

# NEPA COMPLIANCE SURVEY

#309

Project Information			
<b>Project Title:</b>	Geothermal Technologies Program	<b>Date:</b>	7/26/10
<b>DOE Code:</b>	6730.020.61041	<b>Contractor Code:</b>	8067-447
<b>Project Lead:</b>	Lyle Johnson		
<b>Project Overview</b> 1. Brief project description [include anything that could impact the environment] 2. Legal location 3. Duration of the project 4. Major equipment to be used		<p>The work to be done is the installation of a sump in Little Teapot Creek from which water for the cooling loop at the NWF can be withdrawn. The work will consist of burying a section of 8 foot diameter galvanized steel culvert in the creek to produce a sump for the suction of a pump. The culvert will be set vertically to the bed rock or to a maximum depth of 8 feet, whichever is less. The permit for withdrawal of the water has already been received</p> <p>See accompanying map.</p> <p>The facility is scheduled for intermittent operation over the next three years.</p> <p>A long-reach trackhoe will be rented for the installation</p>	

**The table below is to be completed by the Project Lead and reviewed by the Environmental Specialist and the DOE NEPA Compliance Officer. NOTE: If Change of Scope occurs, Project Lead must submit a new NEPA Compliance Survey and contact the Technical Assurance Department.**

	Impacts Anticipated?			If YES, then complete below
	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
<b>Water Quality</b>				
<b>Does the proposed project present potential for impacts on water resources or water quality?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	During the diversion of the creek, water will remain in the creek bed between the high water marks, some additional sediments will be carried by the stream for a short period of time
<b>Does the project affect surface water quantity or quality under both normal operations and accident conditions?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	see above
<b>Does the proposed project affect groundwater quantity or quality under both normal operations and accident conditions?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Will the project area include "Waters of the State?"</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	see above
<b>Will the project area require a Corps of Engineers permit?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

*Received ESS4H 11.22.10 mjt*

# NEPA COMPLIANCE SURVEY

	Impacts Anticipated?			If YES, then complete below.
	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
<b>Geology &amp; Soils</b>				
Does the proposed project present potential for impacts related to geology or soils?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does the proposed project alter, excavate or otherwise disturb land area consistent with other land use and habitat area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The maximum disturbed area is 100 sq ft
Is the proposed project likely to impact local seismicity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If the project involved disturbance of surface soils, are erosion and storm water control measures addressed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Air Quality</b>				
Does the proposed action present potential for impacts on ambient air quality under both normal and accident conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are potential emissions (gases and/or airborne particulates including dust) outside of the normal scope for oil field operations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does the project present risk to human health and the environment from exposure to radiation and hazardous chemicals in emissions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the project subject to New Source Performance Standards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the project subject to National Emissions Standards for Hazardous Air Pollutants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the project subject to emissions limitations in an Air Quality Control Region?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

# NEPA COMPLIANCE SURVEY

	Impacts Anticipated?			If YES, then complete below.
<b>Wildlife and Habitat</b>	Yes	No	NA	<b>If the anticipated impact might be unacceptable, recommend mitigation measures:</b>
Does the proposed action present potential for impacts on wildlife or habitat?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some vegetation in the stream bed will be disturbed during the installation.
Does the project impact state or federally listed threatened and endangered species?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Human Health Effects</b>	Yes	No	NA	<b>If the anticipated impact might be unacceptable, recommend mitigation measures:</b>
Does the proposed project present potential for effects on human health? e.g.: Hanta virus, radiological exposure, or chemical exposure (must provide MSDS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Transportation</b>	Yes	No	NA	<b>If the anticipated impact might be unacceptable, recommend mitigation measures:</b>
Does the proposed project involve transportation of radiological sources or hazardous materials (including explosives)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Waste Management and Waste Minimization</b>	Yes	No	NA	<b>If the anticipated impact might be unacceptable, recommend mitigation measures:</b>
Are pollution prevention and waste minimization practices needed in the proposed project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does project plan establish procedures in compliance with local, state and/or federal laws and guidelines affecting the generation, transportation, treatment, storage or disposal of hazardous and other wastes?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

