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Form 3160- 5	UNITED	STATES			FORM APPROVED	
(August 2007)	DEPARTMENT C	F THE INTERIOR			OMB No. 1004- 0137	
	BUREAU OF LAN	D MANAGEMENT	Farmington Field	Office	Expires: July 31,2010	
61	INDRY NOTICES AN	DEPORTS ON	Bureau of Land Man	5 Lease Serial N	0.	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.					Jicarilla Contract 459	
					A second a Traile a	
					Agreement Name and/or No.	
SUBMIT I	N TRIPLICATE - Other II	structions on page	2.			
Oil Well Gas Well Other					d No.	
					Licerille 450 #5	
2. Name of Operator					9 API Wall No	
Black Hills Gas Resources, Inc.					1344	
3a. Address 3b. Phone No. (include area code) <b>PO Box 240 Bloomfield NM 97413</b> (505) 634-5104				10 Field and Pool or Exploratory Area		
4 Location of Well (Footage Sec. T	R M or Survey Description)	(505) 054 51		Cabresto Cnyn Tert / F. Blanco PC		
1165' FSL 7 460' FEL S	SE/SE Section 19 T30N	R3W (UL: P)		LL County of Parish State		
		()		Die Amilie Communitie		
				RIO AFFII	Sa County, New Mexico	
12. CHECK APPR	OPRIATE BOX(S) TO IND	DICATE NATURE OF	NOTICE, REPORT, O	R OTHER DA	AIA	
TYPE OF SUBMISSION	ION TYPE OF ACTIO					
Notice of Intent	Acidize	Deepen	Production ( St	art/ Resume)	Water Shut-off	
				······································		
	Altering Casing	Fracture Treat	Reclamation		Well Integrity	
Subsequent Report	Casing Repair	New Construction	Recomplete		Other	
61	Change Plans	Plug and abandon		bandon		
Final Abandonment Notice	Convert to Injection	Plug back	Water Disposal			
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### PLUG AND ABANDONMENT PROCEDURE

July 29, 2016

Jicarilla 459 #5

East Blanco Pictured Cliffs/Cabresto Canyon Tertiary 1156' FSL, 460' FEL, Section 19, T30N, R3W, Rio Arriba County, NM API 30-039-24344 / Long: \_\_\_\_\_ / Lat: \_\_\_\_\_

- Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.
  - 1. This project will use an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
  - Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
  - 3. Rods: Yes\_\_\_\_\_, No\_\_\_\_, Unknown\_\_\_\_\_.

     Tubing: Yes\_X\_\_\_\_, No\_\_\_\_\_, Unknown\_\_\_\_\_, Size\_\_\_2-3/8"\_\_\_\_, Length \_\_\_\_3845'\_\_\_\_.

     Packer: Yes\_X\_\_\_\_, No\_\_\_\_, Unknown\_\_\_\_\_, Type \_\_\_\_\_Model R Packer at 3740'\_\_\_\_\_\_.

     If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
  - 4. Plug #1 (Pictured Cliffs interval, Fruitland, Kirtland and Ojo Alamo tops, 3800' 3258'): Round trip 5.5" casing scraper to 3800', or as deep as possible. TIH and set 5.5" CR or CIBP at 3800'. Pressure test tubing to 1000#. Mix 77 sxs Class B cement (excess due to open perfs) and spot plug inside the casing above the CR or CIBP to isolate the PC interval and cover the Fruitland, Kirtland and Ojo Alamo tops. PUH and WOC. TIH and tag cement, if necessary top off.
  - Plug #2 (Nacimiento top, 2127'- 2027'): Mix 17 sxs Class B cement and spot a balanced plug inside the casing to cover the Nacimiento top. TOH and LD tubing.
  - Plug #3 (8-5/8" Surface casing shoe, 188' Surface): Perforate 3 HSC holes at 188'. Establish circulation out 5.5" x 8-5/8" annulus. Mix and pump approximately 60 sxs cement down the 5.5" casing until good cement returns out annuli and bradenhead. Shut in well and WOC.
  - ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and cut off anchors. Restore location per BLM stipulations.

