M97 REC'S 7/7/10 SIGNED 7/9/10

NEPA COMPLIANCE SURVEY

SEE OTHER NCS # 262 #266, 4 # 269

		Project Information		
Project Title:	Geothermal Tech	nologies Program Date:	July 1, 2010	
DOE Code: 6730.020.61041		Contractor Code:	8067-731	
Project Lead:	Project Lead: Lyle Johnson FOR THE M			
1. Brief project de		Install power line from existing pole on the section 21 drilling pad to the location for the pur water from the Little Teapot Creek for the geothermal project at the NWF building. The lin in and will follow an existing road. The potential exists for disturbance of cultural artifacts of excavation of virgin ground. FROM THE POWER POLE APPROVICE CENTER CREEK. Center of Section 21 T 39 N, R 78 W, see accompaning map for more detail The project is presently scheduled for 3 years Trencher	e will be trenched during the	

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.

		lmpac ticipa		If YES, then complete below
Water Quality	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project present potential for impacts on water resources or water quality?				
Does the project affect surface water quantity or quality under both normal operations and accident conditions?				
Does the proposed project affect groundwater quantity or quality under both normal operations and accident conditions?				
Will the project area include "Waters of the State?"				
Will the project area require a Corps of Engineers permit?				

BY THE OCTOBER 2008 FONSI FOR THE SITEWIDE EA.

