

**Worksheet**  
**Determination of NEPA Adequacy (DNA)**  
**U.S. Department of the Interior**  
**Bureau of Land Management**

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FIELD OFFICE: Stillwater Field Office, Carson City District

NEPA NUMBER: DOI-BLM-NV-C010-2012-0028-DNA

CASEFILE PROJECT NUMBER: NVN-083929 Geothermal Lease

PROPOSED ACTION TITLE/TITLE: ORMAT Wild Rose (Dead Horse Wells) Sundry Notice:  
Flow Test Well 85-11 and Simultaneously Injection Test Wells 68-1 and 24A-6.

LOCATION/LEGAL DESCRIPTION: T11N, R32E, Section 11, 12, 1; T11N, R33E Section 6

APPLICANT: ORMAT Nevada Inc.

**A. Description of the Proposed Action and any applicable mitigation measures**

ORMAT Nevada Inc. proposes to conduct a flow test of well 85-11. Fluid produced from the test would be pumped through a temporary pipeline connecting to wells 68-1 and 24A-6 for a simultaneous injection test. A temporary pipeline would be laid along existing roads connecting well pads with the exception of approximately ¼ mile overland portion between the access road to well 85-11 and well 24-12. The proposed area was analyzed in DOI-BLM-NV-C010-2010-0006-EA. The Wild Rose (formerly known as Dead Horse Wells) geothermal exploration area is located approximately 20 miles west of Gabbs, Nevada.

**B. Land Use Plan (LUP) Conformance**

LUP Name: **Carson City Field Office Consolidated Resource Management Plan**  
Date Approved: May 9, 2001

The proposed action is consistent with the applicable land use plan because it is clearly consistent with the following land use plan decisions, objectives, terms, conditions:

**Objective 1:** Encourage development of energy and mineral resources in a timely manner to meet national, regional and local needs consistent with the objectives for other public land uses.

**Objective 2:** Oil, gas, and geothermal exploration and production upon BLM land are conducted through leases with the Bureau and are subject to terms and stipulations to comply with all applicable federal and state laws pertaining to various considerations for sanitation, water quality, wildlife, safety, and reclamation. Stipulations may be site specific and are derived from the environmental analysis process.

**C. Identify applicable National Environmental Policy Act (NEPA) documents and other related documents that cover the proposed action.**

Carson City District Office – ORMAT Nevada Inc., Environmental Assessment Gabbs Valley and Dead Horse Wells Geothermal Exploration Projects, DOI-BLM-NV-C010-2010-0006-EA

**D. NEPA Adequacy Criteria**

**1. Is the new proposed action a feature of, or essentially similar to, an alternative analyzed in the existing NEPA document(s)? Is the project within the same analysis area, or if the project location is different, are the geographic and resource conditions sufficiently similar to those analyzed in the existing NEPA document(s)? If there are differences, can you explain why they are not substantial?**

The proposed action is within the project area analyzed in the ORMAT Nevada Inc., Environmental Assessment Gabbs Valley and Dead Horse Wells Geothermal Exploration Projects, DOI-BLM-NV-C010-2010-0006-EA. The proposed area has been culturally cleared.

**2. Is the range of alternatives analyzed in the existing NEPA document(s) appropriate with respect to the new proposed action, given current environmental concerns, interests, and resource values?**

Yes, environmental concerns, interests and resource values have not changed at all since the completion of the 2010 EA. The range of alternatives in the 2010 EA is still appropriate since the environmental constraints of the geothermal exploration have not changed.

**3. Is the existing analysis valid in light of any new information or circumstances (such as, range- land health standard assessment, recent endangered species listings, updated lists of BLM-sensitive species)? Can you reasonably conclude that new information and new circumstances would not substantially change the analysis of the new proposed action?**

Yes, the anticipated impacts to the resources have not changed. The proposed action uses existing access roads and a small segment of overland travel. The proposed action will not have any adverse effect on the human health or environment.

**4. Are the direct, indirect, and cumulative effects that would result from implementation of the new proposed action similar (both quantitatively and qualitatively) to those analyzed in the existing NEPA document?**

Yes, the 2010 EA analyzed cumulative impacts on relevant resources. The cumulative impacts to public lands resulting from geothermal development would remain unchanged. The proposed action is not different from those analyzed in the 2006 exploration EA.

**5. Are the public involvement and interagency review associated with existing NEPA document(s) adequate for the current proposed action?**

Yes, the geothermal resource exploration operations were analyzed in the 2010 EA which describes the public involvement. Consultation with other agencies and interested parties was conducted for that document. The Yomba Shoshone Tribe will be notified via letter of the proposed construction of the well.

**E. Persons/Agencies/BLM Staff Consulted**

<u>Name</u>	<u>Title</u>	<u>Resource/Agency Represented</u>
Jason Wright JW 1-18-12	Stillwater Archaeologist	BLM Carson City District
John Wilson J 1-18-12	Stillwater Biologist	BLM Carson City District

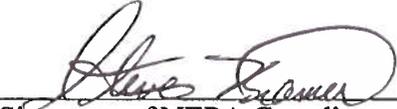
Note: Refer to the EA/EIS for a complete list of the team members participating in the preparation of the original environmental analysis or planning documents.

**Conclusion**

Based on the review documented above, I conclude that this proposal conforms to the applicable land use plan and that the NEPA documentation fully covers the proposed action and constitutes BLM's compliance with the requirements of the NEPA.



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Signature of Project Lead



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Signature of NEPA Coordinator



\_\_\_\_\_  
Signature of Responsible Official

Date 01/19/2012

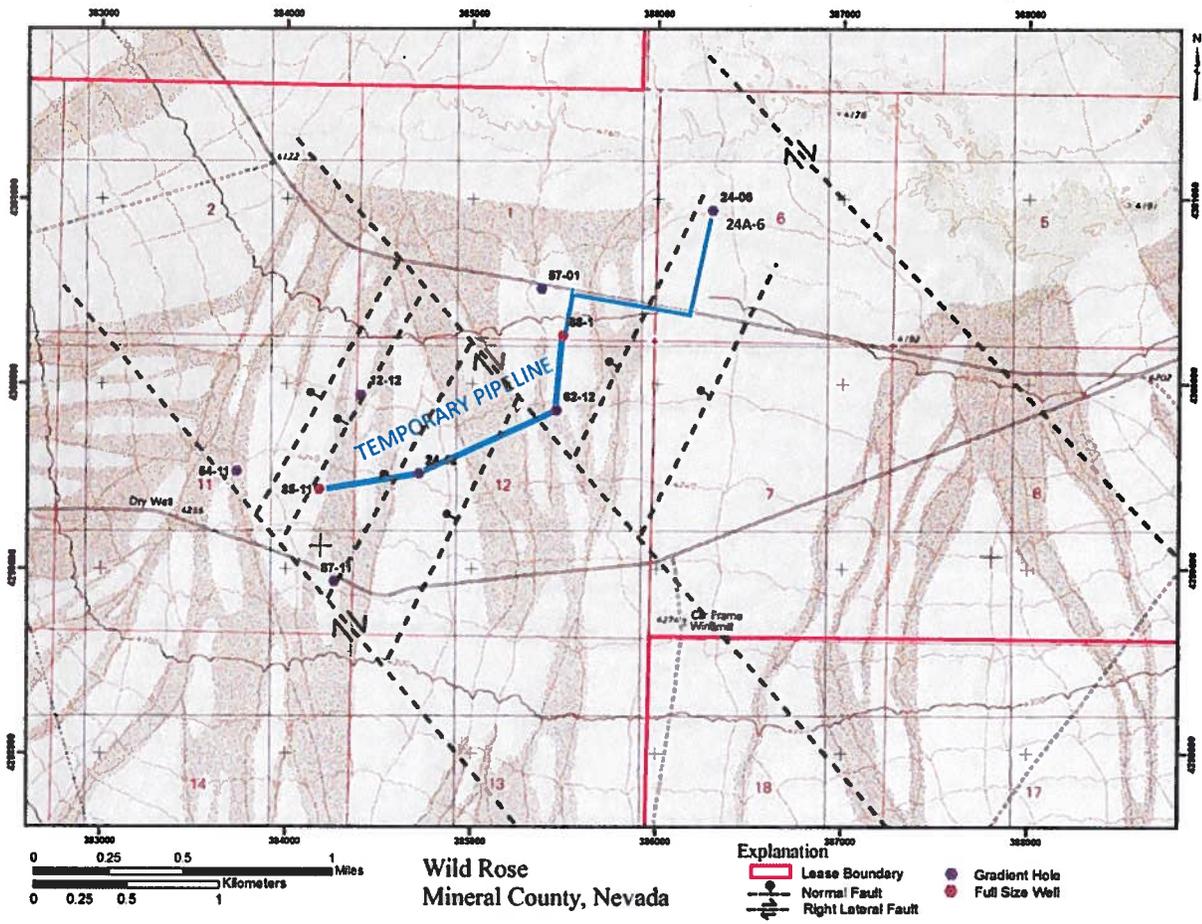
Note: The signed Conclusion on this Worksheet is part of an interim step in the BLM's internal decision process and does not constitute an appealable decision. However, the lease, permit, or other authorization based on this DNA is subject to protest or appeal under 43 CFR Part 4 and the program-specific regulations.

# WILD ROSE 29 DAY TEST PROPOSAL

Paul Spielman, Manager Operations Support, Ormat Nevada Inc.

December 20, 2011

A long flow, injection and tracer test is proposed for Wild Rose to measure reservoir properties to plan development. Well 85-11 will be pumped at approximately 2000 gpm through approximately one mile of temporary pipeline to well 68-1. Approximately 890 gpm (after flash and cooling) will be injected in 68-1 and approximately 890 gpm will be pumped through temporary pipeline to well 24A-6. This map shows the well locations and proposed temporary pipeline route. Total production in 29 days will be approximately 84 million gallons and total injection will be approximately 75 million gallons. Chemical analyses for 85-11 and 68-1 wells are attached. 24A-6 has not been drilled yet.



## 68-1 Completion

30" 110# Grade B Conductor to 65'

20" 94# K-55 Cemented Casing to 520'

13 3/8" 68# K-55 Cemented casing to 1138'

9-5/8" 40# K55 Slotted Liner 1040' to 2275', 4 blank joints on top.

12 1/4" hole to 2477'

Static fluid level approximately 130'

Depths reference KB 14' above ground level

Elevation: 4210'