## Jicarilla 459 #5

## Current

East Blanco Pictured Cliffs / Cabresto Canyon Tertiary





4250' TD 4115' PBTD

# Jicarilla 459 #5



7-7/8" Hole

5.5" 17#, J-55/N-80 Casing @ 4189'

Cement with 375 sxs

4250' TD 4115' PBTD

# Black Hills Gas Resources Jicarilla 459 #5 API 30-039-224344 1165' FSL & 460' FEL in SE/SE of Section 19, T30N R3W P&A Reclamation Plan

#### PURPOSE AND SCOPE

The purpose of this Reclamation Plan is to ensure final reclamation of the Jicarilla 459 #5 well pad site and associated access road based on the Bureau of Land Management (BLM) / Black Hills Gas Resources (BHGR) onsite inspection conducted on June 23, 2016 and in accordance with Onshore Order #1 and the Farmington Field Office (FFO) Bare Soil Reclamation Procedures.

#### PROPOSED RECLAMATION PLAN

BHGR will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.

- · Contact BLM 48 hours prior to commencing earthwork.
- · Reclamation to be completed within 1 year of plugging date.
- · Remove all underground production piping.
- · Remove Power poles, rectifier and radio equipment.
- · Remove all rig anchors on the location.
- Strip available topsoil from areas that will be disturbed during the reclamation of this well site.
- Remove all gravel on well pad surface. Gravel may be used as fill material at the base of the cut slope to reestablish the natural topography.
- Use fill material on the location to reconstruct natural topography. If enough fill material is available, excess
  material will be used to build up the access road AFTER ripping the road base to eliminate surface compaction
  hard pan.

# NOTE: NO disturbance will occur outside the areas currently disturbed by the well location access road boundaries.

- After location has been re-contoured, rip, disk and seed the location and access road with a disk type seed drill.
- Install a woven wire fence at and across the access road leading to the well site at the intersection of the main road and take off point(s) to discourage access on rehabilitated access road. Install a sign on fence, i.e. Seeded Area -- Do Not Disturb.

#### WASTE MATERIAL HANDLING AND DISPOSAL

All surface equipment and trash, if any, will be removed from the location and disposed of at an approved waste disposal facility.

If contaminated soil is discovered during the reclamation of this well location, BHGR will follow NTL 93-1 "Guidelines for Unlined Surface Impoundments Closure" for testing requirements and allowable threshold limits.

#### SURFACE RECONSTRUCTION AND STABILIZATION

The long term objective of final reclamation is to set the course for eventual ecosystem restoration including the restoration of natural vegetation. BHGR will avoid disturbance to the mature vegetation that has become well established on the pad perimeter to the extent practicable, and will focus reclamation efforts toward de-compaction, removing sharp, angular features to more closely approximate the natural contours, re-establishing natural drainage patterns, and re-vegetating the abandoned well pad and associated access road.

Jicarilla 459 #5 Page 1 of 4

#### WELL PAD RECLAMATION

- 1. The following activities would take place before commencing with any dirt work to restore the pad surface:
  - The BLM Authorized Officer will be notified at least 48 hours prior to construction;
  - Pre-construction conditions will be documented and pictures taken from the four cardinal directions for future reference;
  - The P&A marker will remain as is. All pertinent well information is permanently imprinted onto the marker for future reference.
  - Temporary and/or permanent stormwater and erosion control BMPs will be employed at appropriate locations around the pad as dictated by local drainage patterns and expected areas of disturbance and slopes AND across the access road. BMP selection will be determined by local factors and will be a combination of sediment and erosions controls that are deemed effective and low maintenance. Straw wattles, diversion ditches, mulch, soil blankets, and/or other suitable BMPs may be used in various combinations, as appropriate, during and after construction activities;
  - Remove all gravel on well pad surface. Gravel may be used at the base of the cut slope underneath the fill material to re-establish the natural topography;
  - Use fill material to reconstruct natural topography.
  - If enough fill material is available, excess material will be used to build up the access road (which is lower in depth than the natural grade due to compaction and erosion) AFTER ripping the road base to eliminate surface compaction hard pan;
  - Those areas where healthy, mature, and weed-free vegetation has established along the pad perimeter will remain undisturbed to the extent possible;
  - Natural drainage patterns will be restored, as practical, as near as possible to pre-disturbance conditions;
  - The pad surface will be ripped by Bulldozer or Grader to reduce compaction and to establish a suitable root zone in preparation for topsoil replacement;
  - Topsoil will be redistributed across the pad surface and disked to prepare the soil for seeding;
  - After location has been re-contoured, rip, disk and seed the location and access road with a disk type seed drill;

