

DRAFT AIR QUALITY TECHNICAL SUPPORT DOCUMENT FOR THE JONAH INFILL DRILLING PROJECT ENVIRONMENTAL IMPACT STATEMENT

Prepared for

**Bureau of Land Management
Wyoming State Office**
Cheyenne, Wyoming

Pinedale Field Office
Pinedale, Wyoming

and

Jonah Infill Drilling Project Operators

Prepared by

TRC Environmental Corporation
Laramie, Wyoming

November 2004

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MAI Project 35982**

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EXECUTIVE SUMMARY

To be completed upon receipt of agency comments.

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LIST OF ACRONYMS AND ABBREVIATIONS

µeq/l	Microequivalents per liter
µg/m ³	Micrograms per cubic meter
ANC	Acid neutralizing capacity
AQD	Air Quality Division
AQRV	Air Quality Related Value
AQTSD	Air Quality Technical Support Document
ARS	Air Resource Specialists
BACT	Best available control technology
BLM	Bureau of Land Management
BP	BP America Production Company
BTEX	Benzene, toluene, ethylbenzene, and xylene
BTNF-MA	Bridger-Teton National Forest Management Area
C.F.R.	<i>Code of Federal Regulations</i>
CDPHE/APCD	Colorado Department of Public Health and Environment/Air Pollution Control Division
CD/WII	Continental Divide/Wamsutter II
CO	Carbon monoxide
COGCC	Colorado Oil and Gas Conservation Commission
DAT	Deposition analysis thresholds
DEM	Digitized elevation map
dv	Deciview
EIS	Environmental impact statement
EnCana	EnCana Oil & Gas (USA) Inc.
EPA	Environmental Protection Agency
FLAG	Federal Land Managers' Air Quality Related Values Workgroup
FLM	Federal Land Managers
f(RH)	Relative humidity factor
GRI	Gas Research Institute
HAP	Hazardous air pollutant
HNO ₃	Nitric acid
hp	Horsepower
hp-hr	Horsepower-hour
IDEQ	Idaho Division of Environment Quality

IDLH	Immediately dangerous to life or health
IOGCC	Idaho Oil and Gas Conservation Commission
IWAQM	Interagency Workgroup on Air Quality Modeling
JIDPA	Jonah Infill Drilling Project Area
kg/ha-yr	Kilograms per hectare per year
LAC	Level of Acceptable Change
LOP	Life of Project
LULC	Land use and land cover
MEI	Maximum exposed individual
MLE	Most likely exposure
MM5	Mesoscale meteorological model
N	Nitrogen
NAAQS	National Ambient Air Quality Standards
NEPA	<i>National Environmental Policy Act</i>
NH ₃	Ammonia
NIOSH	National Institute for Occupational Safety and Health
NO ₂	Nitrogen dioxide
NO ₃	Nitrate
NOI	Notice of Installation
NO _x	Nitrogen oxides
NPS	National Park Service
NSR	New Source Review
NWS	National Weather Service
O ₃	Ozone
Operators	EnCana Oil and Gas (USA) Inc., BP America Production Company, and other oil and gas companies
PAPA	Pinedale Anticline Project Area
P-BACT	Presumptive BACT
PFO	Pinedale Field Office
PM ₁₀	Particulate matter less than or equal to 10 microns in size
PM _{2.5}	Particulate matter less than or equal to 2.5 microns in size
ppb	Parts per billion
ppm	Parts per million
Project	Jonah Infill Drilling Project
Protocol	Air Quality Impact Assessment Protocol

LIST OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

PSD	Prevention of Significant Deterioration
QA/QC	Quality Assurance/Quality Control
REL	Reference exposure level
RfC	Reference Concentrations for Chronic Inhalation
RFD	Reasonably foreseeable development
RFFA	Reasonably foreseeable future action
RMP	Resource Management Plan
ROD	Record of Decision
RT	Round trip
S	Sulfur
SO ₂	Sulfur dioxide
SO ₄	Sulfate
SWWYTAF	Southwest Wyoming Technical Air Forum
tpy	Tons per year
TRC	TRC Environmental Corporation
TSP	Total suspended particulates
UDEQ-AQD	Utah Department of Environmental Quality-Air Quality Division
UDNR-DOGM	Utah Department of Natural Resources-Division of Oil, Gas, and Mining
URF	Unit risk factor
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
VOC	Volatile organic compound
VMT	Vehicle miles traveled
WAAQS	Wyoming Ambient Air Quality Standards
WAQSR	Wyoming Air Quality Standards and Regulations
WDEQ	Wyoming Department of Environmental Quality
WDR	Well development rate
WOGCC	Wyoming Oil and Gas Conservation Commission
WRAP	Western Regional Air Partnership
WYDOT	Wyoming Department of Transportation

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