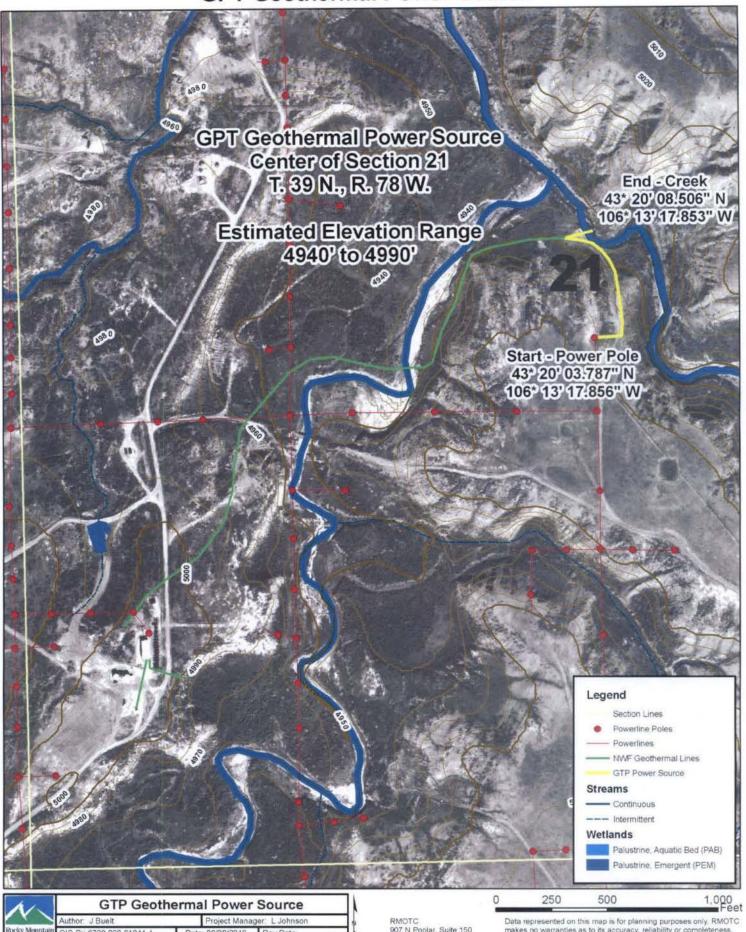
Revised on: 4/19/2010 mjt

	1000,000	mpact ticipat		If YES, then complete below.
Geology & Soils	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project present potential for impacts related to geology or soils?				The soil will be trenched for placement of the lines and then refilled and compacted so no problems should exist
Does the proposed project alter, excavate or otherwise disturb land area consistent with other land use and habitat area?				See above
Is the proposed project likely to impact local seismicity?				
If the project involved disturbance of surface soils, are erosion and storm water control measures addressed?				
Air Quality	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed action present potential for impacts on ambient air quality under both normal and accident conditions?				
Are potential emissions (gases and/or airborne particulates including dust) outside of the normal scope for oil field operations?				
Does the project present risk to human health and the environment from exposure to radiation and hazardous chemicals in emissions?		×		
Is the project subject to New Source Performance Standards?				
Is the project subject to National Emissions Standards for Hazardous Air Pollutants?				
Is the project subject to emissions limitations in an Air Quality Control Region?				

	Impacts Anticipated?		1?	If YES, then complete below.	
Wildlife and Habitat	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Does the proposed action present potential for impacts on wildlife or habitat?					
Does the project impact state or federally listed threatened and endangered species?		⊠			
Human Health Effects	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Does the proposed project present potential for effects on human health? e.g.: Hanta virus, radiological exposure, or chemical exposure (must provide MSDS)					
Transportation	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Does the proposed project involve transportation of radiological sources or hazardous materials (including explosives)?					
Waste Management and Waste Minimization	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Are pollution prevention and waste minimization practices needed in the proposed project?					
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?					

			Impacts Anticipated?			If YES, then complete below.
Cu	Cultural Impact				NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
STANDARD AND THE SECTION OF THE PROPERTY OF TH	Is there potential for impact on cultural (historic)					Archeological survey will be conducted anyway
Community Impact			Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Will the proposed proje auditory, visual, or other		significantly adve	rse 🗆	⊠		
Will the proposed proje community's use of pub				⊠		
Will the proposed proje community's access to				⊠		
NOTE: Topography N	lap and Wet	lands Map are req Level 2 & 3 a				Merchina de d
Are environmental per	mits require	d? If YES, list belo	w:			Yes No 🛛
	Section be	low to be reviewe	d by Environ	mental Sp	ecialis	st and DOE NCO.
Adequate Mitigation Me	easures Prov	rided?			Ade	equate Mitigation Measures Provided?
	Yes	No			Yes	No
Water Quality Impacts		☐ Tr	ansportation Im	pacts	\boxtimes	
Air Quality Impacts		□ W	aste Managem	ent Impacts		
'Wildlife and Habitat Impacts		□ Cu	ultural Impacts			
Geology and Soils Impacts			Community Impact			
Human Health Impacts		☐ Ca	ategorical Ex	cclusion		
			Approval	s		
Conditions: B4.12 Cons Conditions:	struction of electric flat from the factor of the factor o	tric powerlines approxi	mately 10 miles	in length or	less,	Date 7:81.10
Comments and Conditions:	ny review of	information conveys	ed to me and i	n my noss	ession (or attached) concerning the proposed action,
as NEPA (Compliance	officer (as authorized	d under DOE er regulatory r	Order 451. requirement	1A), I h	nave determined that the proposed action fits orth above are met, and the proposed action
DOE NEPA Compliance Officer	197	72		5101		7/9/10

GPT Geothermal Power Source



WY State Plane / East Central Zone / NAD27

RMOTC 907 N Poplar, Suite 150 Casper, WY 82601 307-233-4800

makes no warranties as to its accuracy, reliability or completeness. Any use of this data is strictly the responsibility of the user. This is an uncontrolled RMOTC drawing.