• All disturbed areas will be seeded in accordance with the FFO Bare Soil Reclamation Procedures.

(Note: some steps may occur in a different sequence than listed below or may occur simultaneously as the case may be)

### ACCESS ROAD RECLAMATION

Upon completion of all well pad reclamation activities, the associated access road will be reclaimed using much the same methods as described above. The road will be ripped and scarified to reduce compaction, and any sharp or angular cuts or fills would be restored as near as possible to pre-disturbance contours. Natural drainage patterns will be restored, to the extent practical, as near as possible to pre-disturbance conditions. **NO disturbance will occur outside the areas currently disturbed by the access road boundaries.** 

Established vegetation along the roadsides will remain undisturbed where possible to encourage native plant growth onto the new disturbance and to maintain erosion and sediment control. Straw wattles and/or diversion ditches will be placed at appropriate locations along the road as needed to prevent sediment transport to local drainages. Other suitable BMPs may be used in various combinations, as appropriate, during and after construction activities.

All disturbed areas will be re-seeded in accordance with BLM FFO Bare Soil Reclamation Procedures.

To discourage future use of the road, a temporary fence consisting of woven wire fence at and across the access road leading to the well site at the intersection of the main road and take off point(s) to discourage access on rehabilitated access road and will serve as a barricade to discourage access to the newly reclaimed road and will be left in place until the road & well pad have been stabilized.

A sign will be installed on the fence, i.e. "Seeded Area -- Do Not Disturb" or equivalent.

#### RE-ESTABLISHING SURFACE HYDROLOGY

Natural drainage patterns will be restored as near as possible to pre-construction conditions, except where restoring the natural drainage will cause excessive disturbance and disrupt the natural rehabilitation processes that have already established. In those areas, additional means for ensuring proper drainage, such as water bars or diversion ditches, may be employed.

Eroded areas will be filled in using fill material from the well location and Best Management Practices (BMP's) for Storm water pollution prevention such as silt traps, excelsior mats, wattles/sediment control logs and straw distributed on the surface and crimped or harrowed into the soil after drill seeding.

Given that the well pad will effectively be inaccessible following road reclamation and because the only potential pollution source will be runoff sediment; the temporary stormwater BMPs will be removed upon completion of construction activities. Drainage, sediment, and erosion controls will be managed through vegetative practices and/or biodegradable materials (i.e. soil blankets, straw wattles, crimped straw, mulch, brush and woody debris, pocking, etc.).

All drainage, sediment, and erosion controls will be implemented in accordance with BHGR standard Stormwater Management Plan.

#### SITE PREPARATION, SOIL MANAGEMENT AND HANDLING

Fill material will be pushed into cuts and over the back slope as necessary and any sharp, angular cuts and fills will be smoothed to conform as nearly as practical to the adjacent landform. The pad and road surfaces will then be ripped, scarified, and/or disked to a depth adequate for establishing a suitable root zone.

All salvaged topsoil material will be reused and spread evenly over the disturbed areas. Prior to seeding, all disturbed areas will be left with a rough surface to facilitate moisture and seed retention, and vegetative slash/brush will be placed at expected discharge areas to minimize sediment transport. The topsoil in the area is generally deep and no soil amendments are expected or proposed.

#### REVEGETATION

Following soil preparations, a range drill (disk type seed drill) will be used to apply the approved seed mix over the disturbed areas. The drill will be equipped with a depth regulator to ensure even planting depths appropriate to the plant species and soil types. Should broadcast seeding be deemed more appropriate in some areas, the seed application rates will be doubled and a rake or harrow used to incorporate the seed into the soil. Any steep slopes, greater than 2:1, will be blanketed for soil stabilization and seed retention.

