



JIM GIBBONS
Governor

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.state.nv.us/>

Las Vegas Branch:
2030 E. Flamingo Rd.
Suite #220
Las Vegas, Nevada 89119
(702) 486-4343
Fax (702) 486-4345

ALAN R. COYNER
Administrator

ACTIVITY AND ACHIEVEMENTS
March 2009

ADMINISTRATION (ALAN)

1. Provided information on the Nevada mining industry to Rob Sabo of Northern Nevada Business Weekly for their spring mining edition.
2. Met with Barb and Doug from the 4th Ward Museum to discuss funding an additional project to inform visitors about modern mining.
3. Provided the presentation "Update on Mining, Exploration, and Bonding in Nevada" to the annual meeting of the American Association of Professional Landmen in Reno.
4. Participated in a USACE RAMS conference call and finalized plans for a trip to Washington DC on April 20 to give AML briefings to Congressional staff.
5. Restarted and revised the email list for the Nevada Abandoned Mine Lands Environmental Task Force (NAMLET).
6. Travelled to Winnemucca and did a field recon with Eagle Scout Trevin Jarrett and his father Jeff, a maintenance foreman at Newmont's Twin Creeks mine.
7. Presented "Nevada's Rocks and Minerals" to four classes of third graders at Esther Bennett Elementary School in Reno.
8. Met with Noresco concerning the geothermal retrofit at the Lovelock prison.
9. Attended a geothermal industry/BLM meeting in Winnemucca.
10. Visited Nevada Geothermal Power's Blue Mountain project near Winnemucca.
11. Responded to a request from Lisa Shevenell of the Great Basin Center for Geothermal Energy (GBCGE) for financial assistance through an increase to the geothermal fees paid to the Division by the geothermal industry.
12. Attended the Nevada Geothermal Council monthly meeting in Reno. Provided the NGC with the total amount of fees collected by NDOM from the geothermal industry for fiscal years 2007 and 2008.
13. Presented the agency budget for FY10/FY11 to the Legislative joint money committee. Received no questions or comments.
14. Attended the NvMA legislative reception in Carson City.
15. Attended Geothermal Day at the Legislature and manned the agency booth.
16. Attended the SME monthly meeting in Reno.
17. Attended the Nevada Miners and Prospectors meeting in Reno.
18. Attended the monthly meeting of the GSN Symposium 2010 committee.

RECLAMATION BOND POOL (DOUG)

1. Sent out invoices for participants on a quarterly premium schedule.
2. Spoke with three participants about their December payments being seriously past due. All of the late premium payments which were due by December 31, 2008 were paid before the forfeiture deadline, except one. The notice level bond of HE-5 Resources in the amount of \$3,826 will be terminated. Terminated the bond for HE-5 Resources and notified the BLM.

3. Reviewed and commented on a press release prepared by GoldSpring (Plum Mining).
4. Processed 2 bond reductions; MGC Resources and Rimfire Minerals Corp.
5. Issued a notice level bond for TXAU, Inc.
6. Spoke with Richard Harris about a bond increase for Phoenix Joint Venture.
7. Released a notice level bond for Britannia Gold Corp. Issued the same bond to Hunsaker, Inc. as a change of operator.

MINING, LAND AND OTHER ISSUES (DOUG)

1. Spoke with Adella Harding, now back in Elko with the Elko Daily Free Press, about mining claim filings.
2. Spoke with Idonna Trevino (Lander Co. Recorder) about a claim question.
3. Met with Pat Snyder who brought in evidence of some unsolicited AML securings he had done in Lyon County.
4. Spoke with Roland Erikson about permits required to start up a small mine.
5. Initiated the work program for the \$30,000 for the contract for AML site re-visit/repair. Sent out request for proposal (RFP) to get bids for the AML site re-visit/repair job. Reviewed responses to the request for proposal for the AML site re-visit/repair contract. Selected a company called Environmental Protection Services.
6. Initiated the work program for the CMR's support of the Great Basin Science Center.
7. Requested the DMV records from the 8 selected Summer Interns.
8. Began work compiling the 2008 Nevada mineral production. Worked with Debbie on some Annual Status & Production Reports
9. Attended the Nevada Miners & Prospectors meeting in Reno.

AML / PUBLIC AWARENESS - NORTH (MIKE)

1. Jeff Marchand (new employee at BLM-CC) called to inquire about our AML Program and provided information on an unsecured mine hazard near the V&T RR route near Silver City. A copy of our field map for the area was emailed to assist him in identifying the actual hazard number. He plans to re-visit the area this week.
2. Chris Ross (BLM-NSO) requested a "hit list" of potential bat habitat AML sites on public lands in Clark, Esmeralda and Nye counties that might benefit from NEPA work as part of the ARRA stimulus bill. Worked with Paul to query database using GIS and generate lists for Nye and Esmeralda. Bill supplied a list for Clark County and a subset for Esmeralda. 640 sites were identified on BLM-managed lands in Nye County that were either unsecured, posted, barricaded or fenced and may provide habitat for bats.
3. Elizabeth Lane (NPS-Lake Mead) requested a data sharing agreement to facilitate the exchange of AML data between our agencies. She requested and received NDOM data for Lake Mead NRA and is currently working to mesh it with their own database. AML sites and securing information not currently in our database could be added and updated pending this data exchange. A formal assistance and data sharing agreement is being developed with NPS.
4. Kel Buchanan (HB Engineering) requested NDOM-generated data related to the state-owned Monte Cristo patented mining claims for use in an appraisal of the property. A CD of related image files, scans of hazard ID sheets, GIS shapefiles and background information was forwarded to him.
5. Spoke with Wally Robison (Robison Engineering) who called to request additional information regarding the re-visit/repair contract.

6. After meeting with Baylen Limasa (NV State Archives), they will be able to more cost-effectively perform the digital scanning of our archived AML slides. Lisa Desautels (Graphic Imaging, LV) will be doing some digital scanning of slides from the LV office (Lincoln and White Pine); however the majority of the work will be performed by State Archives. Slides of hazards in and around the greater Reno/Carson are will be scanned first to assist with the planned re-visit/repair pilot project.
7. Attended a NAAML P Hardrock Committee conference call. Items discussed were: ARRA stimulus status, adding of links to state AML programs on national websites, response to anti-AML remediation groups (Mojave Underground), AMLIS data entry for OSM funding.
8. Gene Seidlitz (BLM-Winnemucca District Manager) has requested a meeting on April 28th to present NDOM's AML program to his staff and discuss strategies for mitigation.
9. Stacy Holt (NPS-Death Valley) requested and received additional AML database information and clarification regarding AML hazards and non-hazards inventoried by NDOM within the Nevada "triangle" portion of Death Valley National Monument.
10. Stanley Levers (BV Nevada) called to request information and updates on potential contract work related to ARRA stimulus monies that may flow through NDOM. Communicated with Stan regarding their work at Gooseberry. A fence will be installed around the newly exposed escape shaft (following removal of old headframe). When steel headframe is removed over main shaft, they will secure it with a welded steel plate. Pictures documenting the work will be forwarded at same time as those for NDEP.
11. Performed ownership research on AML hazards recently logged in Esmeralda and Nye counties. More than 20 were orphans and are available for immediate fencing. The Geotemps contractors will do securing work on the higher ranked hazards and those closest to the proposed Vegas to Reno off-road race route; the remainder will be secured by the interns early this summer.
12. Communicated with Holly Smith (State Lands) regarding a data sharing agreement they have that we may be able to use as a template with National Park Service for GIS data.
13. Performed reconnaissance on a cluster of orphan hazards east of Yerington for an upcoming scout project; two additional hazards and one non-hazard were logged.
14. Communicated with Brandon MacDougal regarding fencing work at the Burrus Mine complex by the Mackay Club later this spring.
15. Re-visited the Burrus Mine complex to assess current road and access conditions in advance of next week's UG training class. Performed re-visits of ten hazards on the UNR property documenting their current state, logged two new orphan hazards and 11 non-hazards.
16. Attended a day-long underground refresher safety class presented by the BLM. Assisted trainer, Marc Springer (BLM-CA State Office), with materials for field portion of class at Burrus Mine. Class attended by 15 people from BLM, FS, NDOW and NDOM.
17. Review Geotemps contractor work in Nye and Esmeralda counties, update ownership, update photo and Access databases.
18. Communicate with Geotemps regarding expenditures to date on contract. Roughly \$22k remains on contract, sufficient for continued field work through most of April.
19. Unsecured hazard reported by concerned citizen in the Moundhouse area was investigated. Ten re-visits were made and eight non-hazards were logged in Lyon County. The hazard of concern is a minimal one (<6' deep) and mostly filled with concrete debris and trash. A sign will posted between it and the adjacent road. All other

