



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

January 2010

ADMINISTRATION (ALAN)

1. Participated in a conference call of the IOGCC Steering Committee.
2. Commented to the BLM concerning potential land withdrawal impacts from the Crescent Dunes Solar Project near the San Antonio Mining District.
3. Conducted an interview with Rob Sabo of Northern Nevada Business Weekly concerning the continued strength of the mining industry.
4. Responded to BLM concerning segregating/subdividing association placer claims.
5. Facilitated contacts between NDOW and UNR concerning the construction of bat compatible closure gates at the UNR Burrus Mine near Pyramid Lake.
6. Inquired with the Attorney General's Office concerning the status of whether the State of Nevada would intervene in the DOI vs. Earthworks lawsuit over millsite claim issues.
7. Assisted Bill Pennell with a contact at the Silverpeak Clayton Valley lithium operation.
8. Made arrangements for the CMR meeting in LV on Feb. 11, 2010.
9. Met with the Mongolian Mining Delegation and presented reviews on heap leach gold mining in Nevada and summary of Nevada mining and exploration activity.
10. Reviewed, with Commissioner Bryan, the land withdrawal scope of work submitted by the UNR Mackay Geography Department.
11. Responded to an email from George Machado of Stillwater concerning issues with the Stillwater Geothermal Power Plant.
12. Approved the open file report for release by NBMG concerning the precious metal content of playas in the vicinity of the Ireland project at Columbus Salt Marsh.
13. Participated for two days in the State Environmental Commission Appeal Panel concerning the Ponderosa Diary in Armagosa Valley near Beatty.
14. Attended a meeting with BLM, NDEP, and SHPO concerning the demolition of the American Flats millsite near Virginia City.
15. Monitored developments in connection with the collapse of Ormat Geodrill Rig #3 at the McGinness Hills location.
16. Monitored the situation concerning an uncontrolled flow from a geothermal well at the Blue Mountain geothermal power plant near Winnemucca.
17. Met with Andrew Egbert to discuss the response from Homestretch Geothermal to the request by NDOM and DWR for a flow test at the Wabuska geothermal property.
18. Met with our new DAG Kristen Geddes to introduce her to the NDOM program.
19. All personnel took the mandated furlough day in January.

RECLAMATION BOND POOL (DOUG)

1. Issued a notice level bond for Orvana Resources U.S. Corp and Blue Energy Lithium Inc.
2. Processed a bond reduction for MGC Resources Inc and Paradigm Minerals USA.
3. Processed a total release of Sage Mining Co.'s bond.

4. Issued a plan of operation bond for TNT Ventures, LLC, which replaces a notice level bond they had previously.
5. Sent out late notices for some participants who had not made the premium payment due December 31st.
6. Responded to an auditor about the status of one notice level bond.

MINING, LAND AND OTHER ISSUES (DOUG)

1. Prepared a contract amendment for Geotemps for continued AML work in the amount of \$50,000. Submitted it to the Budget Office.
2. Helped a USC student on a mine project.
3. Prepared the Annual Status and Production Report mailing list for 2009 information.
4. Proofed Paul's power point about mining for the teacher's workshop.
5. Approved 11 geothermal permits and 10 sundry notices.
6. Talked with Ed Vogel of the Reno Gazette Journal about the mining tax initiative.
7. Provided the Division of Air quality with information about underground and open pit production in terms of both ounces and tons.
8. Attended presentations on heap leaching given by NDEP to a delegation of Mongolian miners and regulators.
9. Entered the Geotemps contract in CETS, the on-line contract entry and tracking system.
10. Reserved the booth space for NDOM at the Elko Expo.
11. Worked on the claim filing tally for calendar year 2008 v. 2009. Not all counties have reported yet, but it appears the claim filings will be down approximately 14%.
12. Discussed the AML program with Alan, Mike, Bill, and Paul.
13. Submitted a completed "Justification to Fill" form for the Summer Interns to Personnel.
14. Developed an "advanced" topo map test for use at the Summer Intern interviews.