The seed mixture and application rates for the Bureau of Indian Affairs, Jicarilla Agency, and the Jicarilla Environmental Protection Office Recommendation will be as follows:

Species	Variety	Pound/Acre (PLS)
Western wheatgrass	Arriba	3.2
Arizona Fescue	Redondo	1.0
Intermediate Wheatgrass	Amur or Oahe	2.25
Smooth Brome	Manchar	1.95
Galleta (caryopsis)	Viva	0.6
Spike Muhly	El Vado	0.45
Rocky Mountain Penstemon	Bandera	0.1
Small Burnet	Delar	2.0

Jicarilla 459 #5 Page 3 of 4 Seed mixtures will be certified weed-free and the seeding records (bag labels) or other official documentation will be available to the Authorized Officer prior to seeding.

Seeding will be accomplished as soon as reasonably possible following completion of earthwork activities. The Authorized Officer will be notified forty-eight (48) hours prior to commencing with seed application.

#### WEED MANAGEMENT

BHGR's objective is to implement an integrated weed management program to control weed populations and establish desirable vegetation utilizing the following strategies:

- · Control the introduction and spread of weeds through early detection.
- Establish desirable native vegetation on disturbed areas through successful re-vegetation efforts. Treat and control known weed populations.

Among the measures that will be implemented to prevent the introduction or establishment of weeds in areas not already infested include:

- · Identification and eradication of new infestations as quickly as practical.
- · Implement successful re-seeding efforts as quickly as practical in areas that have been disturbed.

Local factors, such as soil type and stability; grade; associated vegetation; existing and proposed land use; proximity to water; weed type and stage of growth; and severity of infestation; will be considered in selecting the appropriate weed management method(s). The management method(s) selected will be the least environmentally damaging, yet practical and reasonable in achieving the desired results.

BHGR will utilize chemical treatment as the preferred method of weed management and control. The proper use of herbicides at the optimum time can be an effective method for controlling persistent weeds. A Pesticide Use Proposal (PUP) will be pre-approved by the BLM prior to any chemical treatment. The use and handling of herbicides will be in accordance with all application rates, restrictions, and warnings listed on the label and MSDS. Preparation and application of all herbicides will be licensed by the State of Colorado Department of Agriculture, and a Daily Weed Pesticide Application Record will be completed and retained for all spraying activities.

Other methods to be used for weed control will include the following:

- Remove soil, seeds, and vegetative matter prior to entering or leaving the project site on all construction equipment and transport vehicles, trucks, pickups, and other vehicles;
- · Ensure that all seed mixes, straw, and/or mulch used in reclamation are certified weed-free;
- · Promptly revegetating disturbed areas;
- Treating and/or removing weeds prior to ground-disturbing activities to limit seed production and dispersal;
- Treating noxious weeds that have escaped the project area onto adjacent areas to prevent further expansion into un-infested areas and re-infestation of the treated area;

#### MONITORING

After the earthwork and seeding is completed, BHGR will submit a Sundry Notice informing the BLM that reclamation has been completed and which includes a request for an inspection of the earthwork and seeding.

A joint inspection will be conducted by BHGR and the BLM. During the inspection, the BLM and BHGR will establish a line point intercept transect.

After establishment of adequate vegetation, BHGR will read the line point intercept transect and take photos of the site. BHGR will submit a Final Abandonment Notice Sundry (FAN) requesting approval of the remediated well location and access road. Data results from the line point intercept transect and photos of the location and access road will be submitted as supporting documentation for the FAN Sundry.

Jicarilla 459 #5 Page 4 of 4 UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE 6251 COLLEGE BLVD. FARMINGTON, NEW MEXICO 87402

Attachment to notice of Intention to Abandon:

Re: Permanent Abandonment Well: Jicarilla 459 # 5

#### CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

3. The following modifications to your plugging program are to be made:

 a) