRDI is unable to verify this number.

**3.A.j Location of Access Roads Existing Prior to January 1, 1981**

A portion of Jungo Road is located within the existing plan boundary, shown on Figure 2, and was in existence prior to January 1, 1981. Construction of the Crofoot Heap Leach facility after January 1, 1981 did require a portion of the road to be relocated to allow for continued public access.

**3.A.k Location of Surface Water Bodies**

The Hycroft Mine is located on the eastern edge of the Black Rock Desert. No streams, rivers, or major lakes are located in the general area. Several permanent surface waters are located within one mile downgradient of the mine:

Sulfur Spring emanates from a man-made excavation with flows disappearing into alluvial gravels within a few hundred feet of the source;

Several spring boxes which are shallow man-made wells that penetrate a water-bearing clay deposit; and,

Four small clay ponds formed from depressions left after HRDI excavated clay for use as leach pad liner material.

Due to the poor quality and limited quantity, these waters are not utilized as potable or process water sources.

**3.B Proposed Disturbance Acreages**

The total incremental proposed public disturbance is 2,060 acres, private disturbance is 112 acres and total is 2,172 acres. A summary of the total proposed disturbance acreage is provided in Table 3.B-1.

**Table 3.B-1: Estimate of the Acreage of Proposed Disturbance**

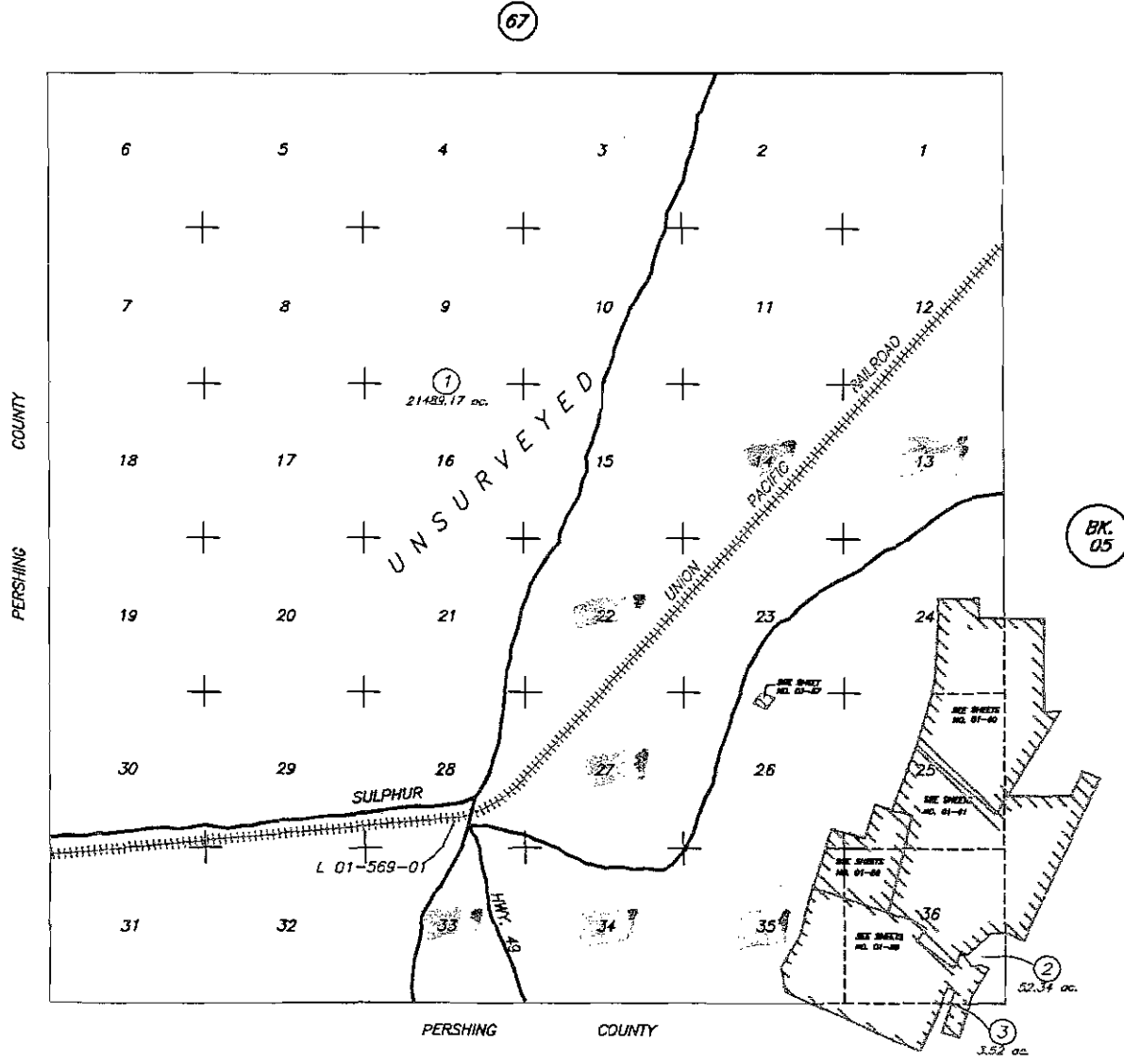
Facility	Total Proposed Disturbance (acres)		
	Public	Private	Total
<b>Roads</b>			
Exploration Roads and Pads	50	54	104
Small Vehicle Mine Roads	20	15	35
Haul Roads	36	12	48
<b>Total Roads</b>	<b>106</b>	<b>81</b>	<b>187</b>
<b>Pits, Adits, Trenches</b>			
Bay Area Pit	126	103	229
Boneyard Pit		64	64
Brimstone Pit	50	391	441
Center Pit	182	370	552

Facility	Total Proposed Disturbance (acres)		
	Public	Private	Total
<b>Total Pits, Adits, Trenches</b>	<b>358</b>	<b>928</b>	<b>1,286</b>
<b>Process Ponds and Pond Areas</b>			
Brimstone Ponds	0	4	4
Crofoot Ponds	13	0	13
Freshwater Ponds	3	3	6
Lewis Ponds	0	5	5
North Ponds	17	0	17
South Ponds	17	0	17
<b>Total Ponds</b>	<b>50</b>	<b>12</b>	<b>62</b>
<b>Heap Leach Pads</b>			
Brimstone Heap	201	246	447
Crofoot Heap	355	0	355
South Heap	495	0	495
<b>Total Heap Leach Pads</b>	<b>1,051</b>	<b>246</b>	<b>1,297</b>
<b>Waste Rock Facilities</b>			
East WRF	6	244	250
North WRF	205	63	268
South WRF	455	114	569
West WRF	359	13	372
<b>Total WRF</b>	<b>1,025</b>	<b>434</b>	<b>1,459</b>
<b>Ancillary</b>			
Borrow Area	14	0	14
Growth Media Stockpile	166	2	168
Miscellaneous	566	91	657
Stormwater Diversion	73	12	85
Foundations & Bldgs.	10	1	11
<b>Total Ancillary</b>	<b>829</b>	<b>106</b>	<b>935</b>
Lewis Camp	9	0	9
<b>Total</b>	<b>3,428</b>	<b>1,807</b>	<b>5,235</b>

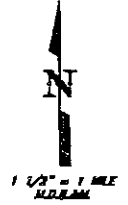


1-561-01,02,03 BLM

01-56



T.35N., R.29E.



BK. 05

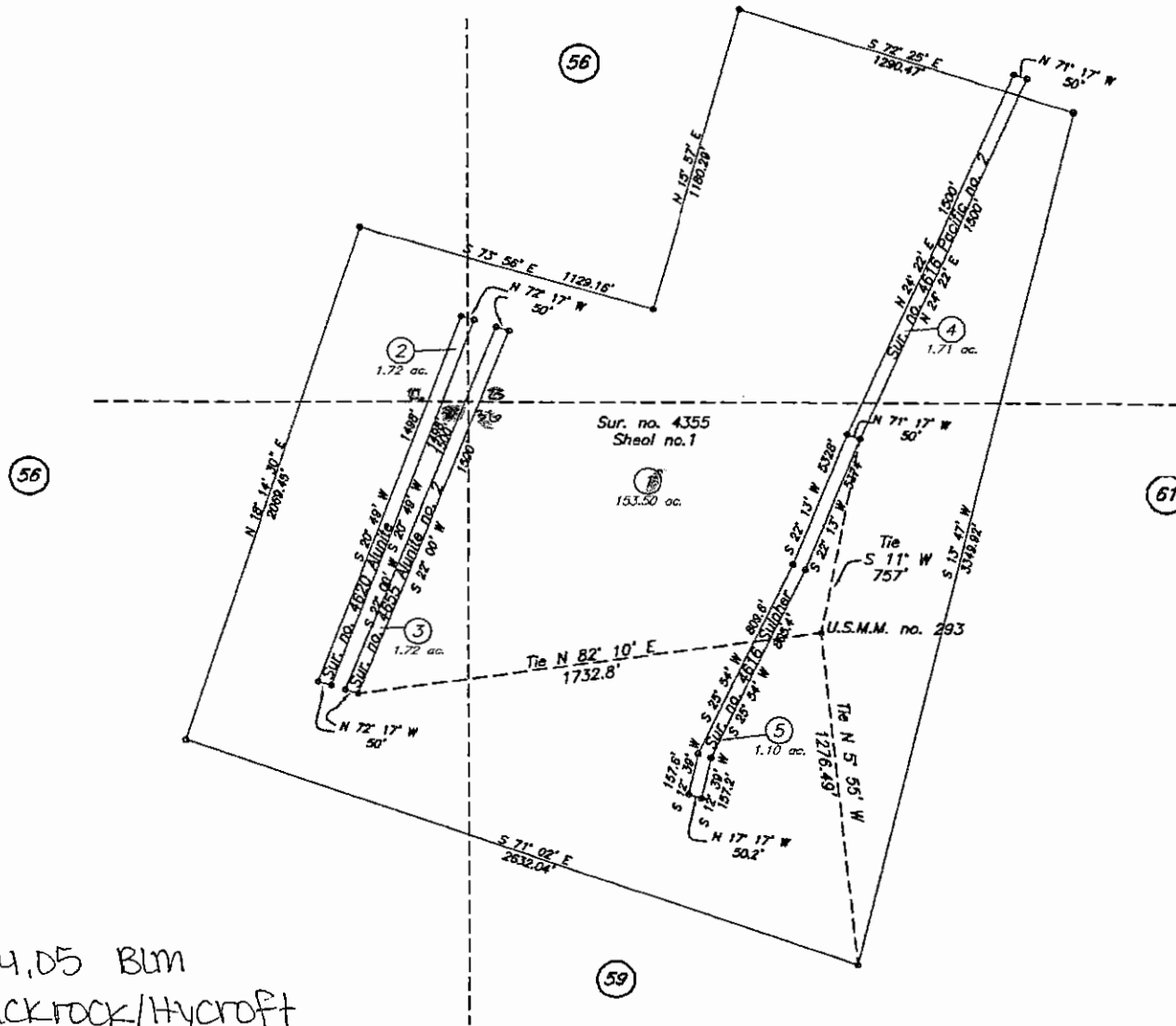
HUMBOLDT COUNTY

NOTE: This plat is for assessment purposes only and does not represent a survey of the lands on this plat.

HUMBOLDT COUNTY ASSESSOR'S OFFICE  
REVENUE DIVISION 20142

UH-12-04  
 HYCROFT RESOURCES & DEV  
 MINE EXPANSION  
 APN: 1-581-01, 1-591-01, 1-591-06, 1-601-10  
 1-611-09, 1-611-04, 1-611-05, 1-611-06, 1-611-10

Portion of Sections 25, 26, 35, & 36



T.35N.,R.29E.



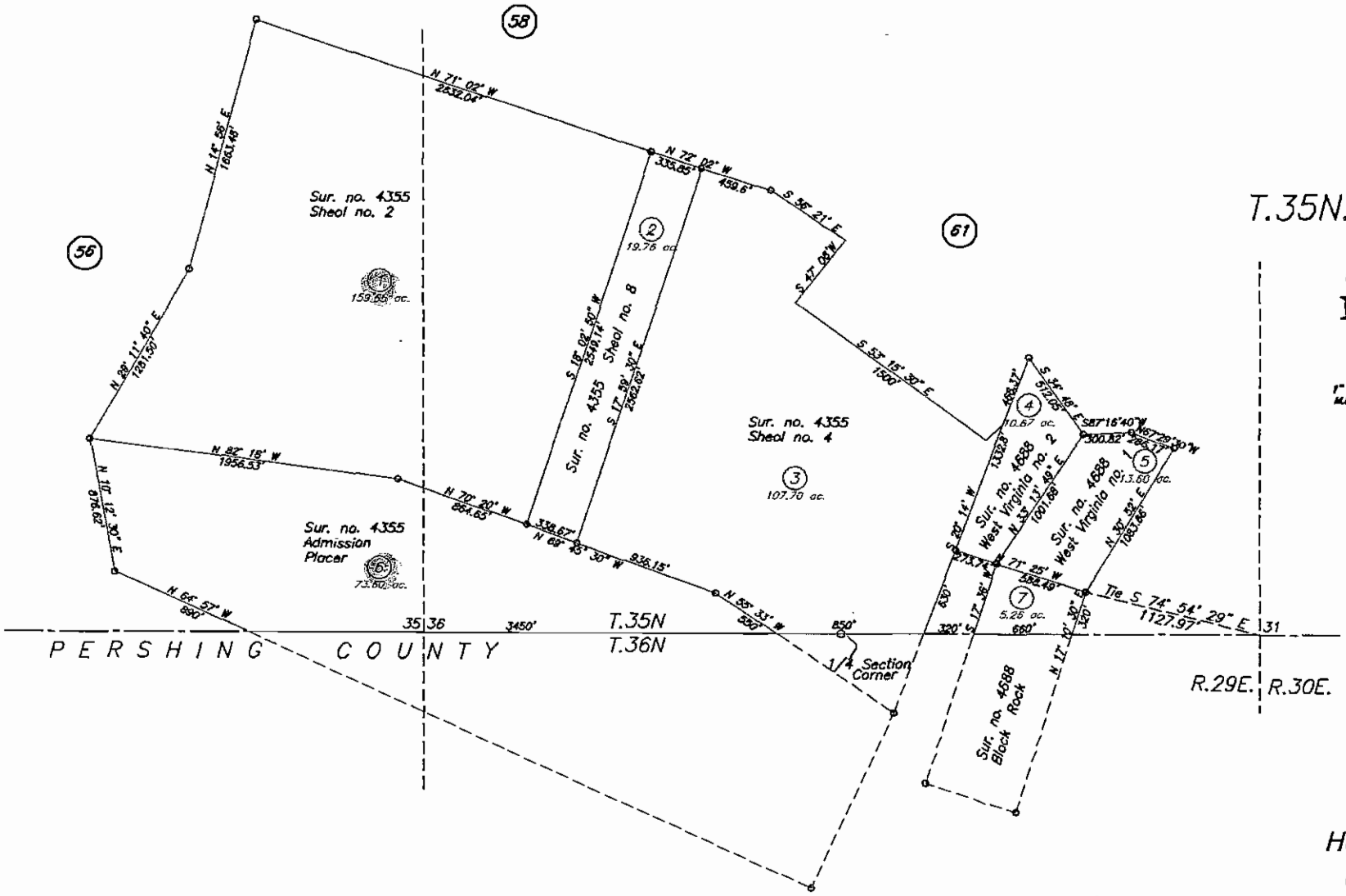
1-581-02,03,04,05 Blm  
 1-581-01 Blackrock/Hycroft

**UH-12-04**  
**HYCROFT RESOURCES & DEV**  
**MINE EXPANSION**  
 APN: 1-581-01, 1-591-01, 1-591-06, 1-601-10  
 1-611-09, 1-611-04, 1-611-05, 1-611-06, 1-611-10

**HUMBOLDT COUNTY**

NOTE: This plot is for assessment purposes only and does not represent a survey of the lands on this plot.

Portion of Section 35 & 36



T.35N., R.29E.



PERSHING COUNTY

R.29E. R.30E.

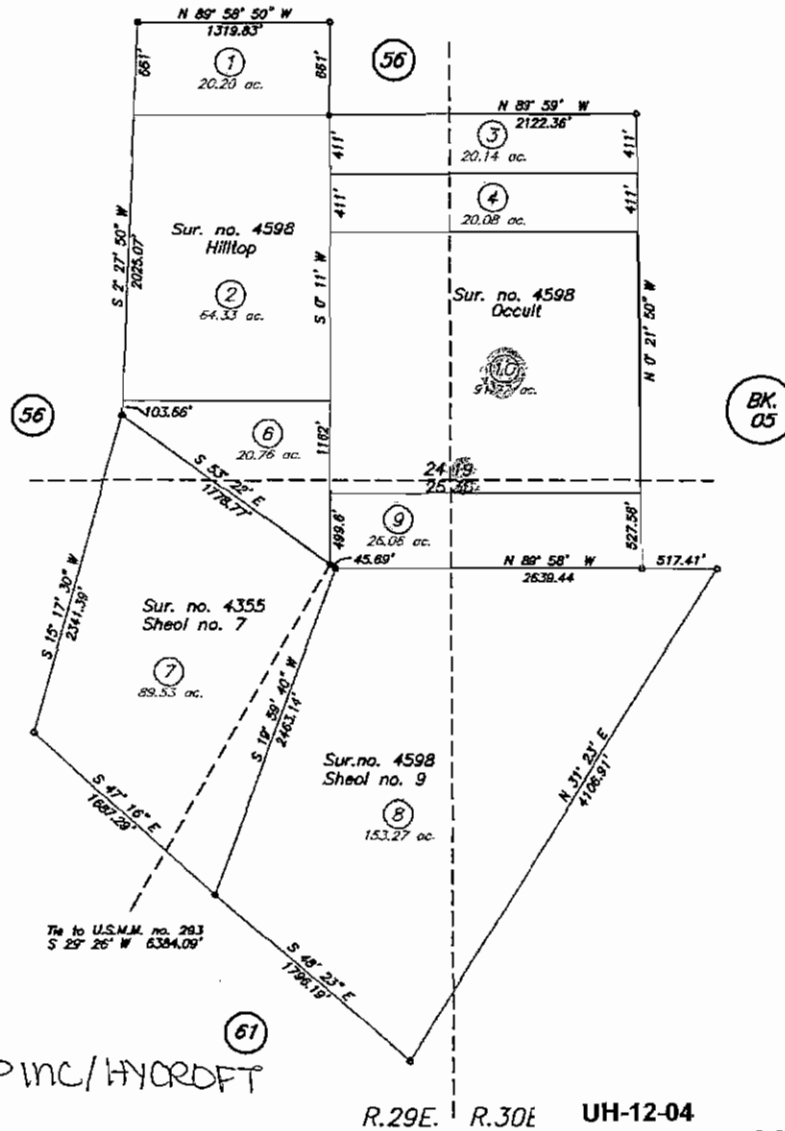
HUMBOLDT COUNTY

NOTE: This plot is for assessment purposes only and does not represent a survey of the lands on this plot.

HUMBOLDT COUNTY ASSESSOR'S OFFICE  
BIRMGHAM, NEVADA 89443

UH-12-04  
 HYCROFT RESOURCES & DEV  
 MINE EXPANSION  
 APN: 1-581-01, 1-591-01, 1-591-06, 1-601-10  
 1-611-09, 1-611-04, 1-611-05, 1-611-06, 1-611-10

Portion of Sections 24 & 25, R. 29 E.  
Portion of Sections 19 & 30, R. 30 E.



T. 35N., R. 29 & 30E.



HUMBOLDT COUNTY

NOTE: This plot is for information purposes only and does not represent a survey of the land on this plot.

HUMBOLDT COUNTY ASSESSOR'S OFFICE  
EUREKA, CALIF. 95545

1-601-07 BLACKROCK PRDP INC/HYCROFT  
 1-601-03 SANTOS  
 1-601-01, 02, 04, 06, 07, 08, 09, 10 HYCROFT

R. 29 E. R. 30 E

UH-12-04  
 HYCROFT RESOURCES & DEV  
 MINE EXPANSION  
 APN: 1-581-01, 1-591-01, 1-591-06, 1-601-10  
 1-611-09, 1-611-04, 1-611-05, 1-611-06, 1-611-10

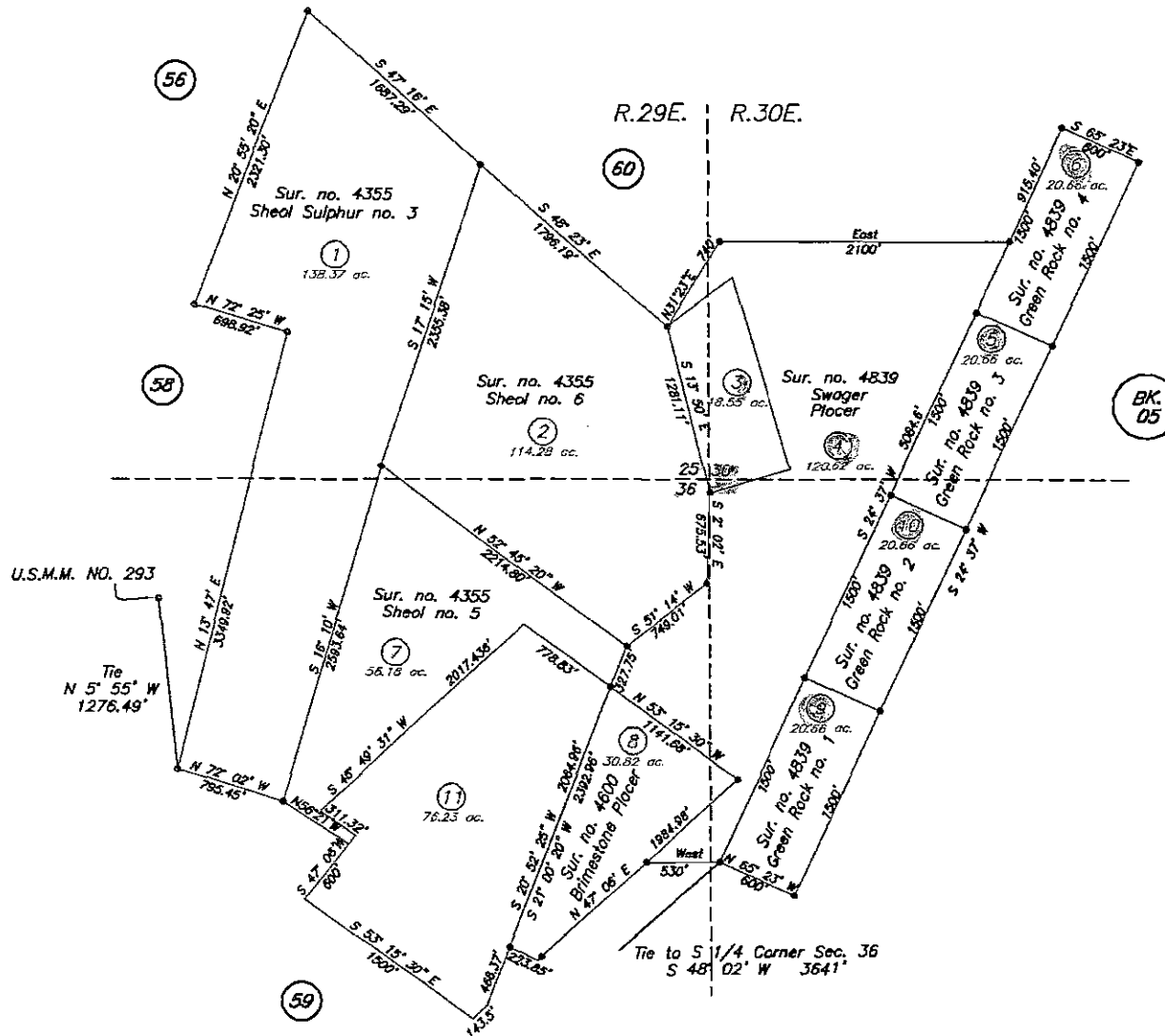
1-611-03 BLM

1-611-08+11 HYCROFT

1-611-04,05,06,09,10, BLACKROCK PROP INC/HYCROFT  
01,02,07

01-61

Portion of Sections 25 & 36, R. 29 E.  
Portion of Sections 30 & 31, R. 30 E.



T.35N.,R.29&30E.

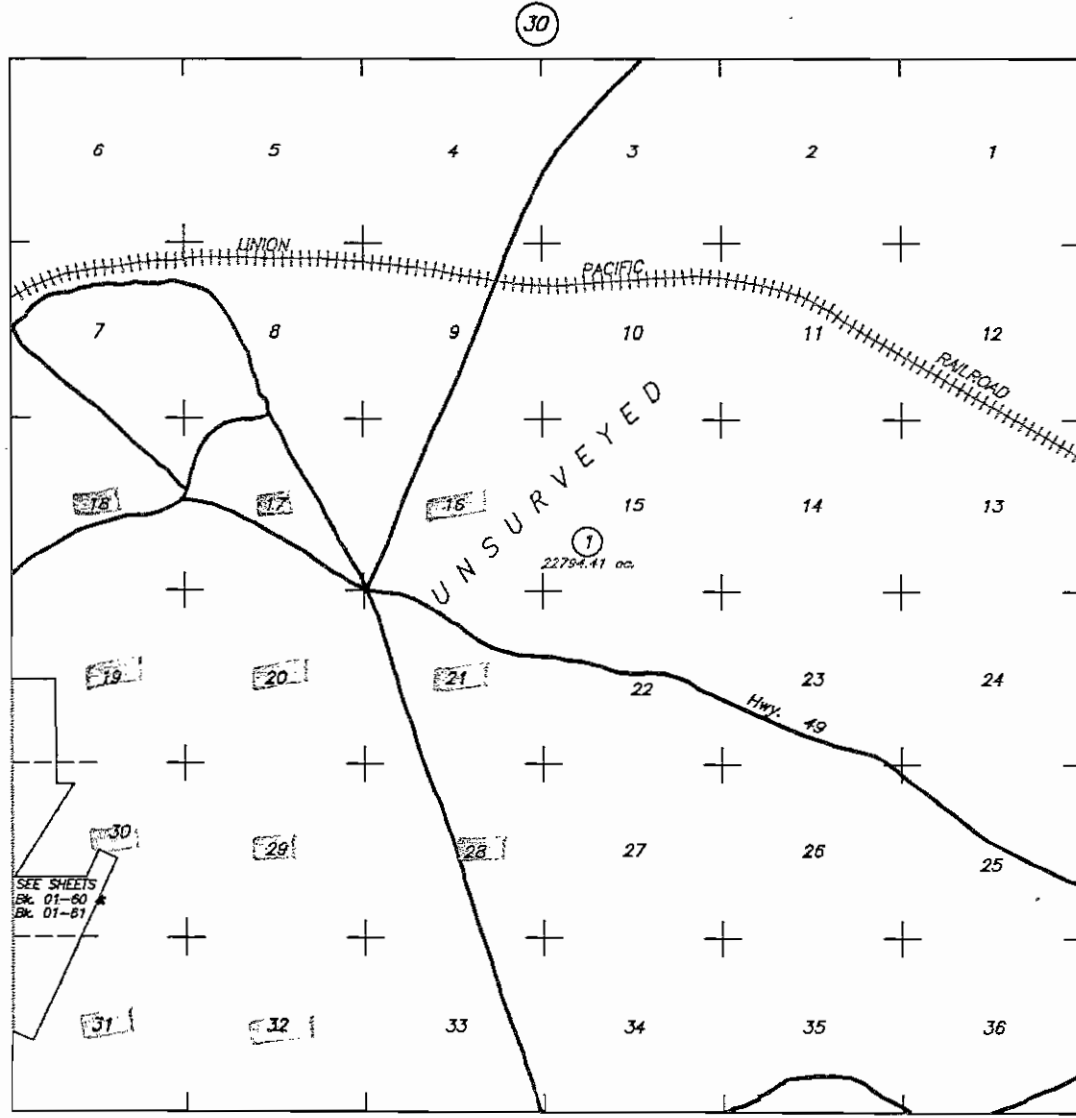


HUMBOLDT COUNTY

NOTE: This plat is for measurement purposes only and does not represent a survey of the lands on this plat.

HUMBOLDT COUNTY ASSESSOR'S OFFICE  
EMERSON, NEVADA 89405

UH-12-04  
HYCROFT RESOURCES & DEV  
MINE EXPANSION  
APN: 1-581-01, 1-591-01, 1-591-06, 1-601-10  
1-611-09, 1-611-04, 1-611-05, 1-611-06, 1-611-10



~~T35N, R. 30E.~~



BK.  
01

39

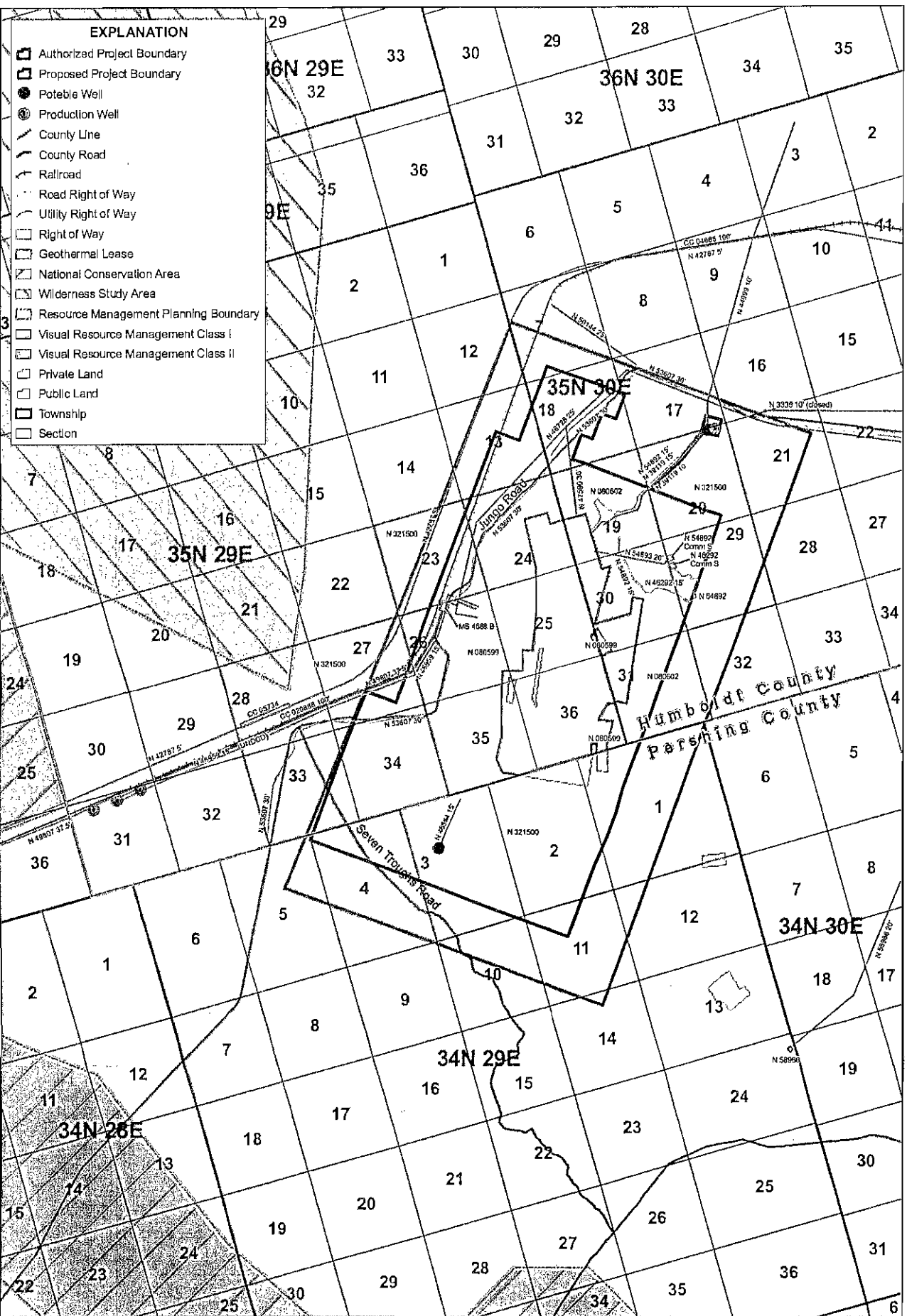
SEE SHEETS  
 Bk. 01-80  
 Bk. 01-81

HUMBOLDT  
COUNTY

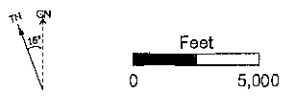
NOTE: This plat is for assessment  
purposes only and does not represent  
a survey of the lands on this plat.

HUMBOLDT COUNTY ASSESSOR'S OFFICE  
WINDMILL, NEVADA 89445

UH-12-04  
 HYCROFT RESOURCES & DEV  
 MINE EXPANSION  
 APN: 1-581-01, 1-591-01, 1-591-06, 1-601-10  
 1-611-09, 1-611-04, 1-611-05, 1-611-06, 1-611-10



EXPLANATION	
	Authorized Project Boundary
	Proposed Project Boundary
	Potable Well
	Production Well
	County Line
	County Road
	Railroad
	Road Right of Way
	Utility Right of Way
	Right of Way
	Geothermal Lease
	National Conservation Area
	Wilderness Study Area
	Resource Management Planning Boundary
	Visual Resource Management Class I
	Visual Resource Management Class II
	Private Land
	Public Land
	Township
	Section



**SRK Consulting**  
 Engineers and Scientists

HYCROFT MINE GRID

DESIGN: PL DRAWN: BVB REVIEWED: VBS  
 SCALE: 1 inch = 5,000 feet DATE: 03/31/2010  
 FILENAME: PoO Fig02 Land Status BVB 26100331.mxd

**HYCROFT MINE EXPANSION PROJECT**  
**HYCROFT RESOURCES AND DEVELOPMENT, INC.**

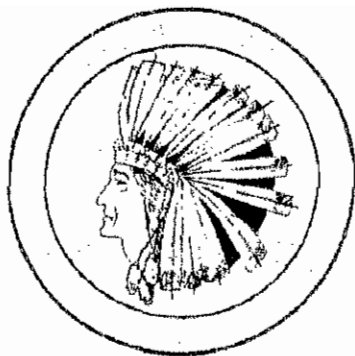
DRAWING TITLE: **LAND STATUS AND WATER WELLS**

ISSUED FOR: **HYCROFT MINE EXPANSION**

DRAWING NO.: **FIGURE 2** REVISION NO.: **A**

SRK JOB NO: **172300.260**

UH-12-04  
 HYCROFT RESOURCES & DEV  
 MINE EXPANSION  
 APN: 1-581-01, 1-591-01, 1-591-06, 1-601-10  
 1-611-09, 1-611-04, 1-611-05, 1-611-06, 1-611-10



# REGIONAL PLANNING DEPARTMENT

HUMBOLDT COUNTY COURTHOUSE WINNEMUCCA, NV 89445  
OFFICE (775) 623-6392 FAX (775) 623-6395

## NOTICE OF PUBLIC HEARING

NOTICE IS HEREBY GIVEN THAT ON **THURSDAY, APRIL 12, 2012** at 5:30 P.M. the **Humboldt County Regional Planning Commission** will hold a public hearing in the Meeting Room, Humboldt County Courthouse, Second Floor, Winnemucca, Nevada to consider the following:

**UH-12-04** A conditional use permit application submitted by Warren Woods as General Manager of Hycroft Resources & Development, Inc. to allow for a mine expansion. The subject property is zoned M-3 (Open Land Use District) and is located within T35N, R29E, Sections 13, 14, 22, 27, 33, 34, 35 M.D.B. & M.; T35N, R30E, Sections 16, 17, 18, 19, 20, 21, 28, 29, 30, 31, 32; assessor's parcel #'s 1-581-01, 1-591-01, 1-591-06, 1-601-10, 1-611-09, 1-611-04, 1-611-05, 1-611-06, 1-611-10.

### "SUBJECT TO CHANGE"

**NOTE:** If you plan to attend this meeting, please contact the Planning Department office before the meeting to verify this agenda item has not been withdrawn or rescheduled.

**NOTICE TO PERSONS WITH DISABILITIES:** Members of the public who are disabled and require special assistance or accommodations at the meeting are requested to notify the **COUNTY ADMINISTRATOR** in writing at the Humboldt County Courthouse, Room 205, Winnemucca, Nevada 89445, or by calling (775) 623-6300 at least one (1) day in advance of the meeting.