District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

Alternative Method:  Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
Liner type: Thicknessmil
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Tank Construction material:
Volume:bbl Type of fluid:
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Liner Seams: Welded Factory Other
Lines Commun
□ Drying Pad □ Above Ground Steel Tanks □ Haul-off Bins □ Other □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Closed-loop System: Subsection H of 19.15.17.11 NMAC
3,
Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume: 22,000 bbl Dimensions: L 120 x W 95 x D 10
String-Reinforced
☐ Lined ☐ Unlined Liner type: Thickness 20 mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Permanent Emergency Cavitation P&A
Temporary: Drilling Workover
2.  ☑ Pit: Subsection F or G of 19.15.17.11 NMAC
Surface Owner:  Federal  State  Private Tribal Trust or Indian Allotment
Center of Proposed Design: Latitude <u>36.74144 N</u> Longitude <u>107.21786 W</u> NAD: □1927 ⊠ 1983
U/L or Qtr/Qtr <u>Unit H SE/NE</u> Section <u>11</u> Township <u>29 N</u> Range <u>4 W</u> County: <u>Rio Arriba</u>
API Number: <u>30-039-20649</u> OCD Permit Number:
Facility or well name: Carson 29-04-11 #2H
Address: 3200 N 1st Street PO Box 249, Bloomfield, NM 87413
Operator: Black Hills Gas Resources OGRID #: 013925
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request  Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the
below-grade tank, or proposed alternative method
Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system,
<ul> <li>Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method</li> <li>Modification to an existing permit</li> </ul>
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify: Hog wire with one strand of barbed wire on the top	
7.	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	w
8. Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
Signed in compliance with 19.15.3.103 NMAC	
M Signed in compitance with 17/13/3/103 (WM)	
9. Administrative Approvals and Exceptions:	
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of the Santa Fe En	office for
consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
io. Siting Criteria (regarding permitting): 19.15.17.10 NMAC	
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accep	table source
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro	
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi	
above-grade tanks associated with a closed-loop system.	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa	☐ Yes 🛛 No
lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	⋈ NA
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☑ No ☐ NA
<ul> <li>(Applies to permanent pits)</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	_
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes 🛛 No
watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☑ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☑ No
Within an unstable area.	☐ Yes ☑ No
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	
Within a 100-year floodplain FEMA map	☐ Yes 🛭 No

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC  Previously Approved Design (attach copy of design) API Number:  or Permit Number:
12.
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9  Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design)  API Number:
Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Culier Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.
Type:  Drilling  Workover  Emergency  Cavitation  P&A Permanent Pit  Below-grade Tank  Closed-loop System   Alternative  Proposed Closure Method:  Waste Excavation and Removal   Waste Removal (Closed-loop systems only)   On-site Closure Method (Only for temporary pits and closed-loop systems)   In-place Burial  On-site Trench Burial   Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground S Instructions: Please indentify the facility or facilities for the disposal of liquids, d		
facilities are required.  Disposal Facility Name:	Disposal Facility Permit Number:	
-	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occ  ☐ Yes (If yes, please provide the information below) ☐ No		
Required for impacted areas which will not be used for future service and operation  Soil Backfill and Cover Design Specifications based upon the appropriate  Re-vegetation Plan - based upon the appropriate requirements of Subsection  Site Reclamation Plan - based upon the appropriate requirements of Subsection	requirements of Subsection H of 19.15.17.13 NMA( of 19.15.17.13 NMAC	C
17. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the comprovided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	e administrative approval from the appropriate dist Bureau office for consideration of approval. Justi	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	☐ Yes ☒ No ☐ NA
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data	obtained from nearby wells	⊠ Yes □ No □ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signalake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	ificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☒ No
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellite		☐ Yes ☒ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less watering purposes, or within 1000 horizontal feet of any other fresh water well or sp. NM Office of the State Engineer - iWATERS database; Visual inspection (o	oring, in existence at the time of initial application.	☐ Yes ☒ No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approve	-	Yes No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visua	l inspection (certification) of the proposed site	☐ Yes ☑ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining	and Mineral Division	☐ Yes 🏻 No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology Society; Topographic map	& Mineral Resources; USGS; NM Geological	☐ Yes ☑ No
Within a 100-year floodplain FEMA map		☐ Yes ☑ No
18.  On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Protocols and Procedures - based upon the appropriate requirements of 19.15  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15  Confirmation Sampling Plan - based upon the appropriate requirements of Sipposal Facility Name and Permit Number (for liquids, drilling fluids and driving Soil Cover Design - based upon the appropriate requirements of Subsection Film Re-vegetation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements of Subsection Film Site Reclamation Plan - based upon the appropriate requirements o	cirements of 19.15.17.10 NMAC Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC ad) - based upon the appropriate requirements of 19. 17.13 NMAC cirements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC rill cuttings or in case on-site closure standards cann I of 19.15.17.13 NMAC T of 19.15.17.13 NMAC	15.17.11 NMAC

Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Lynn H. Benally Title: Regulatory Specialist
Signature: Date: Any 6, 2008
e-mail address: <u>lbenally@bhep.com</u> Telephone: <u>505-634-1111 ext 27</u>
20.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) COD Conditions (see attachment)
OCD Representative Signature: 31664 Approval Date: 8-19-08
Title: Emiro / Spec OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC  Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date:
22.  Closure Method:  Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  If different from approved plan, please explain.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.  Disposal Facility Name:
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (required for on-site closure)  Disposal Facility Name and Permit Number  Soil Backfilling and Cover Installation  Re-vegetation Application Rates and Seeding Technique  Site Reclamation (Photo Documentation)  On-site Closure Location: Latitude
25. Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone:



Surface Location: 1,770' FNL 944' FEL (SE/NE) Unit H

Sec.11 T29N R04W

Bottom Hole:  $\pm 1770'$  FNL  $\pm 700'$  FWL (SW/NW)Unit E

Sec.11 T29N R04W Rio Arriba County, New Mexico Lease: NM18316

## Hydro-geologic data for Carson 29-04-11 #2H

- Directions to location: From Bloomfield, New Mexico, travel approximately 48 miles east on Highway 64 to the Jicarilla J-10 Road. Turn right (South) on J-10 and travel south for approximately 1 mile. Turn right on Forest Service Road (FS) 301 and travel approximately 1.5 miles to the intersection of FS 301 and 301A. Turn right (north) and travel approximately 0.75 miles to the existing well-pad.
- The Project Area is roughly 22 miles east of Navajo Reservoir, and roughly 16 miles southwest of the town of Dulce, New Mexico. The well site is located in the northeastern portion of the San Juan Basin, completely within Rio Arriba County and within the boundaries of the Jicarilla Apache Reservation. Additionally for reference, the well locations can be found on the Bixler Ranch, N.M. (1963) and Cement Lake, N.M. (1963) U.S. Geological Survey (USGS) 7.5' topographic quadrangle maps (Geo Community 2007). The well is located on the south side of U.S. Highway 64 and would be accessed from existing roads branching from Jicarilla Road J-10 and FS 310.
- The lithology of the San Juan Basin includes mainly shales and sandstones of varying grain size but also includes coals, some carbonates, and igneous rocks. Sedimentary rocks display an aggregate thickness of over 14,000 feet near the Colorado-New Mexico state line. The elevation of the top of the Precambrian basement rocks is more than 7,500 feet below sea level at the deepest part of the Basin. Formations representing the Permian period through the Pennsylvanian period consist mainly of shales and sandstones. The Cretaceous-age rocks represent 6,000 feet of sandstones, siltstones, shales, and coals (Landes 1970). The predominant hydrocarbon-producing reservoirs are the Cretaceous Pictured Cliffs, Mesaverde Group, and Dakota Formations. They contain both source rocks and natural reservoirs for oil and gas (see attached Generalized Hydrogeologic Cross Section of San Juan Basin).

## o Depth to groundwater

Depth to nearest ground water over 100 feet below pit bottom.

Depth to nearest groundwater in the following Townships and Ranges:

- Township 29 Range 4 West Section 4, water depth measured at 315 feet below ground surface, POD number SJ 00037
- Township 29 Range 4 West Section 24, water depth measured at ground surface, Canyon Spring, POD number SP 04681

See attached iwater data

## References

Landes, Kenneth K. 1970. *Petroleum Geology of the United States*. Wiley-Interscience, John Wiley & Sons. New York, New York.

Manley, K., G.R. Scott, and R.A. Wobus, 1987. Geologic map of the Aztec 1 x 2 degree quadrangle, northwestern New Mexico and Southern Colorado: *U.S. Geological Survey Miscellaneous Investigations Series Map I-1730* (1:250,000).

Natural Resources Conservation Service. 2006. Web Soil Survey of Jicarilla Apache Nation, Parts of Rio Arriba and Sandoval Counties, New Mexico. Available online at http://websoilsurvey.nrcs.usda.gov/app/.



Surface Location: 1,770' FNL 944' FEL (SE/NE) Unit H

Sec.11 T29N R04W

Bottom Hole: ± 1770' FNL ± 700' FWL (SW/NW)Unit E

Sec.11 T29N R04W Rio Arriba County, New Mexico Lease: NM18316

## Siting Criteria Compliance Demonstrations

## • Depth to groundwater

Carson 29-04-11 #2

Section 11; Township 29 North; Range 4 West

Depth to nearest ground water over 100 feet below pit bottom.

Depth to nearest groundwater in the following Townships and Ranges:

- o Township 29 Range 4 West Section 4, water depth measured at 315 feet below ground surface, POD number SJ 00037
- o Township 29 Range 4 West Section 24, water depth measured at ground surface, Canyon Spring, POD number SP 04681

See attached *iwater* data.

## Distance to water course

- The pit is not located within 300 feet of a continuous watercourse, see attached topographic map.
- The pit is located over 600 feet east of an un-named wash and over 1000 feet south of Vaqueros canyon, see attached topographic map

## • Distance to permanent residence

■ The pit is not located within 300 feet of a permanent residence, school, hospital, or institution, see attached aerial image generated from the Natural Resources Conservation Service website, <a href="http://websoilsurvey.nrcs,usda,gov/app/WebSoilSurvey.aspx">http://websoilsurvey.nrcs,usda,gov/app/WebSoilSurvey.aspx</a>.

## • Distance to water well/Within incorporated municipal boundary

- The pit is not located within 500 feet of a private domestic water source or 1000 feet from any other fresh water well or spring. There are no identified water wells or stock water wells within a radius of 500 feet. Gomez Tank is over 600 feet west of the pit.
- The pit is not located within any incorporated municipal water boundary; location is on the Jicarilla Apache Reservation with Dulce, NM being the closest city, which is over 18 miles northeast.



## Distance to wetland

■ The pit is not within 500 feet of a wetland. The Environmental Assessment for the area did not identified wetlands within a 500-foot radius of the location, see attached map generated from the US Fish and Wildlife website. <a href="http://wetlandsfws.er.usgs.gov/wtlnds/launch.html">http://wetlandsfws.er.usgs.gov/wtlnds/launch.html</a>

#### • Distance to subsurface mine

• The pit does not overlie any subsurface mine, see attached map generated by the Mines, Mills, and Quarries in New Mexico 2001.

## • Within an unstable area

• The pit is not located in an unstable area, see attached map generated by Decision-makers Field Guide 2002.

## • FEMA Map (100 Year Floodplain)

• The FEMA Map for the Carson 29-0411 #2H is unavailable due to its location on National Forest. FEMA does not provide information for Indian Reservations, Forest Service Lands, and Military Installations.



## **Black Hills Gas Resources**

## Carson 29-04-11 #2

Surface Location: 1,770' FNL 944' FEL (SE/NE) Unit H
Sec.11 T29N R04W
Bottom Hole: ± 1770' FNL ± 700' FWL (SW/NW)Unit E
Sec.11 T29N R04W

Rio Arriba County, New Mexico Lease: NM18316

## Design and Construction Plan for Drilling Pit Carson 29-04-11 #2H

In accordance with Rule 19.15.17 NMAC the following information describes the design and construction of temporary pits for Black Hills Gas Resources (BHGR). The following describes BHGR standard procedures for temporary pits, a separate plan will be submitted for any temporary pit which does not conform to this plan

BHGR design and construction activities will use the following methods;

- BGHR will operate and maintain its temporary pits to contain drilling liquids and solids, in a manner to prevent contamination of fresh water and protection of the environment.
- Prior to constructing the pit, topsoil will be stockpiled on the well pad for later use in restoration/reclamation. The stockpile will not be within 300 feet of a continuous watercourse.
- BHGR will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will include;
  - o the operator,
  - o the location of the well site by Unit letter, section, township range,
  - o and emergency telephone numbers
- BHGR will construct all new fences using 48" steel mesh field-fence (hog wire) on the bottom with a single strand of barbed wire on top T-posts will be installed every 10 feet and corners shall be anchored using metal H bracing. Temporary pits will be fenced at all times excluding drilling or work-over, when the front side of the fence will be temporarily removed for drilling or work-over.
- BHGR shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities in order to prevent liner failure.
  - o Geo-textile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided
- BHGR will construct the pit so that the slopes are no steeper than two horizontal feet to 1 vertical foot.
  - o Pit walls will be walked down by a crawler type tractor following construction.
  - o All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 Inches deep.
  - o BHGR will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible; BHGR will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six Inches and will be oriented parallel to the line of maximum slope. BHGR will minimize the number of field seams in corners and irregularly shaped areas.



- o The volume of the pit shall not exceed 10 acre-feet, including 2 ft of freeboard
- All temporary pits will be lined with a minimum 20-mil, string reinforced, Linear Low Density Polyethylene (LLDPE) liner, complying with EPA SW-846 method 9090A requirements.
- The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
  - o The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit, if necessary.
- BHGR shall install, or maintain on site, an oil absorbent boom or other device to contain and remove oil from a pit's surface until the pit is closed.



Surface Location: 1,770' FNL 944' FEL (SE/NE) Unit H

Sec.11 T29N R04W

Bottom Hole:  $\pm$  1770' FNL  $\pm$  700' FWL (SW/NW)Unit E

Sec.11 T29N R04W Rio Arriba County, New Mexico Lease: NM18316

## Operation and Maintenance Plan for Drilling Pit Carson 29-04-11 #2H

In accordance with Rule 19.15.17 NMAC the following Information describes the operation and maintenance (O&M) of temporary pits for Black Hills Gas Resources (BHGR). The following describes BHGR standard procedures for temporary pits, a separate plan will be submitted for any temporary pit which does not conform to this plan

BHGR O&M activities will use the following methods;

- BHGR will operate and maintain its temporary pits to contain drilling liquids and solids, in a manner to prevent contamination of fresh water and protection of the environment. BHGR will recycle drilling liquids by transferring drilling liquids to pits ahead of the drilling rig.
- BHGR will not discharge into or store any hazardous waste in the temporary pit.
- After the pit is installed it will be marked to gauge liquid elevation in the pit, beginning from the bottom as zero and continuing to the top measuring feet of liquid.
  - o BHGR will maintain at least two feet of freeboard for a temporary pit, BHGR shall remove all free liquids from a temporary pit within 30 days from the release the drilling or work-over rig
- The pit will be monitored on a daily basis for the following:
  - o Overall physical condition
  - o Rips, cuts, or tears
    - If any physical damage is discovered NMOCD will be contacted, If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then BHGR shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner
    - If a leak develops below the liquid's level, BHGR shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner, BHGR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels BR shall notify the Aztec Division office as required pursuant to Subsection S of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels.



## **Black Hills Gas Resources**

- In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.
- The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides or a manifold system. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit.
- Proceeding drilling or work-over, oil from the pits surface will be skimmed from the surface and excess liquid will be removed from the pit and the remaining solids will be addressed using BHGR closure plan. Only fluids generated during drilling or work-over may be discharged into the temporary pit, BHGR will maintain the temporary pit free of miscellaneous solid waste or debris
- During drilling or work-over, BHGR will inspect the temporary pit daily to ensure compliance with this plan. Inspections will be logged into the daily drilling reports; this information will be provided to the Aztec Division office upon closure of the pit.
- After drilling or work-over, BHGR will inspect the temporary pit weekly as long as liquids remain in the temporary pit. A log of the inspections will be stored at BHGR office electronically and will be filed with the Aztec Division office upon closure of the pit.
- The temporary drilling pit will be less than 10 acre feet in volume.



Surface Location: 1,770' FNL 944' FEL (SE/NE) Unit H

Sec.11 T29N R04W

Bottom Hole: ± 1770' FNL ± 700' FWL (SW/NW)Unit E

Sec.11 T29N R04W Rio Arriba County, New Mexico Lease: NM18316

## Pit closure plan for Carson 29-04-11 #2H

In accordance with Rule 19.15.17.13 NMAC this is a new pit which will follow Rule 19.15.17.12 NMAC for closure. The following describes Black Hills Gas Resources (BHGR) standard procedures for temporary pit closures

BHGR closure activities will close temporary pits in place using the following methods;

- The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
- BHGR will submit to NMOCD within 60 days of pit closure using C-144 a pit closure report to include:
  - o Details on the soil cover and capping, where applicable
  - o A plot plan
  - o Inspection Reports
  - o Sampling Results
  - o C-105
  - o A copy of Deed Notice, where applicable. Location is on Carson National Forest.
- Any hydrocarbon products floating on top of the pit will be recovered and any free water or other
  liquids will be removed at the start of the pit closure process and disposed of in a divisionapproved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division
  district office approves, the pit must be completely dewatered before stirring or otherwise
  disturbing the bottom of the pit.
  - o Excess water removed from the pit will be filtered and pumped out and taken either to BHGR Water Station 6 located approximately 3 miles east of the location, section 32 T30N R3W on the Jicarilla Apache Reservation, or used for the next drilling location.
  - Excess sludge's or other solid materials will not included in the in place burial will be transported to the TNT Evaporation Pond/Land-farm located in sections 5, 7 and 8 T25N R3W, HRC 74 Box 113, Lindrith, NM 87029, NM1-8.
- Where applicable the surface owner shall be notified of BHGR proposed closure plan using a means that provides proof of notice (i.e. certified mail, return receipt requested, approved APD).
- Within 6 months of the Rig Off status occurring BHGR will ensure that temporary pits are closed, re-contoured, and reseeded.
- Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure via email, or verbally. The notification of closure will include the following:
  - Operator's name, Location by Unit Letter, Section, Township, and Range. Well name and API number.

- Pit contents will be sampled and analyzed for BTEX, DRO, GRO and Chloride to determine existing concentrations. Closure standards will be dependent upon vertical distance to groundwater from the bottom of the pit. A five point composite sample will be taken of the pit contents, samples will be tested per Subsection B of 19.15.17.13(B)(1)(b).
- o Benzene analyzed using EPA SW-846 method 8021B/8260B, with a detection limit of 0.2 mg/kg
- o BTEX analyzed using EPA SW-846 method 8021B/8260B, with a detection limit of 50 mg/kg
- o TPH analyzed using EPA SW-846 method 418.1, with a detection limit of 2500 mg/kg
- o GRO/DRO analyzed using EPA SW-846 method 8015M, with a detection limit of 500 mg/kg
- o Chlorides analyzed using EPA 300.1, with a detection limit of 500 mg/kg or 1000 mg/kg

In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul

- The remaining cuttings will be covered in place using native soils and the temporary berm material, the surface is graded to prevent water accumulation, for pit material with constituent concentrations slightly higher than those allowed for pit burial, the pit material may be blended with clean, local soil to dilute and reduce the high concentrations to acceptable levels before the waste/soil mix is buried. If pit material is above closure standard a secondary test will be taken to determine concentrations after soil blending. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents
- The liner will be cut free from its anchor points and rolled into itself on all four sides. Removal of liner will consist of manually or mechanically cutting liner and removing all remaining liner. Care will be taken to remove "All" of the liner ie., edges of liner entrenched or buried. All excessive liner will be disposed of at a licensed disposal facility
- A minimum of four feet of soil cover will be applied over the remaining pit contents and compacted. Stockpiled topsoil shall be applied last. The soil should be mounded and shaped to ensure runoff without erosion and diversion terraces constructed, if necessary. The cover shall include one foot of suitable material to establish vegetation at the site, or to the background thickness of topsoil, whichever is greater. Re-contouring of location will match fit, shape, line, form and texture of the surrounding area.
- The area is re-vegetated with native species to reduce the potential for erosion and promote full recovery of the area's ecosystem. BHGR shall seed the disturbed areas the first growing season after pit closure. Seeding will be accomplished using drilling on the contour whenever practical or by other division-approved methods, BLM/FS stipulated seed mixes will be used. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass and maintain that cover through two successive growing seasons. Re-seeding or planting will be continued until successful vegetative growth occurs.
- The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center. The marker will include welded or stamped, the Operator's Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an Indicator that the marker is an onsite burial location.
  - O During the production life of the well, a steel plate measuring no less than 12 inches by 12 inches will be used as a surface completion to indicate the pit location. The plate will include welded or stamped the date of closure and indicate an "in place burial" for the former pit.
- Attached is the Siting Criteria information
- Attached is the Black Hills Gas Resources Typical Drilling Pit Design
- Attached is a location map
- Attached is the BHGR pit closure diagram

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Revised October 12, 2005 Submit to Appropriate District Office

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 ubmit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

☐ AMENDED REPORT

Form C-102

DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505

## WELL LOCATION AND ACREAGE DEDICATION PLAT

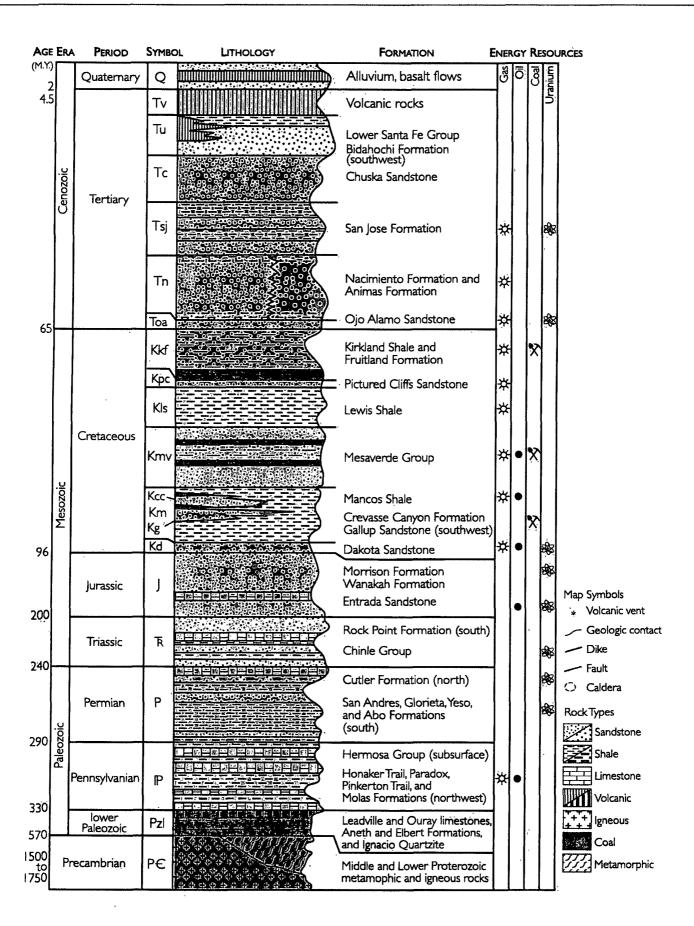
'API Number 30-039-2064	<sup>2</sup> Pool Code 9 74960	°Pool Name CHOZA MESA/PICTURED	CLIFFS					
<sup>4</sup> Property Code	<sup>6</sup> Pro	operty Name	Well Number					
301947	CARSO	CARSON 29-4-11 2H				CARSON 29-4-11		
OGRID No.	*Op	erator Name	<sup>9</sup> Elevation					
013925	BLACK HILLS	S GAS RESOURCES	7066'					

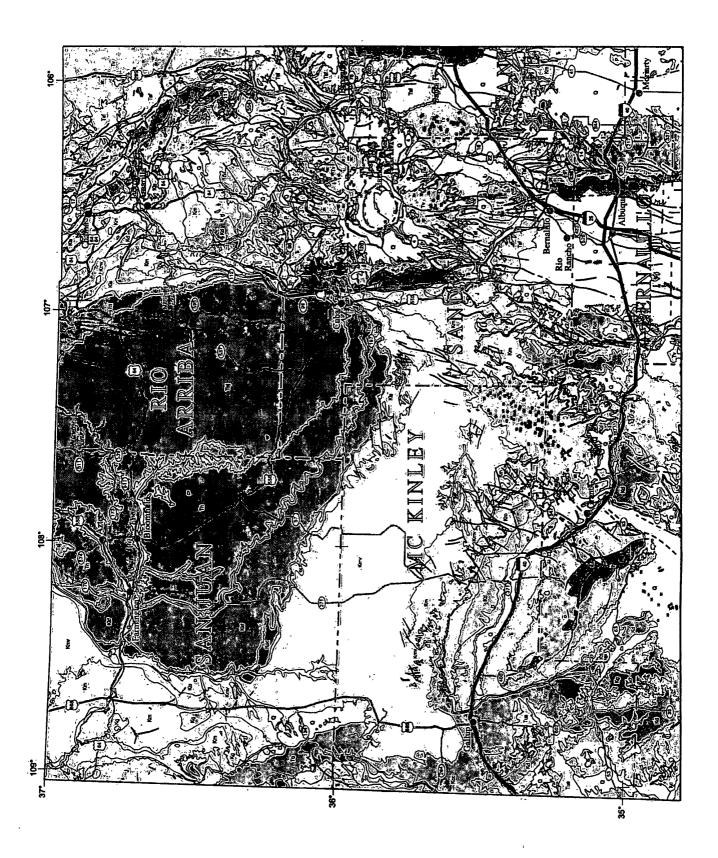
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	11	29-N	4-W		1770	NORTH	944	EAST	RIO ARRIBA
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Ε	11	29-N	4-W		1770	NORTH	700	EAST	RIO ARRIBA
18 Dedicated Acre	8		<sup>15</sup> Joint or	Infill	14 Consolidation C	ode	15 Order No.		
N/2 = 1	PROJECT	AREA							

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

16	OK A NON-SIAN	d can line daad	EEN AFFROVED BI	THE DIVISION
CALC'D. CORNER BY DBL. PROP.	N 89-2 5163. LAT: 36.74 LONG: 107.21 LAT: 36	7-42 W 4' (C)  CENTER OF PIT: 1144* N. (NAD 83) 786* W. (NAD 83) 5'44'29.18" N. (NAD 27) 7'13'02.14" W. (NAD 27)	CALC'D. CORNER BY DBL. PROP.	OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
10 FZ	LONG: 107.21 LAT: 36°44	)   	S 00-04-14 E 5246.5' (C)	Signature Date  June H. Bens 14  Printed Name  18 SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.  MAY 24, 2005
PRELIMINARY B.H. B.H.L. FOOTAGES A AND PROVIDED BY  CALC'D. CORNER BY DBL. PROP.	RE APPROXIMATE	SURFACE FOOTAGES RECORD PER RI	NOTE: S SHOWN ARE OF EQUEST OF B.L.M. AND PRODUCER.  CALC'D. CORNER BY DBL. PROP.	Date of Survey Signature and Seal of Professional Surveyor:  8894 Certificate Number





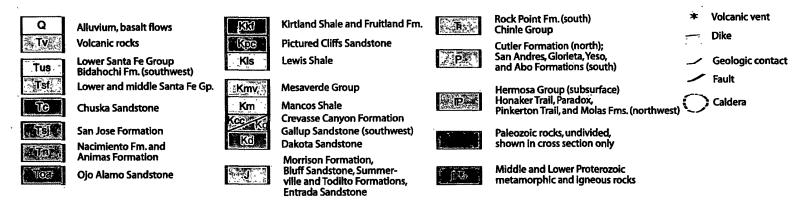


FIGURE 5—Generalized geologic map of the San Juan Basin (Beaumont, 1982; Green et al., 1991).

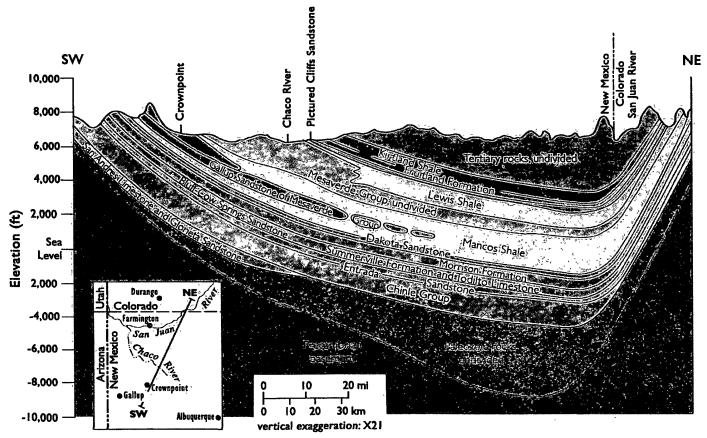
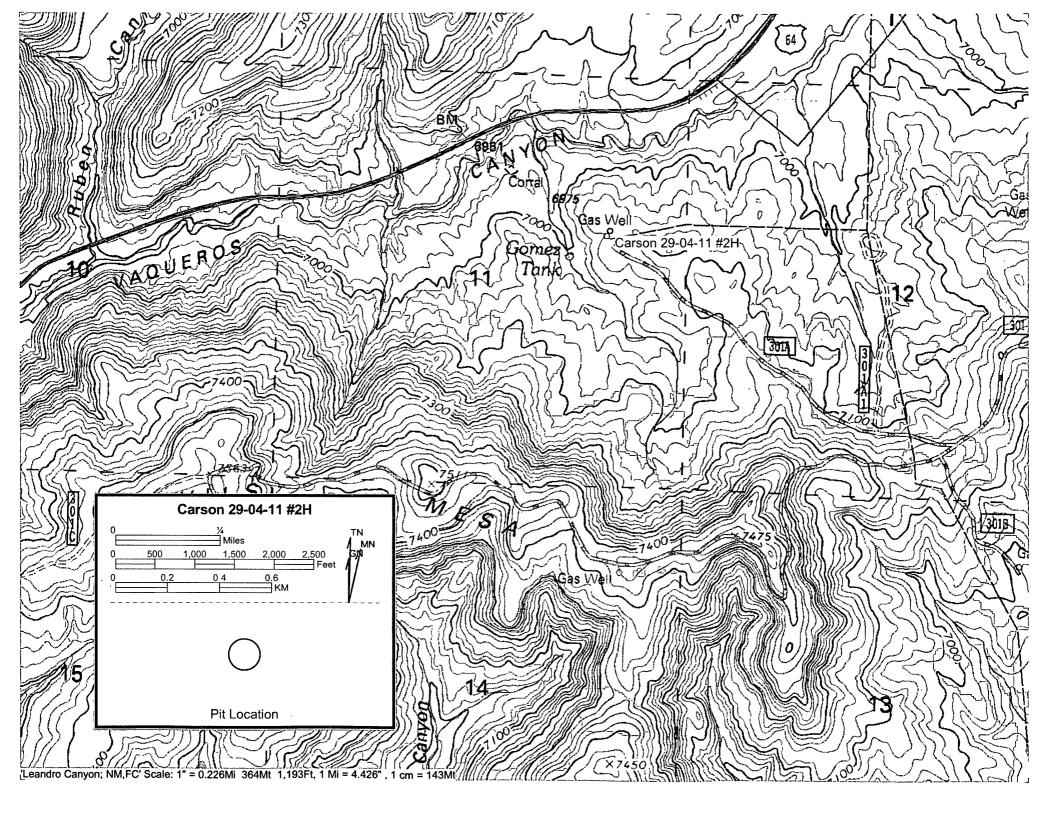
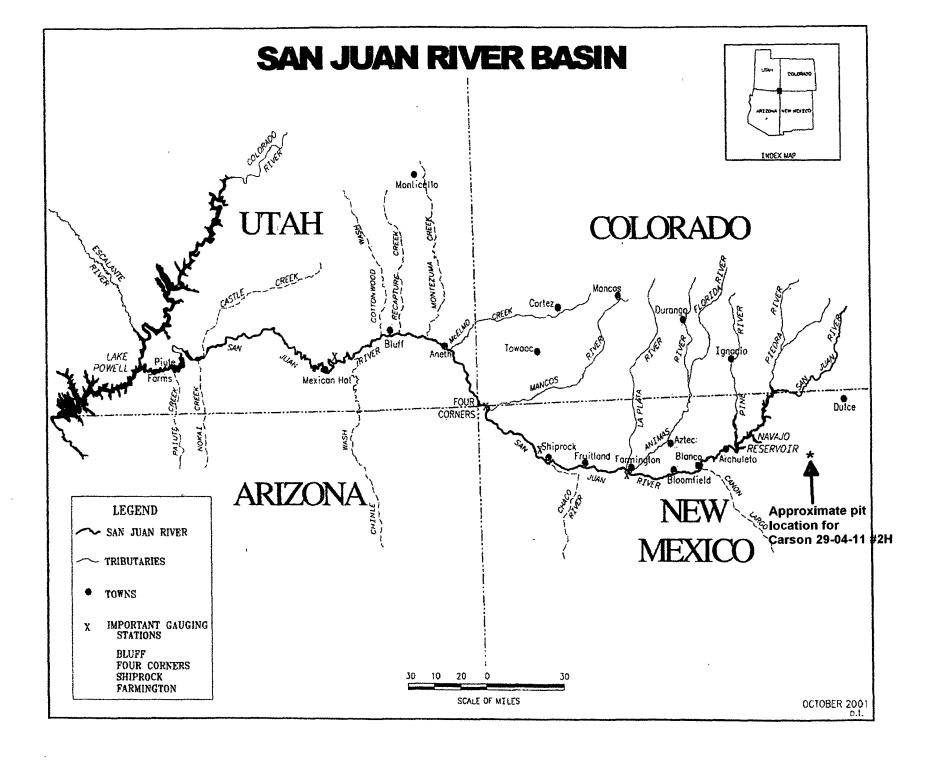
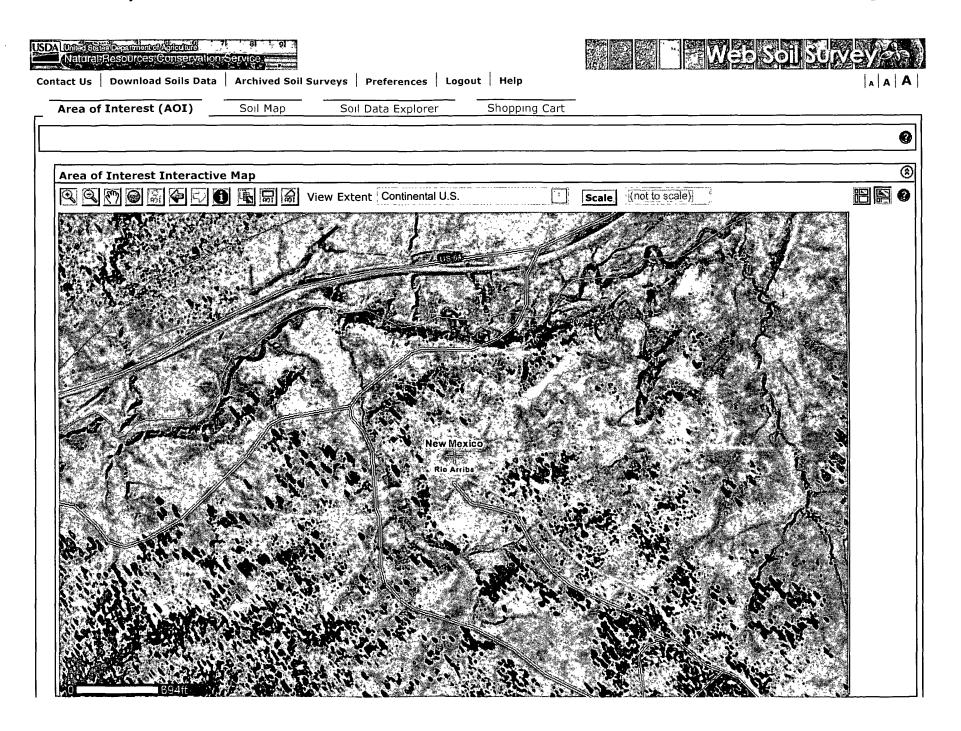
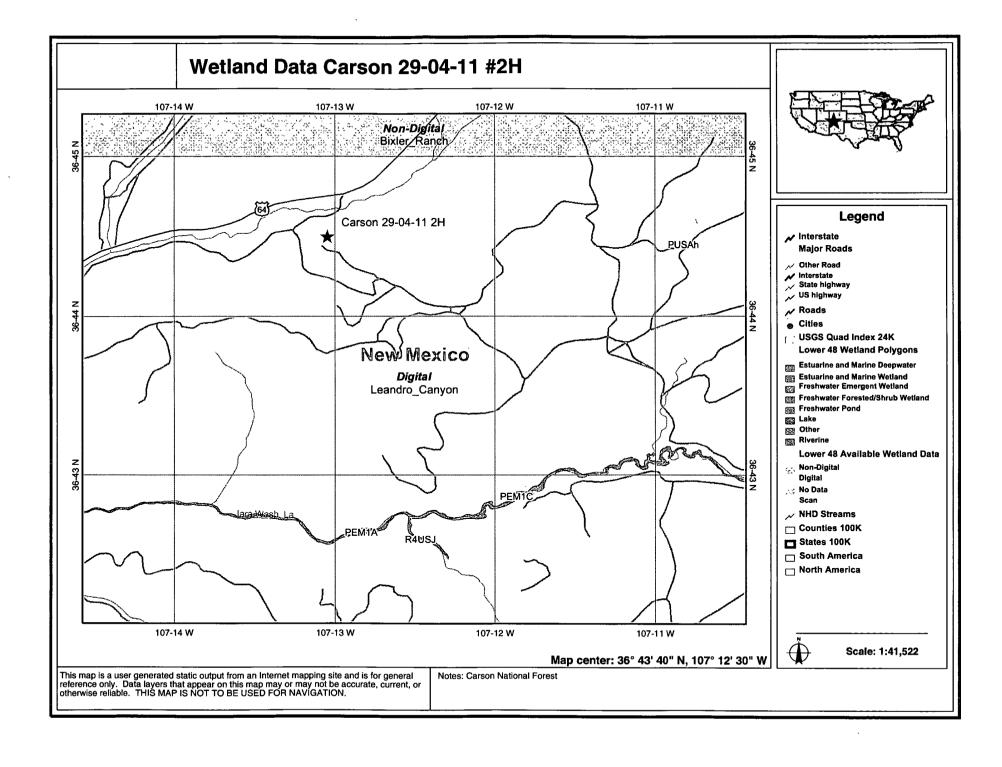


FIGURE 6—Generalized geologic cross section of the San Juan Basin (modified from Stone et al., 1983).