hazards were found still satisfactorily secured, though many could use new signage. The claimant will be notified.

20. Jim Carver (Boy Scout Assistant Scoutmaster Troop 21) provided NDOM with names of four scouts interested in doing AML fencing for their Eagle Service projects. One scout, Trevin Jarrett, turns 18 on April 28th and will need to be fast-tracked. Updated ownership research narrowed our list of available and suitable orphan sites, but we have enough for two projects and possibly a third. Additional field work this summer should yield more than enough to cover the other projects. Sent informational packet to Boy Scout, Trevin Jarrett (Winnemucca), summarizing our AML program and past Eagle Service projects. Trevin turns 18 in late April so we'll need to fast track his recon and project. Alan will conduct the reconnaissance on the 24th and I will supervise the fencing project on the 18th. Four additional scouts from the same troop are interested in doing similar projects.
21. Met with Grant Zampirro (and his father Dan) to review and sign his Eagle Scout Project proposal. Assisted with and supervised Grant Zampirro's Eagle Service Project. Seven hazards were fenced by his crew of ten in Washoe County north of Wadsworth. (1 presentation – 10 scouts and volunteers)
22. Attended a RAMS conference call with Alan to discuss status of monies available, projects proposed, and plans to visit congressional offices in DC to promote the RAMS program and request monies for FY10.
23. Alan, Paul and I met with Barbara Mackey and Doug Southerland to review their proposals for additional outreach opportunities at the Fourth Ward School.
24. Provided two Rocks/Minerals/AML presentations to 32 children and 8 adults at Bernice Mathews Elementary School, Reno. (2 presentations – 40 people)
25. Assisted staff with presentations to four classes of 3rd graders at Ester Bennett Elementary School, Sun Valley. Topics included: rocks and minerals, and their uses, AML and bird seed mining. (16 presentations - 68 students and 4 teachers).
26. Pyrite samples were collected west of Yerington for distribution at the upcoming Teachers Workshop.
27. Requests have been made for "Paste With a Taste" activities to be taught at Ester Bennett ES, Sun Valley. If classes can be combined we may be able to accommodate their request for the approximately 70 third-graders.

AML / GIS (PAUL)

1. Helped Mike get the Geotemp contractors ready to go to the Tonopah/ Beatty areas for their ten days of field work. Provided them with maps, forms, and other supplies used to log hazards in the field. Mike, Ken Wilson, Pete Herrera, and I went to Home Depot and restocked our t-post supply. Ken and Pete loaded what they could use in the field into their vehicles and Mike and I loaded the rest into a NDOM truck and hauled them to the NDOM storage unit.
2. Updated hazard ID sheets in the hazard ID binders. Worked on the AML database and the AML photo database. Worked on spreadsheet of hazards in our database found on BLM land, in Esmeralda County, that could offer possible bat habitat.
3. Alan requested a list of hazards for Chris Ross with the BLM. Created a list, using ArcGIS, of hazards in Nye county on BLM land, that could provide possible bat habitat. Exported the data to a spread sheet and e-mailed the spread sheet to Chris Ross.
4. Used ArcGIS to clip the AML database and construct a shape file showing the hazards we have logged in the Nevada side of Death Valley National Park. Sent the shape files to Linda Manning and Stacy Holt with the NPS.

5. Totaled up the work done out in the field by the Geotemp contractors from 3-3-09 through 3-12-09 in Nye and Esmeralda counties. They logged 68 hazards, secured 6 hazards, revisited 1 hazard, and logged 225 non-hazards.
6. Helped get the contractors ready and stocked with supplies to head out into the field to work in the Goldfield Nevada area.
7. Called Bill Durbin in the Las Vegas NDOM office and asked him about 5 Clark County hazards within the Lake Mead Recreation Area boundaries. The National Park Service has acquired some of the patented claims within the park.
8. Getting equipment ready for underground safety training class on March 24. Attended an underground safety training course at the BLM office in Reno.
9. Collected paperwork and maps from the Geotemp contractors when they came in from the field. The contractors logged 26 hazards, secured 12 hazards, logged 87 non-hazards, and did ownership research in 63 hazards located in Esmeralda and Nye counties.
10. Mike Visher and I revisited a cluster of hazards just off of highway 50 near Moundhouse.
11. Called Eagle Scout Evan Pearson about setting up a day to go out into the field and do the recon work to start his AML fencing Eagle Scout project. No one answered the phone at Evan's home so I left a message. Contacted Ron Swenson concerning the plans for a recon trip for an Eagle Scout project east of Yerington. Traveled to Yerington with Ron Swenson and Evan Pearson to do the recon work for Evan's Eagle Scout project. We looked at 6 adits and 2 shafts and figured out the materials list to secure them.
12. Mike Visher and I went into the field east of Yerington to research potential Eagle Scout projects. While finding the hazards for the scout projects we logged 2 new hazards.
13. Used ArcGIS to construct field maps for an Eagle Scout project north of Winnemucca.
14. Mike Visher, Alan Coyner, Linda Wells, and I traveled to Ester Bennett Elementary north of Reno in Sun Valley. We did 16 presentations on rocks, minerals, mining, and stay out stay alive to 4 third grade classes.
15. Bagged up samples of diatomite for the Southern Nevada Teachers Workshop.
16. Contacted Barbara Mackay to visit about available dates to set up an underground tour for her at Turquoise Ridge Joint Venture mine.

AML / PUBLIC AWARENESS - SOUTH (BILL)

1. Met with Anthony Viers and Nelson Stone of Kimley-Horn and Associates to discuss AML issues associated with trail studies that are on-going in the Searchlight area of Clark County. Kimley-Horn is responsible for development of feasibility and environmental studies for proposed trail projects in the Searchlight area funded by SNPLMA.
2. Updated patented claim ownership research in the Goodsprings/Yellow Pine Mine area and provided the information to the Clark County trails planning staff and Shapins-Belt and Collins, the engineering firm developing the feasibility study for the Yellow Pine Rail Trail project. Ownership changes were forwarded to Linda.
3. Continued AML claim research for Clark and White Pine County sites recently investigated/ranked and reviewed/updated ownership research on previously logged sites. Completed updates on hazard inventory sheets for White Pine County AML research done in January, and sent maps for approximately 250 hazards to Linda.
4. Prepared a spreadsheet for 39 AML hazards in the Cuprite Mining District of Esmeralda County proposed for permanent closure under anticipated 2009 BLM stimulus funding.
5. Geotemps employee Pete Herrera worked on Clark County AML research. A spreadsheet for Clark County BLM AML sites is being prepared for permanent closure work funded by proposed federal "Stimulus Package" moneys.

6. A spreadsheet for White Pine County BLM AML sites is being developed for the SNPLMA Round 8 closure program. Participated in the monthly SNPLMA conference calls for information and progress reports on AML closure programs in Clark (Round 5), Lincoln (Round 7) and White Pine (Round 8) Counties.
7. One AML hazard Investigated and ranked and one non-hazard logged in Clark County.
8. Four Crescent Peak area hazards were re-visited and found intact (built by DOM, 2001).
9. Attended MSHA underground mine safety refresher training course in Reno.
10. Updated hazard ID sheets for Clark County hazards permanently closed by Bureau of Reclamation staff – SNPLMA Round 5.
11. Eagle Scout candidate Jacob Allum completed his AML securing project – six hazards were secured 5 miles east of Searchlight, Clark County. This is the 98th completed Scout project – 501 hazards have been secured and 61 hazards have been re-secured to-date.
12. Made an AML presentation to the Las Vegas chapter of the Gold Prospectors Association of America (GPAA) – total of 35 attendees.
13. Prepared a Clark County Eagle Scout project package for Scout #121, Taylor Jenkins.
14. Completed Brad Iverson’s Eagle Scout AML service project. Three mines were fenced in the Crescent Peak area west of Searchlight and a new identification sign was posted on a DOM fence built in 2001(old sign contained our old phone number).
15. Attended a training meeting for the adult volunteer tour guides at the McCaw School of Mines and assisted in setting up materials and displays.
16. Attended the “Grand Re-Opening” of the McCaw School of Mines. 35 4th graders from St. Viator Catholic School were the first visitors for the 2009 school year. Fox 5 and Channel 8 TV stations, the Las Vegas Sun, the Henderson View and Henderson Home News sent reporters. Did interviews with all the media.
17. Collected limestone and barite from the Goodsprings area for teacher workshop rock and mineral kits. Worked on road logs and maps for workshop tours, preparing mineral and rock kit description keys and other miscellaneous workshop details. Las Vegas office staff working on road logs and maps for the April 6-8 Southern Nevada teacher workshop tours; preparing mineral and rock kit description keys and other miscellaneous workshop details. Prepped mineral and rock samples for the Las Vegas teacher workshop kits. A “dry run” of the 2009 Las Vegas Teacher Workshop Post-Workshop tour was run with D.D La Pointe, Rachel Dolbier, and Dr. Tom Anderson. The tour includes stops at Simplot Silica, the Lost City Museum in Overton, and a geologic tour of Lake Mead National Recreation Area, including Las Vegas River channel erosion and a hiking tour of the Hoover Dam railroad tunnels. Received fee waiver and authorization for Red Rock National Conservation Area tour for Las Vegas teacher workshop. Completed rock and mineral sample preparation for Las Vegas teacher workshop kits. Work on-going for grade level 4-5 activity sessions and handouts for the Las Vegas teacher workshop.
18. Presented minerals and commodities, fluorescent minerals, “Cookie Mining” and AML for Pre-K and K classes at Omar Haikal Islamic Academy – Las Vegas (one presentation - 30 students).
19. Presented 3 sessions of minerals and commodities and AML for 150 3rd graders at James McMillan Elementary School – Las Vegas (3 presentations – 150 people).
20. Attended Pat Diskin Elementary School’s (Las Vegas) annual Career Day event. Display set up focused on Nevada minerals and commodities and “what a geologist does” - AML handouts passed out to 144-K through 4th graders (one presentation – 144 people).
21. New furniture delivered to Las Vegas office – work station and desk unit for Debbie, office chairs and utility table.

GEOHERMAL (LOWELL)

1. Reviewed Vulcan Power Salt Wells 84-16 well permit application. The production hole is proposed to be drilled to 10,000 feet on a Federal lease.
2. Reviewed Vulcan Power Patua 44-21 well permit application. The production hole is proposed to be drilled to 10,000 feet on a private lease.
3. Reviewed sundry notices from Enel North America for testing well pumps and charging up piping system at Salt Wells. Alan approved.
4. Reviewed a pump repair sundry for a Stillwater well from Enel North America. Alan approved.
5. Reviewed Ormat Nevada's McGuinness Hills Project Area permit application and draft of public notice.
6. Reviewed Ormat Nevada's sundry notice for an acid stimulation of the Desert Peak 21-1 production well. Coordinated conditions of approval with Russ Land, NDEP.
7. Wells drilling: Vulcan Power Carson Lake Basin 51A-20 (3,794'); Vulcan Power Salt Wells 35A-11 (4,276'); Vulcan Power Patua 23A-17 (3,149'; core drilling cement plug at 3,076'); Vulcan Power Patua 33-17 (rigging up, nearing spud); Nevada Geothermal Power BM 15-14 (4,455'); Nevada Geothermal Power BM 17-14 (5,850', original hole; currently drilling sidetrack hole at 3,560'); Ormat Nevada Desert Peak 11-27 (946', TD; will rig down and move rig to Jersey Valley 77-28.).
8. Reviewed Ormat Nevada acid stimulation sundry notice for Desert Peak 21-1 with Alan. Issued COA's on discharge of fluid as suggested by Russ Land at UIC, including 320 maximum psi, fence sump, record pH, and record if scale is returned to sump through discharge. Alan approved.
9. Reviewed Ormat Nevada sundry notice to change the Jersey Valley 77-28 well permit status from industrial production to observation, along with associated well engineering changes. Alan approved.
10. Reviewed Vulcan Power Patua 44-21 well permit application with Alan. The production hole is proposed to be drilled to 10,000 feet on a private lease. Alan approved.
11. Informed Paul Schoen, Geo Enterprises, NDOM does not permit closed loop/heat pump drill holes. Mr. Schoen was attempting to permit a drill hole on Creech AFB, associated with Nellis AFB. I also informed Mr. Schoen that permitting was not necessary when drilling on military land/reservation.
12. Reviewed sundry notice from Enel North America for testing all five injection wells at Salt Wells. Tests are for temperature, pressure, and spinner surveys. Alan approved.
13. Reviewed a pump repair sundry for the Stillwater 45-30 well from Enel North America. Alan approved.
14. Informed by Enel North America, Darren Daters and John Allen, of a surface breach by geothermal fluid near an injection well during injection test.
15. Reviewed Vulcan Power sundry notice for a change in weight of 13.375" surface casing from 64 pounds to 54.5 pounds for the 51A-20 production well at Salt Wells. Sundry notice was given due to clerical error in original well permit application. Vulcan's 64 pound/foot 13.375" surface casing inventory had been depleted and replaced with a previously used 54.5 pound/foot casing. The 54.5 pound/foot casing had originally been used on several previous wells until it was not available from the manufacturer(s), where it was replaced with 64 pound/foot casing that was available.
16. Reviewed Nevada Geothermal Power's well inventory for the number of injection and production wells permitted for the Blue Mountain Project Area. Informed NGP one of their injection wells would have to be dropped from the permitted list due to the 45-14

production well being changed to an injection well, or they would need to revise their Project Area permit for Blue Mountain.

17. Wells drilling: Vulcan Power Carson Lake Basin 51A-20 (5,028'); Vulcan Power Salt Wells 35A-11 (5,086'); Vulcan Power Patua 23A-17 (3,625'); Vulcan Power Patua 33-17 (1,041'); Nevada Geothermal Power BM 15-14 (4,800', at TD, rigging down); Nevada Geothermal Power BM 17-14 Sidetrack 1 (3,950', at TD, pulling whipstock); Ormat Nevada Jersey Valley 77-28 (rigging up).
18. Reviewed John Menghini's approvals for six observation wells in Gabbs Valley (Ormat Nevada) and Salt Wells 84-16 well permit (Vulcan Power Company).
19. Continued communication with Russ Land, UIC, pertaining to the Terra-Gen sundry notice for injection test at Beowawe Batz #1.
20. Reviewed Nevada Geothermal Power sundry notice to re-enter the 57-15 injection well and drill to 6500'. Alan approved.
21. Informed Scott Campbell, WDC Drilling, and David Carlson, geological consultant for Peppermill Casinos, that a BOP would be required to drill a commercial well to 3,000 feet at the Peppermill location in Reno. Informed them a minimum of a 2M annular BOP would be required for approval.
22. Reviewed Vulcan Power sundry notice to deepen the 23A-17 observation well, core hole, from 7,000 to 8,000 feet.
23. Reviewed Enel North America sundry notice for an injection test in their Salt Wells IW-2 (76-36) injection well. Alan approved.
24. Reviewed Enel North America sundry notice to replace a submersible pump in their Salt Wells PW-2 (14-36) production well. Alan approved.
25. Provided Teresa Conner an example of a surety bond form, indicating what information goes in each field on the form. HSS II LLC will be initiating a \$50,000 statewide surety bond in the near future.
26. Reviewed Enel North America incident report for the surface discharge at Salt Wells, created during injection tests.
27. Wells drilling: Vulcan Power Carson Lake Basin 51A-20 (6,182'); Vulcan Power Salt Wells 35A-11 (6,958'); Vulcan Power Patua 23A-17 (4,617'); Vulcan Power Patua 33-17 (2,385'); Nevada Geothermal Power BM 15-14 (4,800', TD); Nevada Geothermal Power BM 17-14 (5,850', original hole; drilled sidetrack hole to 3,950', TD); Nevada Geothermal Power BM 57-15 (re-entry to deepen, original TD 4,097', drilling at 4,455'); Nevada Geothermal Power BM 61-22 (rigging up); Ormat Nevada Jersey Valley 77-28 (403').
28. Reviewed Beowawe Power LLC (Terra-Gen) sundry notice for the Batz #1 injection test with Alan. The test is requested in order for Beowawe Power to determine if there is a connection between Batz #1 and the production portion of the reservoir. Alan approved.
29. Reviewed six Ormat Nevada observation well permit applications for Gabbs Valley with Alan. All observation wells are proposed to a 4,000' total depth. Alan approved.
30. Reviewed Vulcan Power Company well permit application for Salt Wells 84-16 with Alan. Proposed total depth for this production hole is 10,000'. Alan approved.
31. Reviewed Vulcan Power sundry notice to deepen the Patua 23A-17 observation well from 7,000 to 8,000 feet with Alan. Alan approved.
32. Reviewed Enel North America sundry notice to discharge a portion (30 to 40%) of their production at Salt Wells during the generation plant's two week power test. Alan approved.

33. Reviewed Enel North America sundry notice to repair a submersible pump power cable in their Stillwater 62A-30 production well with Alan. Alan approved.
34. Reviewed Enel North America sundry notice to pull submersible pump from the Stillwater 21A-6 production well. The pump will either be repaired or replaced. Alan approved.
35. Reviewed Ormat Nevada proposed stimulation options for the Desert Peak 27-15 production well. Review is being coordinated with Russ Land, UIC, and John Menghini, BLM.
36. Wells drilling: Vulcan Power Carson Lake Basin 51A-20 (7,644'); Vulcan Power Salt Wells 35A-11 (9,170'); Vulcan Power Patua 23A-17 (5,067'); Vulcan Power Patua 33-17 (3,936'); Nevada Geothermal Power BM 57-15 (re-entry to deepen, original TD 4,097', drilling at 6,115'); Nevada Geothermal Power BM 61-22 (1,134'); Ormat Nevada Jersey Valley 77-28 (569').

OIL AND GAS (LOWELL)

1. Wells: Makoil Trap Spring 27-41 (4,294', TD, waiting for completion rig).
2. Wells: Makoil Trap Spring 27-41 (4,294'; re-enter hole, preparing to drill deeper, possibly to 5,000' permitted depth).
3. Wells: Makoil Trap Spring 27-41 (4,294', TD). Reviewed Makoil sundry notice to re-enter and drill with air to the permitted 5,000' total depth.
4. Wells: Makoil Trap Spring 27-41 (4,294', TD, last report received was on March 20, where Makoil was to re-enter the well and drill to their approved 5,000' total depth).
5. Reviewed John Menghini's approvals for Rock Investment Group Isaiah 45.3 Well 1-16 well permit.
6. Referred Peter Lersey, Rock Investment Group, to Ryan Clark, State Engineer's Office, for the permitting of a water well in Elko County. The water will be used at their Isaiah 45.3 Well 1-16 drilling location.
7. Reviewed John Menghini's approval for HBF Exploration Charity #1 and Charity #2 well permits. NDOM is waiting for the receipt of HBF Exploration's Organization Report before permitting these two wells. Several requests for the Organization Report have been made.
8. Requested Organization Report from HBF Exploration in order to finish permitting the Charity #1 and Charity#2 well permit application. The proposed well sites are in Nye County.
9. Reviewed Charter Oak Production Company sundry notice to re-enter the Ruby Valley Federal #1-11 and test two zones for oil. Tests are expected to take place during the week of March 29th through April 4th. Alan approved.

OTHER (LOWELL)

1. Attended the monthly Nevada Petroleum Society meeting on March 5th. Robert Loux, former Executive Director, State of Nevada Agency for Nuclear Projects/Nuclear Waste Project Office, spoke at the meeting. He discussed the key issues facing the proposed Yucca Mountain nuclear waste disposal site, primarily environmental problems and budgetary funding. He stated Yucca Mountain will not go forward as a nuclear waste disposal site, primarily due to Harry Reid essentially stripping the project of adequate funding. Robert also pointed out that due to the high volume of corrosive waters that flow through Yucca Mountain, the facility would turn into an environmental nightmare in time.

2. Attended the BLM oil and gas lease sale on March 10th. Twenty five of four hundred ninety two parcels were sold, 43,798.27 acres, for a total of \$175,068.50. The lowest bid was \$2.00/acre and the highest bid was \$6.50/acre. The highest bid for a parcel was \$12,493.00.
3. Attended March 10th meeting with Will Travers and Michael Raizer of Noresco, Alan Coyner, Russ Land, UIC, and Bill Ehni, concerning future endeavors of the geothermal project at the Lovelock Correctional Center. Noresco is determining if the 159° F water found in the first temperature gradient hole is sufficient to utilize in heat pumps. Discussed possible future drilling at the Center, dependent on feasibility study.
4. Attended meeting between the BLM and geothermal operators in Winnemucca on March 11th. The geothermal operators presented 'general' problems they have with the BLM. Most of the problems were time issues associated with EA and EIS permitting, and how the permitting process is not uniform between the Nevada BLM District/Field offices. Alan and I met with Kim Niggemann, Nevada Geothermal Power, at NGP's Blue Mountain Project area. Kim gave us a tour of the property and the new Faulkner 1 water cooled binary plant (49.5 MW) being constructed. Kim talked about the possibility of NGP going into a 'Phase Two', where a second generating plant, possibly flash, may be built.
5. Met with Enel North America staff at the new Salt Wells generation facility to discuss the recent surface discharge created while performing injection tests on their IW-5 injection well. It appears that a natural fracture extends from the geothermal reservoir to the surface, just below the blow sand. Enel will undertake future injection tests in their five injection wells to determine if the IW-5 injection well can be utilized during normal plant operations. Darren Daters informed the BLM, NDEP (UIC), and NDOM there would be a need to discharge a portion of the water onto the playa in order to perform the plant's two week startup test, where approximately 30-40% of the water produced would be discharged to the playa area.
6. Met with Neil Peterson, geologist for Vulcan Power, at Salt Wells while Welsco was rigging up for a flow test at the 47A-11 location. Discussed the success of the flow tests to date with Neil, where he gave favorable responses pertaining to the widespread, yet low temperature, resource at Salt Wells. Neil mentioned he believed Patua would turn out to be the best of Vulcan Power's resources within the greater Fallon area, where temperatures over 400° F have been observed.
7. Alan, Linda, and I attended Geothermal Day at the State Legislature on March 26th. This event was sponsored by the Nevada Geothermal Council and was well attended. Approximately a dozen Legislators came to the event and spoke with the various geothermal companies in attendance. Many Legislators who could not attend the event sent their aides in their place. The Division of Minerals set up a table top display, distributing a variety of information related to the geothermal industry. George was a great help in setting up and dismantling the displays for NDOM and for the Great Basin Center for Geothermal Energy.