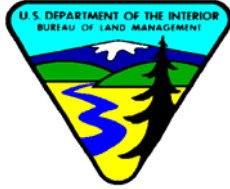




U.S. Department of the Interior
Bureau of Land Management
Wyoming State Office

Kemmerer, Pinedale, and Rock Springs Field Offices

July 2006



**ENVIRONMENTAL ASSESSMENT,
FINDING OF NO SIGNIFICANT IMPACT
and DECISION RECORD for the Jonah
Bridger to Opal Natural Gas Project,
Lincoln, Sublette, and Sweetwater
Counties, Wyoming**

MISSION STATEMENT

It is the mission of the Bureau of Land Management to sustain the health, diversity, and productivity of the public lands for the use and enjoyment of present and future generations.

BLM/WY/PL-06/019+1310

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ABBREVIATIONS/ACRONYMS

AADT	average annual daily traffic
ac	acres
ac-ft	acre feet
ac-ft/mi ² /yr	acre feet per square mile per year
ac-ft/yr	acre feet per year
ACHP	Advisory Council on Historic Preservation
ADT	average daily traffic
AML	Appropriate Management Level
AJE	annual job equivalents
analysis area	Pacific Rim Project Area
ANC	Acid Neutralizing Capacity
AO	authorized officer
APD	Application for Permit to Drill
APE	area of potential effect
AQD	Air Quality Division
AQRV	Air Quality Related Values
ARM	Ambient Ratio Method
ASTM	American Society for Testing Materials
AUM	Animal Unit Month
BA	Biological Assessment
BACT	Best Available Control Technology
BBCC	Black Butte Coal Company
bbbl	barrel = 42 gallons
BLM	Bureau of Land Management
BTEX	Benzene, toluene, ethylbenzene, xylene
BTOPA	Bridger to Opal Natural Gas Project Area
BWPD	barrel of water per day
CASTNet	Clean Air Status and Trends Network
CBM	Coal Bed Methane
CDPHE-APCD	Colorado Department of Public Health and Environment, Air Pollution Control Division
CD/WII	Continental Divide/ Wamsutter II
CEQ	Council for Environmental Quality
CFR	Code of Federal Regulations
cfs	cubic feet per second
CGF	Central gathering facility
CIA	cumulative impacts analysis
cm	centimeter
CO	carbon monoxide
COE	U.S. Army Corps of Engineers
CREG	Consensus Revenue Estimating Group
CRO	Cultural Records Office
CWA	Clean Water Act
CWYL	Crucial Winter/Yearlong
dba	decibel, A-weighted scale
DEIS	Draft EIS
DEQ	Department of Environmental Quality
dia.	Diameter
DOI	US Department of Interior
dv	deciview
EA	environmental assessment
EIS	Environmental Impact Statement
EO	Executive Order

ABBREVIATIONS/ACRONYMS

EPA	Environmental Protection Agency
ESA	Endangered Species Act of 1973
F	Fahrenheit
FAA	USDT Federal Aviation Administration
FEMA	Federal Emergency Management Act
FLAG	Federal Land Managers' Air Quality Related Values Workgroup
FLPMA	Federal Land Policy and Management Act
FR	Federal Register
Frac	Fracture Stimulation
FS	Forest Service
ft	foot (or feet)
FWS	U.S. Fish and Wildlife Service
FY	Fiscal Year
GAP	Wyoming Gap Analysis Program
g/hp-hr	grams per horsepower-hour
gpd	gallons per day
gpm	gallons per minute
GPS	Global Positioning System
GRRRA	Green River Resource Area (now RSFO Area)
GRRMP	Green River Resource Management Plan
HAP	Hazardous Air Pollutants
HDPE	High density polyethylene
HMA	herd management area
HNO ₃	nitric acid
hp	horsepower
H ₂ S	hydrogen sulfide
HUC	Hydrologic Unit Code
HWA	Hayden-Wing Associates
I-80	Interstate 80
IAA	Impact Analysis Area
ID	interdisciplinary
IDT	interdisciplinary team
IMPROVE	Interagency Monitoring of PROtected Visual Environments
in	inches
kg	kilograms
kg/ha	kilograms per hectare
km	kilometer
KMDA	Known Mineral Deposit Area
LAC	level of acceptable change
LOP	Life of Project
m	meter
MCF	thousand cubic feet
mcf/d	thousand cubic feet per day
mcf/gpd	thousand cubic feet of gas per day
mg/l	milligrams per liter
mm	millimeter
MLE	Most Likely Exposure
MMCFD	million cubic feet per day
mph	miles per hour
MSDS	Material Safety Data Sheet
MSHA	Mine Safety Hazard Administration
N ₂	Nitrogen
NA	not applicable

ABBREVIATIONS/ACRONYMS

NAAQS	National Ambient Air Quality Standards
NADP	National Atmospheric Deposition Program
n.d.	no date
NEPA	National Environmental Policy Act
NEIC	National Economic Information Center
NH ₄	Ammonia
NHPA	National Historic Preservation Act
NOAA	National Oceanic and Atmospheric Administration
NO _x	oxides of nitrogen
NO ₂	nitrogen dioxide
NO ₃ ⁻	nitrate
NOS	Notice of Staking
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NSI	no significant impacts
NSR	New Source Review
NTL	Notice to Lessee
NTU	Nephelometric Turbidity Unit
NWS	National Weather Service
NWI	National Wetlands Inventory
O ₃	ozone
OSHA	Occupational Safety and Health Administration
P&A'd	plugged and abandoned
PA	Proposed Action
PC	progressive cavity
pH	acidity measurement unit (negative logarithm of the hydrogen ion [H ⁺] concentration)
PEMC	Palustrine, emergent, seasonally flooded
PFO	Pinedale Field Office
PI	Petroleum Information, Inc.
PIC	Planning Information Corporation
PM _{2.5}	particulate matter less than 2.5 microns in effective diameter
PM ₁₀	particulate matter less than 10 microns in effective diameter
POD	Plan of Development
PSD	Prevention of Significant Deterioration
PPP	pollution prevention plan
PRPA	Pacific Rim Project Area
PRU	Pacific Rim Unit
PUBFx	Palustrine, unconsolidated bottom, semi-permanently flooded, excavated
PUP	Pesticide Use Proposal
PUSAh	Palustrine, unconsolidated shore, temporarily flooded, diked/impounded,
PUSCh	Palustrine, unconsolidated shore, seasonally flooded, diked/impounded
RCRA	Resource Conservation and Recovery Act
REL	Reference Exposure Level
RfC	Reference Concentration
RFFAs	reasonably foreseeable future actions
RFD	reasonably foreseeable development
RFO	Rawlins Field Office
RMP	Resource Management Plan
RMOGA	Rocky Mountain Oil & Gas Association
ROD	Record of Decision
ROW	Right-of-Way
RSGA	Rock Springs Grazing Association

ABBREVIATIONS/ACRONYMS

RSFO	Rock Springs Field Office
RUA	Recreation Use Area
RV	recreational vehicle
SAR	Sodium Absorption Ratio
SARA	Superfund Amendments and Reauthorization Act
scf	standard cubic feet
SCR	Sweetwater County Road
SCS	Soil Conservation Service
SCEMA	Sweetwater County Emergency Management Agency
SEO	Wyoming State Engineer's Office
SHPO	State Historic Preservation Office
SO ₂	sulfur dioxide
SPCC	Spill Prevention Control and Countermeasures
SSF	spring summer fall
SWPPP	storm water pollution prevention plan
TCF	trillion cubic feet
TDS	total dissolved solids
Thalweg	The line defining the lowest points along the length of a river bed or valley
TMDL	Total Maximum Daily Load
TPQ	threshold planning quantity
TSS	Total Suspended Solids
UAD	unquantified additional development
UGMA	upland game management area
UND	Undetermined
USDA	United States Department of Agriculture
USDI	United States Department of the Interior
US DOE EIA	US Department of Energy Energy Information Administration
USFS	US Forest Service
USGS	United States Geological Survey
UW	University of Wyoming
VOC	Volatile Organic Compounds
VRM	Visual Resource Management
WAAQS	Wyoming Ambient Air Quality Standards
Warren	Warren E & P, Inc.
WAS	Western Archaeological Services
WDAI	Wyoming Department of Administration and Information
WDE	Wyoming Department of Employment
WDEQ-AQD	Wyoming Department of Environmental Quality, Air Quality Division
WDEQ/WQD	Wyoming Department of Environmental Quality/Water Quality Division
WGFD	Wyoming Game and Fish Department
WOGCC	Wyoming Oil and Gas Conservation Commission
WOS	Wildlife Observation System
WQD	Water Quality Division
WRDS	Wyoming Water Resources Data System
WSGS	Wyoming State Geological Survey
WTA	Wyoming Taxpayers Association
WYDOT	Wyoming Department of Transportation
WYGISC	Wyoming Geographic Information Science Center
WYL	Winter/Yearlong
WYNDD	Wyoming Natural Diversity Database
WYO 430	Wyoming Highway 430
YBP	years before present
YRL	Yearlong

ABBREVIATIONS/ACRONYMS

$\mu\text{eq/l}$	microequivalents per liter
$\mu\text{g/m}^3$	micrograms per cubic meter
$^{\circ}\text{F}$	degrees Fahrenheit
Δ	difference (delta)