#266

		Project Information					
Project Title:	Geothermal Techno	ologies Program Date:	12/8/09				
DOE Code: 6730.020.61041		Contractor Code:					
Project Lead:	Lyle Johnson						
4. What major equ	nvironmental	This work will consist of the laying of two pipelines to complete the construction of a low to geothermal testing facility at the NWF building in Section 21. The first line will who a 250 f steel line from well 17 WX 21 to the building. This line will provide hot Madison water to th second line will be a 250 feet long 10 inch steel line to return the cooling water and excess Teapot Creek drainage. This line will terminate on a cement slab, a stone pile or a combin prevent erosion. There are more invariant environmental impacts expected. The 6 inch lind disturbed area. The 10 inch line is approximately 50% in a prior disturbed area, the remain area where removal of some vegetation will be required. This is a 3 year testing program	eet long, 6 inche facility. The Madison to the nation of both the is in a prior				

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		mpac ticipa		If YES, then complete below
Water Quality	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project present potential for impacts on water resources or water quality?		⊠		
Does the project affect surface water quantity or quality under both normal operations and accident conditions?				
Does the proposed project affect groundwater quantity or quality under both normal operations and accident conditions?		⊠	0	
Will the project area include "Waters of the State?"				
Will the project area require a Corps of Engineers permit?		×	0	

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			Project Information	
Troject Title.		Geothermal Techno	ologies Program Date:	12-11-09
		6730.020.61	041 Contractor Code:	
	Project Lead:			
1. 2. 3. 4.		vironmental I location? ation of the project? ipment will be used	This NEPA is for the laying of a 2,975 foot, 8" welded plastic water line from Little Teapot Intersection with Teapot Creek to the North Waterflood Facility (NWF) building. The entire within Section 21 T39N R78W (map attached) and will not impact any wet land areas but intermittent stream. The stream is presently dry. The project will include the clearing of very foot wide construction corridor along the route, digging a 5 foot deep trench, welding and line and covering and compacting the trench. This task should take approximately one m will remain in place for an undetermined period to supply cooling water to the NWF for get Equipment required for this project will be a blade to clear the right-of-way, a backhoe to trench, a plastic welding machine (to be rented) and possible a boom truck to lay the line.	e project area is will cross one getation from a 12 placing the plastic onth and the line othermal testing, lig and fill the

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		Impac ticipa		If YES, then complete below
Water Quality	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project present potential for impacts on water resources or water quality?	⊠			An intermittent stream will be crossed but this time of the year the streambed is dry and will be returned to its original condition.
Does the project affect surface water quantity or quality under both normal operations and accident conditions?		⊠		
Does the proposed project affect groundwater quantity or quality under both normal operations and accident conditions?		Ø		
Will the project area include "Waters of the State?"		⊠		
Will the project area require a Corps of Engineers permit?	⊠			Before construction into the streams, ACOE must be notified

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	Project Title: Geothermal Techno		ologies Program Date:	12-11-09
DOE Code: 6730.020.61041		6730.020.61041	Contractor Code:	
	Project Lead:	Lyle Johnson		
1. 2. 3. 4.		al location? ation of the project?	This NEPA is for the laying of a 350 foot, 8" welded plastic water line from the lower cooling. Tensleep battery to a location between the 5,000 bbl tank and the top pond at the Tensleep entire project area is within Section 10 T39N R78W (map attached) and will not impact an The project will include the clearing of sparse vegetation from a 12 foot wide construction route, digging a 5 foot deep trench, welding and placing the plastic line and covering and trench. This work is in an area that has been disturbed multiple times and has multiple by should take approximately one week and the line will remain in place for an undetermined cooling water for geothermal testing in the Tensleep battery area. Equipment required for a blade to clear the right-of-way, a backhoe to dig and fill the trench, a plastic welding may and possible a boom truck to lay the line.	ep battery. The ny wet land areas. corridor along the compacting the ried lines. This tast period to supply this project will be

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	1	mpac ticipa		If YES, then complete below
Water Quality	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project present potential for impacts on water resources or water quality?				The water drawn from the cooling pit will be used only for cooling purposes and will have no contact with the Geothermal mechanism. It will be reintroduced to the Tensleep pits for recycling and no impact to water quality
Does the project affect surface water quantity or quality under both normal operations and accident conditions?		⊠		
Does the proposed project affect groundwater quantity or quality under both normal operations and accident conditions?		⊠		
Will the project area include "Waters of the State?"		⊠		
Will the project area require a Corps of Engineers permit?		×		

Revised on: 11/12/2008