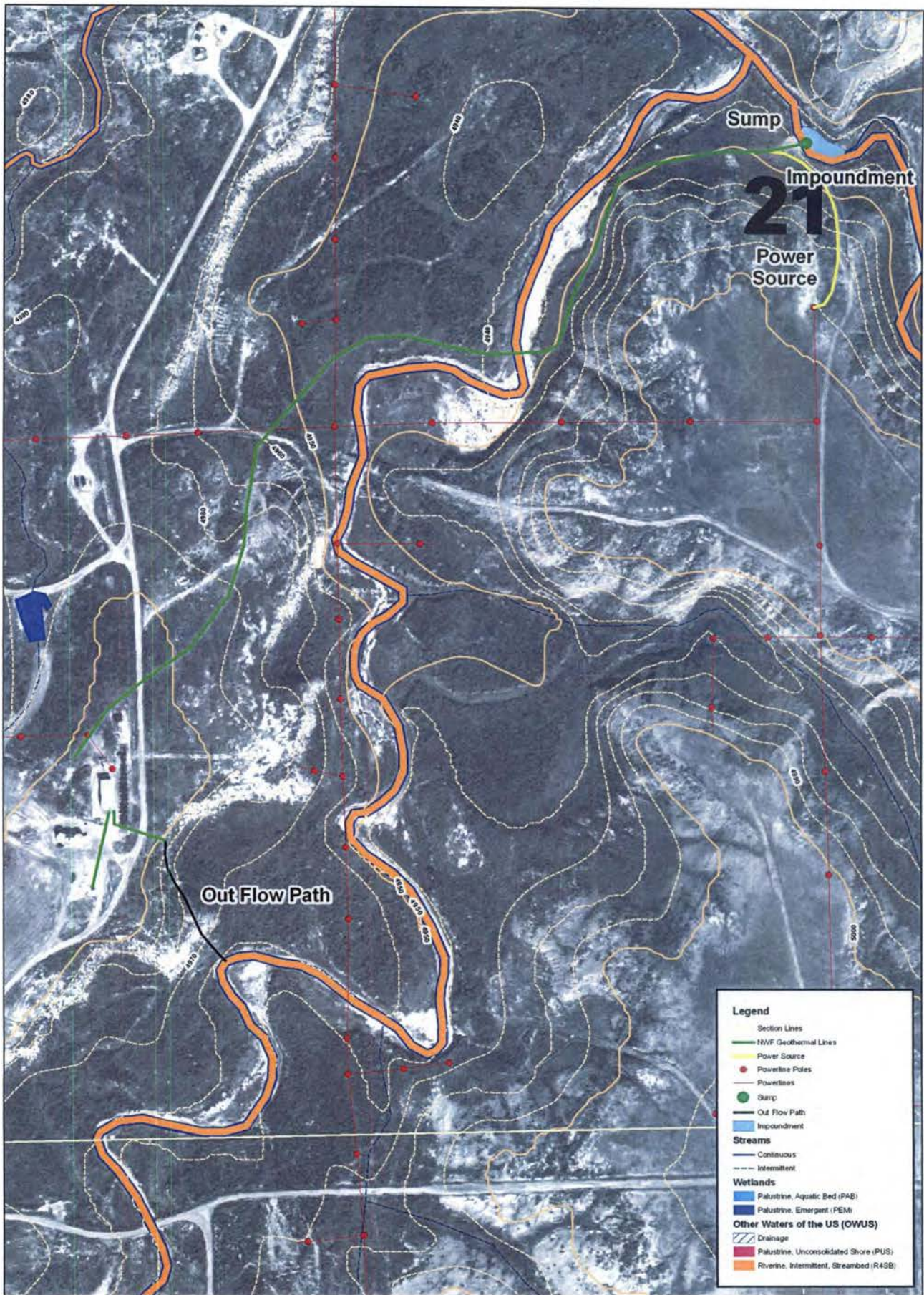


# NEPA COMPLIANCE SURVEY

			Impacts Anticipated?			If YES, then complete below.	
Cultural Impact			Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Is there potential for impact on cultural (historic) resources?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Community Impact			Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Will the proposed project introduce significantly adverse auditory, visual, or other impact?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Will the proposed project adversely affect the community's use of public land/resources?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Will the proposed project adversely affect the community's access to private land?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
NOTE: Topography Map and Wetlands Map are required to be attached. Attach applicable SOPs for Risk Assessment Level 2 & 3 and specific test procedures.							
Are <b>environmental</b> permits required? If YES, list below:						Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
USACE Nationwide Permit #12 Utility Line Activities and WY SEO Water Appropriation							
Section below to be reviewed by Environmental Specialist and DOE NCO.							
Adequate Mitigation Measures Provided?						Adequate Mitigation Measures Provided?	
	Yes	No				Yes	No
Water Quality Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Transportation Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Air Quality Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Waste Management Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
"Wildlife and Habitat Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cultural Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Geology and Soils Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Community Impact	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Human Health Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Categorical Exclusion</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>Approvals</b>							
Comments and Conditions:	B5. Categorical Exclusions Applicable to Conservation, Fossil, and Renewable Energy Activities B5.1 Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments.						
Contractor ESS&H	<i>Stephen Ames</i>					Date <i>11/16/10</i>	
Comments and Conditions:	Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1A), I have determined that the proposed action fits within the specified class of actions, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.						
DOE NEPA Compliance Officer	<i>CX B5.1 Michael J. Taylor</i>					Date <i>11/18/10</i>	



# GTP Geothermal Project



**Legend**

- Section Lines
- NWF Geothermal Lines
- Power Source
- Powerline Poles
- Powerlines
- Sump
- Out Flow Path
- Impoundment

**Streams**

- Continuous
- Intermittent

**Wetlands**

- Palustrine, Aquatic Bed (PAB)
- Palustrine, Emergent (PEM)

**Other Waters of the US (OWUS)**

- Drainage
- Palustrine, Unconsolidated Shore (PUS)
- Riverine, Intermittent, Streambed (R4SB)

	<b>GTP Geothermal Project</b>		
	Author: J Buelt	Project Manager: L Johnson	
	GIS-Prj-6730.020.61041-1	Date: 06/30/2010	Rev Date: 08/13/2010
	WY State Plane / East Central Zone / NAD27		Scale = 1:3,000

0 250 500 1,000 Feet

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