AML / PUBLIC AWARENESS - NORTH (MIKE)

1. Worked with contractor Jason Henderson to conduct QA/QC on some recent ownership research and changes to database. Jason continued data entry related to the ownership research performed earlier in the month by Pete Herrera.
2. Updated master gating list with input from BLM, FS, and NDOW.
3. Amber Fortner (URS Corp.) requested and received a packet of image files pertaining to the American Flats Mill and surroundings.
4. Sent new notification letter and packet to claimant Sarah Wicker at Vancouver address, regarding unsecured hazards in Eureka County. Updated County Sheriff Ken Jones with claimant's new address information.
5. Nycole Burton (BLM-Elko) requested clarification of land status on three hazards at Contact. Re-researched sites and confirmed public land status.
6. TerraSpectra received approval, from Eco and Associates, for reinstatement of Task 3; the review of hazard and non-hazard inventory sheet automation.
7. Assisted BLM-Elko personnel with ownership research and clarifications on sites being proposed for hard closure in the Contact region.
8. Provided background information and summary data for the Burrus Mine to Katie Miller (NDOW). The mine complex is on UNR-owned land and, with permission from UNR; NDOW may be able to pay for bat gate installation at three openings of most concern.
9. Contractor Pete Herrera completed ownership research for Lander County and brought them in for review with staff. A packet of information for his next assignment, Humboldt

County, was provided to him. To date, 524 sites have been researched at an approximate cost of \$20 per site.

10. Under Bill's supervision, contractor Brian Breiter (EPS) started securing orphan hazards in Clark County on January 5th.
11. Interviewed Claudia Clegg at Geotemps for potential ownership research project covering the greater Virginia City/Silver City area. Claudia worked at the BLM-NSO for 18 years as a land law examiner and adjudicator. We're very hopeful that her experience will bear fruit performing ownership research in the Comstock. Approximately 195 sites are available for research for this area of Storey and Lyon counties. With final BOE approval of our contract amendment with Geotemps expected on February 12th, she is expected to begin work on the 13th.
12. Debbie and Linda worked on modifications in MS Access to automate part of our responsible party AML hazard notification process.
13. Received and configured new AML laptop to replace current five year-old version.
14. Sent letter to Ken Maas (USFS) requesting reimbursement of allowable expenses (\$17,408) in performance of our Assistance Agreement during FFY09.
15. Received spreadsheet, detailing hard closure on BLM-managed lands, from Chris Ross (BLM-NSO). Corresponding original hazard inventory sheets and AML database were updated with this closure information.
16. Revise and resubmit reimbursement invoice to Ken Maas (FS) for FFY09 work activities related to AML on USFS land. Met with Ken and reviewed final product. Work continues on the 2009 summary report detailing NDOM's AML program on USFS lands.
17. Work on Division's historical AML program statistics for Commission review.
18. Formally requested Joe Wehrman (Alaska-AML) to be the proxy for Nevada at next month's NAAMLPL annual business meeting in Texas. He agreed and Mike Gardner (President-NAAMLPL) accepted our request.
19. Chris Ross requested and received our current listing of known AML incidents and their NDOM numbers. Three unresolved sites are being researched by Bill.
20. Contractor Brian Breiter (EPS) submitted his first invoice for securing work in Clark County; \$5,315.50. 14 hazards were secured or repaired and five additional sites revisited in five days; he will drop off image files and spreadsheet of work accomplishments next week.
21. Contractor Jason Henderson completed his data entry work for us on Friday prior to returning to classes at UNR. While we are not completely caught up with all data entry, his four weeks of work on proved essential to assisting us with the timely closing of our "books" on AML for 2009.
22. After a day and a half of ownership review, training and research on Lyon County hazards with contractor Claudia Clegg, it was jointly decided that we needed more landman-type expertise to unravel the complex land situation in the Comstock. We will pursue such expertise in February after several year-end reports are completed.
23. Brian Breiter (EPS) dropped off data related to his securing and revisit work in Clark County earlier in the month. The packet was reviewed and forwarded to the LV office.
24. Continued work on historical AML results and program work-flow. Wanda provided calendar year AML program expenditures for use in our analysis. Bill provided historical non-hazard progress data and inventory results from the SNPLMA funded Nevada Conservation Corps project in Clark County.

25. Presented results of internal AML program statistics during conference call with Bill, Paul, Doug and Alan. Discussed and reviewed presentation plans for upcoming CMR meeting.
26. Reviewed BLM provided dataset of hard closures performed in 2009. Five previously un-inventoried hazards were backfilled. After receiving the necessary information from Nycole Burton (BLM-Elko), hazard inventory sheets were completed and the database updated to reflect this information.
27. Completed and delivered to Ken Mass (USFS) the 2009 AML Work Report. This report details all work conducted by NDOM staff and contractors on FS-managed lands during calendar year 2009. Included were summary location maps, ID sheets, photographs, and cultural resource avoidance certification forms, spreadsheet and CD containing digital files of all the above. The FS will review and forward a copy to the State Historic Preservation Office as set forth in our multi-agency assistance agreement.
28. Contractor Pete Herrera assisted with assembly of FS report and has completed ownership research for Humboldt County. Pershing County will be next.
29. Continued work on AML summary and strategy report for the upcoming CMR meeting.
30. Updated AML incident list with new information on three additional historic incidents which occurred in 1970, 1971, and 1996.
31. Worked with Linda to complete the application for the NEATS summer intern job announcement. It is expected that the announcement will go “live” on January 11th and close on February 9th. Coordinated with Leslie Rumph to schedule interviews at Mackay during the first week of February.
32. Completed Summer Intern job announcement and submitted it for review and posting on State’s NVAPPS job website. The announcement posted on January 11th and will close on February 9th. A flyer with a link to this posting was created and sent to Leslie Rumph (UNR-Mackay) for distribution to Mackay students. Intern interviews are scheduled for February 3rd and 4th at Mackay.
33. Wrote letters of recommendation for grad school for former intern Patricia Capistrant.
34. Attended NvMA Education Meeting to finalize plans and schedules for Las Vegas Teachers Workshop at the end of March.
35. Completed inventory of rocks and minerals at NDOM storage shed for use at 2010 Teachers Workshops.
36. Received request for four Rocks/Minerals/AML and “Paste With A Taste” presentations at Esther Bennett Elementary School in Sun Valley during the month of March.
37. Created duplicate CD’s and DVD’s related to Nevada mining and reclamation activity for distribution to delegates from Mongolia.
38. Assemble, edit and submit Teacher Workshop activities planned for 2010 to Beth Price for Nevada Standards assessment and their descriptions to Joe Riney (NvMA) for inclusion on Workshop webpage.
39. Received request and committed to Rocks/Minerals/AML display and presentation at annual Family Science Fair at Westergard ES, Reno.
40. George has begun the annual labor-intensive process of assembling and mailing packets containing our mining curriculum 4th and 8th grade mini-units and “Stay Out, Stay Alive” brochures to every public and private school in the state.
41. Corresponded with Leslie Rumph (UNR-Mackay) and students who have signed up for summer internship interviews next week at UNR.
42. Provided NDOM logo and graphic to Joe Riney for inclusion on flash drives to be handed out at Teachers Workshops.

AML / GIS (PAUL)

1. Worked with Geotemp contractor Jason Henderson on data entry. Answered questions Jason had about data and QAQC.
2. Received a phone call from contractor Brian Breiter concerning the securing work to be done in Clark County. Used ArcGIS to construct and print out maps requested by Brian for the securing job.
3. Left a roll of maps and a box of fence clips for Brian Breiter to pick up at the Carson City NDOM office before going down to start securing work in Clark County.
4. Updated hazard ID sheets in hazard ID binders with revisit information turned in by contractor Brian Breiter.
5. Received a request from Geotemp contractor Pete Herrera for some maps to help with ownership research being done by him in Lander County. Used ArcGIS to construct maps and emailed them to Pete.
6. Used ArcGIS to create a map of the area around Virginia City, NV for Mike Visher to show the new Geotemp contractor what hazards need to be researched in Storey County.
7. Used ArcGIS to query the NDOM database for hazards to have ownership research done in Pershing County.
8. Used ArcGIS to query the NDOM database for hazards have ownership research done in Storey County. Exported the queried data to Microsoft Excel, created a spreadsheet, and printed out the spreadsheet for the contractor to use in the field.
9. Received shape files from Marcia Rickey with EMPSi for the proposed Blackhawk to Heybourne project route and alternate routes. Used the shape files provided to clip the NDOM database for hazards and non-hazards along both the proposed route and the alternate routes for the transmission line. Sent the clipped data set to Julia Howe.
10. Updating hazard ID sheets with data collected by Brian Breiter on the revisit program.
11. Assisted Mike Visher with training Claudia Clegg to do ownership research on hazards in Storey and Lyon Counties.
12. Used ArcGIS to georeference county plat maps onto the Virginia City topo quad map and plotted on the NDOM database. Printed the map for Claudia Clegg to use in ownership research in Lyon County.
13. Used ArcGIS to query the NDOM database and ran a summarize query on the topo quad index layer to help with prioritization of topo quads in Nevada.
14. Used ArcGIS to query the database and find the potential revisit sites within a range of 25 miles of cities and towns in Nevada with a population of 1000 or more people.
15. Worked on a Topo Quad Priority map to help with prioritizing AML work to be done in Nevada.
16. Received a call from Joe Chavez with Barrick Goldstrike concerning the Annual Refresher Training Family Night in Elko. Joe would like to hand out Stay Out Stay Alive giveaways as a part of educating the Barrick employees on abandoned mine safety.
17. Assisted Mike Visher with producing the Annual Report of 2009 NDOM AML on USFS Land. Used ArcGIS to query the NDOM database and construct maps to be used in the annual report.
18. Updated the NDOM database lookup codes spreadsheet. Posted the spreadsheet on the NDOM network drive and sent out to NDOM staff via email.
19. Used ArcGIS to create a map showing the NDOM AML work done since the last CMR meeting in October of 2009. Printed the map to be inserted into the CMR packets.
20. Collected paperwork and forms of updated Humboldt County ownership research from Geotemp contractor Pete Herrera, who has completed half of the research needed.

21. Used ArcGIS to query Nevada topographic maps and summarize the Nevada topographic maps for the number of points in each topo and prioritize the topographic maps according to the number of points in each. Printed a map showing the color coded topo quads.
22. Received an email from Katie Neddenriep with Barrick Gold requesting a State of Nevada minerals map. Found two maps that might work for Katie on the Nevada Bureau of Mines and Geology web site and emailed the links to Katie.
23. Made reservations at the Red Rock Resort in Las Vegas for the Southern Nevada Educational Workshop at the end of March.
24. Worked on power point presentation for “Under the Earth” session in the Minerals Education Teachers Workshop.
25. Received an email from Julia Howe with Environmental Management and Planning Solutions, Inc concerning the Sierra Pacific’s Blackhawk to Heybourne Transmission Line Project. EMPSi is preparing the NEPA documentation for the BLM on this project. Ms Howe asked if we could provide her with any AML data along the proposed project. Called Ms Howe and requested shape files of the project to use to clip the NDOM database for the information she is interested in.
26. Did a Minerals/Stay out Stay Alive presentation at Mark Twain Elementary School in Carson City. The presentation was attended by 10 students and one teacher (one presentation – 11 people).
27. Received a request from Joe Riney with NvMA for a Major Mines map of Nevada. Sent Joe a link to a map posted on the NBMG website of Nevada Active Mines and Energy Producers.

AML / PUBLIC AWARENESS - SOUTH (BILL)

1. Preparing report to the Las Vegas BLM office of AML fencing work completed in Clark County during calendar year 2009.
2. Investigated and ranked three AML hazards in Clark County.
3. Shaft Call – Clark County. A private citizen reported an open, unfenced shaft near the Yellow Pine Mine west of Goodsprings. Site visit revealed CL-1381, a shaft backfilled by a claimant in 1991, had re-opened. The shaft was logged as 50’ deep in 1990 but the depth was to an apparent blockage. The blockage apparently gave way and the shaft is estimated at least 150’ deep. The hazard is currently an “orphan” and a new fence was constructed around the shaft by NDOM.
4. Shaft Call – Esmeralda County. NDEP-BMRR staff reported an unfenced shaft west of Mineral Ridge. The site was investigated and ranked and found to be on a patented mining claim.
5. Purchased fencing materials and assisted Brian Breiter with logistics for AML securing work in Clark County.
6. Investigated and ranked two hazards in Clark County.
7. Investigated and ranked 7 hazards and logged 8 non-hazards in Esmeralda County.
8. Conducted site visits with Chris Ross, Mel Meier and Jordan Tucker (BLM-NSO) and the USFS construction foreman in the Lida and Cuprite Hills areas. Assessment of site logistics, material and equipment needs, measurements, discussion of individual site closure methods.
9. Conducted AML claim research in Esmeralda County.
10. Completed and sent the Cultural Resource Avoidance Certification report to Susanne Rowe (Las Vegas BLM Field Office) for AML fencing work performed on BLM lands in Clark County during Calendar Year 2009.

11. Compiled field data and logged photos from the previous week's field investigations.
12. Received an e-mail via Chris Ross that the Mountain Vista mining claims covering the gypsum mines in southwest Las Vegas have been quit-claimed to Clark County. Calls have been placed to Shonna Dooman of the Las Vegas BLM office for additional information. A representative of Clark County Public Works has requested information on problems or environmental issues associated with these claims. She will be contacted next week concerning the AML issue.
13. Field reconnaissance to Goodsprings with Brian Breiter. Observed fence and barricade work – 7 securings completed. Investigated and ranked and secured two hazards. Three non-hazards logged.
14. Work in-progress on numbers and statistics; participated in staff conference call for the AML Strategic Plan. Assisted with statistics and information for the AML Strategic Plan.
15. Conducted reconnaissance visit to Cody Echler's Eagle Scout project area east of Searchlight. Three hazards will be fenced; repairs made to fences at three previously secured hazards.
16. Prepared an information packet for an Eagle Scout AML securing project for new Scout Stefano Retif (#132).
17. Received request for an Eagle Scout AML securing project from Joey Rozich (#133).
18. Met with a UNLV landscape architecture student regarding his proposal for a Capstone (senior thesis) project. The proposal includes efforts to enhance revegetation, observe and report settling and conduct trash clean-up at backfilled AML sites adjacent to the Sloan Canyon NCA south of Henderson, an area that receives heavy recreational use. A visit to a number of sites was conducted this week.
19. Attended Nevada Mining Association Education Committee meeting.
20. Finalized tours for 2010 Southern Nevada Earth Science Education Workshop to be held in Las Vegas March 30 through April 1, 2010.
21. Completed an inventory of mineral and rock material and teacher workshop supplies at the Las Vegas storage unit.
22. Collected three buckets of sulfur in the Cuprite Hills for teacher workshop mineral kits.
23. Prepped copper ore, quartz, sulfur, trona, rhyolite and sandstone for mineral and rock kits for the 2010 Las Vegas teacher workshop.

GEOHERMAL (LOWELL)

1. Traveled to McGinness Hills to check out the cause of the GeoDrill 3 rig collapse. The collapse occurred during rig up. As the substructure was being elevated to accommodate the BOP stack, the left side of the substructure collapsed due to a hydraulic seal failure. The rig fell to the left side, landing on the mud pit area. The rig has been disassembled and is laying on the pad for further inspection.
2. Reviewed Nevada Geothermal Power's sundry notice to move the Blue Mountain 71-22 location to the 73-22 proposed location, as well as a change in drilling program.
3. Reviewed remaining portion of the McGinley & Associates reports on the Homestretch Geothermal Wabuska operation.
4. Wells drilling: Ormat Nevada Jersey Valley 81A-28 production well (2,397', directionally drilling); Ormat Nevada Jersey Valley 87-28RD production well (2,881', directionally drilling new hole); Nevada Geothermal Blue Mountain 55-15 injection well (7,707', testing well); Nevada Geothermal Blue Mountain 58-11 injection well (4,279', drilling).

5. Reviewed Peppermill Casino's sundry notice to re-enter production well #7 and pull pump for inspection and possible replacement. Alan approved.
6. Reviewed Ormat Nevada's McGinness Hills 61-22 production well permit application.
7. Reviewed Tom Gallagher's, Division of Water Resources response to Homestretch Geothermal, in regards to the submitted McGinley & Associates report on the Wabuska operation. Tom set forth actions pertaining to the recovery of four observation wells, as well as upcoming tests that will be required by NDOM and the DWR.
8. Wells drilling: Ormat Nevada Jersey Valley 81A-28 production well (2,645', fishing); Ormat Nevada Jersey Valley 87-28RD production well (3,422', tripping out for cementers); Nevada Geothermal Blue Mountain 55-15 injection well (7,707', rigging down, moving to 91-15 location); Nevada Geothermal Blue Mountain 58-11 injection well (4,627', completed testing well, starting to nipple down BOP, will move rig to 15-14 location for a workover operation); Peppermill Casino Production Well #9 (486', cementing 20" casing); Sierra Geothermal 73-2 TGH (1000', rigging down for holiday break, to resume with next hole on 1/5/2010).
9. Reviewed Brady Power Partner's sundry notice to pull and replace down hole pump in the 62-28 production well. Alan approved.
10. Reviewed the Peppermill Casino proposed test program for the Production #9 well currently being drilled. Forwarded all information to Russ Land, UIC, for his input.
11. Alan and I revised Tom Gallagher's, Division of Water Resources, draft response to Homestretch Geothermal, in regards to the submitted McGinley & Associates report on the Wabuska operation. We met with Tom at NDOM's office to hammer out final revisions that would be given to Homestretch Geothermal. We have asked for a response from Homestretch Geothermal by February 5th.
12. Reviewed Ormat Nevada's McGinness Hills 61-22 production well permit application with Alan, proposed total depth of 3050 feet. Alan approved.
13. Wells drilling: Ormat Nevada Jersey Valley 81A-28 production well (2,960', running intermediate casing); Ormat Nevada Jersey Valley 87-28RD production well (2,700', kicked off cement plug at 2641', currently directionally drilling at 2700'); Nevada Geothermal Blue Mountain 91-15 injection well (624', running surface casing); Peppermill Casino Production Well #9 (2,212', wiping hole for logging and casing run.
14. Reviewed Peppermill Casino sundry to run a Schlumberger Ultrasonic log in Injection well #4, in order to establish quality of casing and cement behind casing for Russ Land at UIC. Alan approved.
15. Reviewed proposed end of well flow/injection test procedures for the Peppermill #9 production well. Discussed procedure with Russ Land at UIC. Russ concurred the proposal was sound. Alan approved.
16. Witnessed BOPE tests at Peppermill Casino production well #9. Both the annular bag and double blind BOP passed with very good values.
17. Attended meeting at Peppermill Casino with Russ Land. Russ invited me to the meeting on Wednesday the 13th, where Russ discussed the UIC approval process with Dean Parker, Jim Combs, and Bill Rickard. Russ and I toured the Peppermill geothermal resource facilities after the meeting.
18. Reviewed Ormat Nevada's Gabbs Valley 25-07 observation well permit application with Doug, proposed total depth of 4,500 feet. Doug approved.
19. Reviewed Ormat Nevada's Gabbs Valley 26-07 observation well permit application with Doug, proposed total depth of 4,500 feet. Doug approved.

20. Reviewed Ormat Nevada's Gabbs Valley 45-07 thermal gradient hole permit application with Doug, proposed total depth of 1,000 feet. Doug approved.
21. Reviewed the Sierra Geothermal Power Silver Peak 38-11 observation well with Doug, proposed total depth of 7,000 feet. Doug approved.
22. Reviewed Alares LLC sundry notice to deepen the VA Hospital Geothermal Test Well #1 in Reno from 1,600 feet to 2,200 feet. Doug approved.
23. Reviewed Magma Energy's sundry notice to perform a down hole perforation and deflagration (stimulation via ammonium perchlorate propellant) in the Soda Lake 41B-33 production well. Doug approved.
24. Wells drilling: Ormat Nevada Jersey Valley 81A-28 production well (3,180', tripping due to plugged bit jet); Ormat Nevada Jersey Valley 87-28RD production well (3,220', reaming open hole); Nevada Geothermal Blue Mountain 15-14 injection well (4,840', killing flowing well that kicked); Nevada Geothermal Blue Mountain 91-15 injection well (2,587', drilling); Peppermill Casino Production Well #9 (3,310', pulling out of hole with fish).
25. Reviewed US Geothermal sundry notice to re-enter the San Emidio 75B-16 production well for down hole pump evaluation/possible repair of pump. Sundry notice also included 48 hour production flow test after pump inspection. Coordinated flow test approval with Jeryl Gardner at NDEP. Alan approved.
26. Reviewed Magma Energy sundry notice for temperature and pressure surveys in the Soda Lake 77-29 production well. Doug approved.
27. Reviewed Magma Energy sundry notice for temperature and pressure surveys in the Soda Lake 87-29 production well. Doug approved.
28. Reviewed Vulcan Power Company's Patua 45-27 observation well permit application. Well is proposed to be drilled to 7,000 feet and will be partially cored. Doug approved.
29. Reviewed Vulcan Power Company's Patua 36-15 observation well permit application. Well is proposed to be drilled to 7,000 feet and will be partially cored. Doug approved.
30. Reviewed Sierra Geothermal Power Alum 26-19 observation well permit application. Well is proposed to be drilled to 7,000 feet. Doug approved.
31. Reviewed the Nevada Geothermal Power sundry notice to move Pumpnickel 61-9 to 68-4, with no change in drilling program. Doug approved.
32. Reviewed the Nevada Geothermal Power sundry notice to expand their Blue Mountain Project Area, Permit #605, from 19 injection wells to 35 injection wells and 15 production wells to 31 production wells. Doug approved.
33. Reviewed Nevada Geothermal Power Blue Mountain 41-27 injection well permit application. Well is proposed to be drilled to 7,000 feet. Doug approved.
34. Reviewed Nevada Geothermal Power Blue Mountain 61-27 injection well permit application. Well is proposed to be drilled to 7,000 feet. Doug approved.
35. Wells drilling: Ormat Nevada Jersey Valley 81A-28 production well (4,141', drilling); Ormat Nevada Jersey Valley 87-28RD production well (3,400', running 9.625" liner); Nevada Geothermal Blue Mountain 15-14 injection well (4,840', monitoring well – previously kicked on NGP, will clean out bridge and run 9.625" liner); Nevada Geothermal Blue Mountain 91-15 injection well (3,972', drilling); Peppermill Casino Production Well #9 (3,900' (TD), rigging up to log hole); Sierra Geothermal Power Silver Peak 38-11 observation well (730', running 5.5 " casing).
36. Reviewed Presco Energy sundry notices to re-enter the Rye Patch 51-21 and 68-21 production wells. Presco has requested re-entry in order to perform temperature, pressure, and sonic surveys of the wells. Alan approved.

37. Reviewed Enel North America's sundry notice to re-enter the Stillwater 31A-30 production well and perform a downhole propellant stimulation to increase permeability over a specific interval. Discussed use of ammonium perchlorate propellant with Russ Land at UIC. Alan approved.
38. Alan and I spoke with Andrew Egbert regarding the upcoming production tests at Wabuska. The tests will be designed to illustrate how the geothermal reservoir will be impacted if production is allowed to be increased to 5,800 gpm (8668 acre feet per year), as compared to the current production of ~2900 gpm. A second conference call was made and included Tom Gallagher, Division of Water Resources. Disposition of previous wells drilled at Wabuska was included in conversation, along with various aspects and expectations of the upcoming Wabuska production tests.
39. Reviewed Sierra Geothermal Power's Silver Peak 41-11 and 88-2 temperature gradient holes. Alan approved.
40. Reviewed Ormat Nevada's sundry notice to deepen the Jersey Valley 81A-28 to 5,500 feet. Alan approved.
41. Wells drilling: Ormat Nevada Jersey Valley 81A-28 production well (4,599', drilling); Ormat Nevada Jersey Valley 87-28RD production well (3,400', flow tests); Ormat Nevada Gabbs Valley TGH 72-24 (rigging up to drill); Nevada Geothermal Blue Mountain 15-14 injection well (4,840', fishing for 9.625" liner); Nevada Geothermal Blue Mountain 91-15 injection well (5,622', pulled out of hole to repair MWD down hole directional tool); Peppermill Casino Production Well #9 (3,900' (TD), rigging down); Sierra Geothermal Power Silver Peak 38-11 observation well (843', coring HQ core); Sierra Geothermal Power Alum 26-19 observation well (805', rigging up to run 7.0" casing).
42. Attended the Nevada Geothermal Council meeting in Reno on Thursday, January 21st. Jim Groth, from Nevada's Office of Energy, spoke to the group.
43. Travelled to Blue Mountain on January 19th and 20th for BOPE test on the 91-15 injection well, and to discuss 'kick' that occurred in the 15-14 injection well while the 9.625" liner was being run with Kim Niggemann and John Casteel.

OIL AND GAS (LOWELL)

1. Wells drilling: True Oil DY Federal 43-36 in Railroad Valley, Nye County (3,589'; drill stem tests), (3,882'; drilling), (6,179'; drilling), (6,521'; plugged and abandoned).
2. Reviewed True Oil's sundry notice to run 7 inch casing at 3590 feet. Alan approved.
3. Reviewed Cabot Oil's Lake Valley 10-29 drilling permit application. This well is proposed to be drilled in Lincoln County, T8N, R66E.
4. Reviewed Grant Canyon sundry notice to re-enter the Blackburn #10 and perforate additional intervals in the Chainman. Alan approved.
5. Reviewed True Oil's sundry request to run 7 inch casing at 3590 feet. Alan approved.
6. Reviewed True Oil's proposed P&A program for the DY Federal 43-36 well. Plan has been submitted to the BLM for their approval.
7. Wells drilling: True Oil DY Federal 43-36 in Railroad Valley, Nye County
8. Reviewed Empire Petroleum's permit application for the Cobble Cuesta 2-12 near Gabbs in Nye County. The well is proposed to be drilled to 6,000 feet and is anticipated to be spud once Federal and State drilling permits are issued.
9. Attended the Nevada Petroleum Society meeting on Thursday, January 7th.