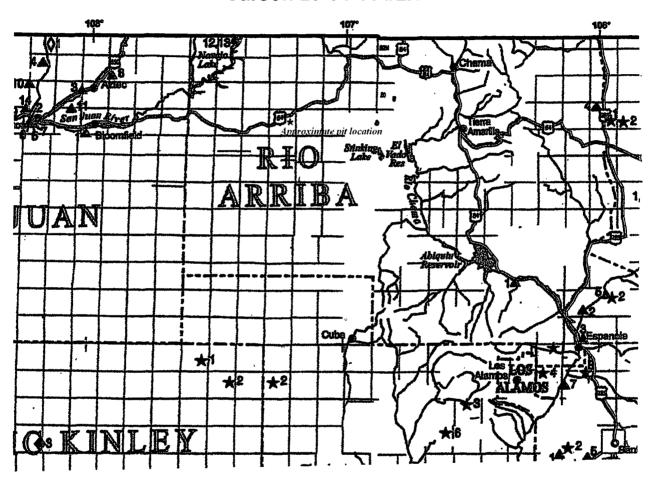




# Mines, Mills, and Quarries in New Mexico Spring 2001

Mining and Minerals Division New Mexico Energy

## Carson 29-04-11 #2H



PO Box 395, Logan, NM 88426 Surface Estate: Same

**RICHARDSON PIT A**2 Aggregate/Sand & Gravel

Corn Construction Co. PO Box 92797, Albuquerque, NM 87199

(505) 822-1776

Type of Operation: Surface Mine

Status: Active Mining

Location: Sec 12 T13N R36E USGS Quad: Martin Draw

Mineral Estate: Private Land; Tom Mitchell c/o Jim Richardson: Rte. 1, Box 26, Bard, NM 88411

Surface Estate: Same

## **Rio Arriba County**

#### **ABIQUIU SAND & GRAVEL PIT A**1 Sand & Gravel

Abiquiu Sand & Gravel PO Box 406, Abiquiu, NM 87510

(505) 685-4666

Type of Operation: Surface Mine Status: Under Development Location: Sec 19 T23N R6E USGS Quad: Abiquiu

Mineral Estate: Private Land; Bob A. Trujillo; PO Box

406, Abiquiu, NM 87510 Surface Estate: Same

#### **EL GUIQUE PIT A**2 Sand & Gravel

Espanola Transit Mix Co. PO Box 38, Espanola, NM 87532

(505) 753-2176

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901712 Location: Sec 26 T22N R8E USGS Quad: San Juan Pueblo

Mineral Estate: Private Land; Piedra Inc.; PO Box 38,

Espanola, NM 87532 Surface Estate: Same

#### LOWDERMILK **A**3 Sand & Gravel

Espanola Transit Mix Co. PO Box 38. Espanola, NM 87532 (505) 753-2176

Type of Operation: Mill Status: Active Mining MSHA Number: 2901990 Location: NW Sec 26 T21N R8E USGS Quad: San Juan Pueblo

Mineral Estate: Indian Land; San Juan Pueblo Surface Estate: Espanola Transit Mix; PO Box 38,

Espanola, NM 87532

#### **RED HILL MINE (PORTABLE CRUSHER NO. 1)** Scoria

Mountain West-Colorado Aggregate of NM 2255 Lava Lane, Alamosa, CO 81101

(719) 589-4925

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2902158

Location: SW/SW Sec 5 T29N R9E USGS Quad: San Antonio Mountain

Mineral Estate: Federal; BLM - Taos Resource Area; 224 Montevideo Plaza, Cruz Alts, Taos, NM 87571 Surface Estate: Joseph Garcia: PO Box 127, El Rito.

**A**5

NM 87530

#### **VELARDE PIT** Sand & Gravel

Espanola Transit Mix Co.

PO Box 38, Espanola, NM 87532

(505) 753-2176

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901712 Location: Sec 3 T22N R9E USGS Quad: Velarde

Mineral Estate: Private Land; Cook Brothers; PO Box

38. Espanola, NM 87532 Surface Estate: Same

## **Roosevelt County**

#### **NUNN PIT A**1 Crushed Rock/Caliche/Base Course

K. Barnett And Sons, Inc.

PO Box 960, Clovis, NM 88102-0960

(505) 762-4407

Type of Operation: Surface Mine

Status: Active Mining MSHA Number: 2901543 Location: Sec 22 T2S R33E USGS Quad: Delphos

Mineral Estate: Private Land; Mrs. Mary Lynch; South

Floyd Hwy, Portales, NM 88130

Surface Estate: Same

#### **VALLEY TOLAR PIT #1 A**2 Base Course/Fill Dirt/Sand & Gravel/Crushed Rock/Other

Valley Inc.

PO Box 344, Portales, NM 88130

(505) 355-7587

Type of Operation: Other Status: Active Mining MSHA Number: 2901797 Location: NE Sec 13 T3N R29E

USGS Quad: Krider

Mineral Estate: Private Land; Forrest Atchley; PO

**A**1

Box 272, Clayton, NM 88415 Surface Estate: Same

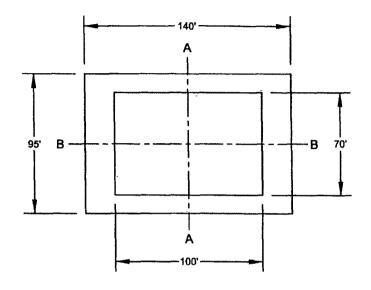
## San Juan County

## Sand & Gravel/Aggregate

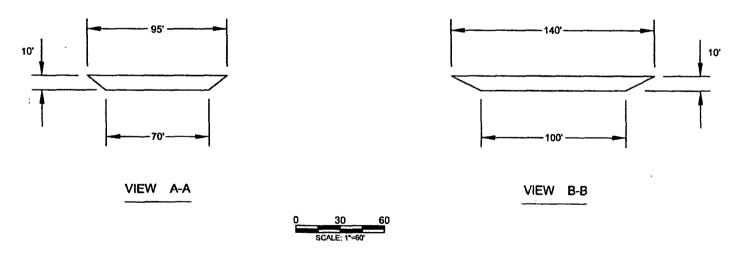
LaFarge/4 Corners Division PO Box 160, Aztec, NM 87410

(505) 334-1400

# BLACK HILLS GAS RESOURCES TYPICAL DRILLING PIT



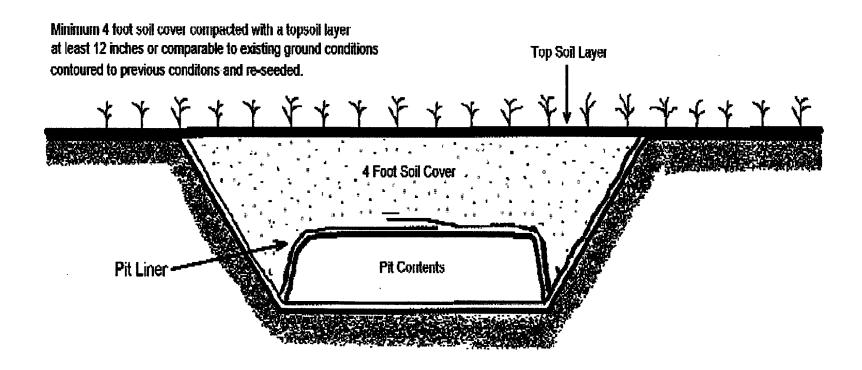
## **PLAN VIEW**



## NOTE:

PIT VOLUME APPROXIMATELY 22,000 BARRELS ≈3.3. ACRE FEET OF WATER

# Black Hills Gas Resources Pit Closure Diagram





# lack Hills Gas Resources

P.O. Box 249, 3200 N 1st St., Bloomfield, New Mexico 87413 FAX: (505)-634-1116 PHONE: (505)-634-1111 Ext. 27

## **FACSIMILE COVER PAGE**

To:

**Dave Seery** 

Company:

**US Forest Service** 

FAX:

(<u>505</u>) <u>632-3173</u>

DATE:

8/6/2008

**PAGES:** 

2 (Including Cover Sheet)

Regarding: Carson 29-04-11 #2H API# 30-039-20649

**NOTE:** 

Surface Owner Notification to close a drilling pit

per NMOCD regulations.

FROM:

Lynn H. Benally

Regulatory Specialist

Black Hills Gas Resources

505-634-1111 ext 27 505-793-6336 Cell

## **Pit Closure Notification**

In ordinance with 19.17.15.13 New Mexico Administrative Code (NMAC)

Operator/Pit Information:
Operator: Black Hills Gas Resources Telephone: (505) 634-1111 ext 27 e-mail address: dmanus@bhep.com
Address: 3200 N 1st Street PO Box 249 Bloomfield, NM 87413
Facility or well name: Many Canyons 29-04-11 #2H API #: 30-039-20649 Lease Name: NMNM18316
Footage:
U/L or Qtr/Qtr SE/NE Sec 11 T 29 N R 04 W County: Rio Arriba
Pit Coordinates:
Latitude <u>36.4132"N</u> Longitude <u>10721800W</u> NAD: 1927 [ 1983 [
<u>Pit</u>
Type: Drilling 🗵 Production 🗌 Disposal 🗍 Workover 🔲 Emergency 🗍
Lined 🗵 Unlined 🗌
Liner type: Synthetic M Thickness 20 mil Clay
Pit Volume <u>15,000</u> bbl
Black Hills Gas Resources plans to close the drilling Pit after completion of the well and approval from NMOCD
Date: August 6,2008
Printed Name/Title Lynn Benally / Regulatory Specialist
Signature Office
Received by:
Printed Name/Title
Signature Date:



## **Carson National Forest**

Jicarilla Ranger District 664 East Broadway Bloomfield, NM 87413

Phone: (505) 632-2956 FAX: (505) 632-3173

,	DATE: 8/6/06  LYNN Bendly Person	
Deliver To:	CYNN Benally	
	Black Hills Address/Unit	
	Phone/Fax Number	
From:	MARK Cotan	
	Person	
essage:		
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08/08/2008 WED 10:12 FAX 505+634+1118 BH GAS RESOURCES

## Pit Closure Notification

In ordinance with 19.17.15.13 New Mexico Administrative Code (NMAC)

Operator/Pit Information:   Operator: Black Hills Gas Resources	
Address: 3200 N 1st Street PO Box 249 Bloomfield, NM 87413  Facility or well name: Many Canyons 29-04-11 #2H API #: 30-039-20649 Lease Name: NMNM18316  Footage:  U/L or Qtr/Qtr SE/NE Sec 11 T 29 N R 04 W County: Rio Arriba  Pit Coordinates:  Latitude 36.4132"N Longitude 10721800W NAD: 1927   1983    Pit  Type: Drilling Production   Disposal Workover   Emergency    Lined Unlined    Liner type: Synthetic Thickness 20 mil Clay    Pit Volume 15.000 bbl  Black Hills Gas Resources plans to close the drilling Pit after completion of the well and approval from NMOCD  Date: Act 6, 2008  Printed Name/Title Lynn Benally / Regulatory Specialist  Signature Officers	Operator/Pit Information:
Facility or well name: Many Canyons 29-04-11 #2H API #: 30-039-20649 Lease Name: NMNM18316  Footage:  U/L or Qtr/Qtr SE/NE Sec 11 T 29 N R 04 W County: Rio Arriba  Pit Coordinates:  Latitude 36.4132"N Longitude 10721800W NAD: 1927 1983   Pit  Type: Drilling Production Disposal Workover Emergency  Lined Unlined Liner type: Synthetic Thickness 20 mil Clay Pit Volume 15.000 bbl  Black Hills Gas Resources plans to close the drilling Pit after completion of the well and approval from NMOCD  Date: Accest 6,2008  Printed Name/Title Lynn Benalty / Regulatory Specialist  Signature Chilling	Operator: Black Hills Gas Resources Telephone: (505) 634-1111 ext 27 e-mail address: dmanus@bhep.com
Footnge:   U/L or Qtr/Qtr   SE/NE   Sec   11   T   29 N   R   04 W   County: Rio Arriba     Pit Coordinates:   Latitude   36.4132"N   Longitude   10721800W   NAD: 1927   1983     Pit   Type: Drilling   Production   Disposal   Workover   Emergency     Lined   Unlined   Liner type: Synthetic   Thickness 20 mil   Clay     Pit Volume   15.000   bbl     Black Hills Gas Resources plans to close the drilling Pit after completion of the well and approval from NMOCD     Date:   Angust   General   Description   Disposal	Address: 3200 N 1" Street PO Box 249 Bloomfield, NM 87413
U/L or Qtr/Qtr SE/NE Sec 11 T 29 N R 04 W County: Rio Arriba  Pit Coordinates:  Latitude 36.4132"N Longitude 10721800W NAD: 1927 1983   Pit  Type: Drilling Production Disposal Workover Emergency  Lined Unlined Liner type: Synthetic Thickness 20 mil Clay Pit Volume 15,000 bbl  Black Hills Gas Resources plans to close the drilling Pit after completion of the well and approval from NMOCD  Date: Ascust 6,2008  Printed Name/Title Lynn Benally / Regulatory Specialist  Signature Mane/Title Lynn Benally / Regulatory Specialist	Facility or well name: Many Canyons 29-04-11 #2H API #: 30-039-20649 Lease Name: NMNM18316
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Date: August 6,2008  Printed Name/Title Lynn Benally / Regulatory Specialist  Signature Officer	
Printed Name/Title Lynn Benalty / Regulatory Specialist Signature Officer	Black Hills Gas Resources plans to close the drilling Pit after completion of the well and approval from NMOCD
Signature Officer	Date: Angust 6,2008
	Printed Name/Title Lynn Benally / Regulatory Specialist
	Signature Office
Printed Name/Title Mik S. S. Catpon Distant Park  Signature MARK 5. Catpon Date: 8/6/08	
Signature MARK 5. CA-toon Date: 8/6/08	Received by:
Signature MARK 5. CATEDN Date: 8/6/08	Printed Name/Title //www Distant Karle
Signature MARK 5. CATED Date: 8/6/08	
	Signature MARY 5. CATED Date: 8/6/08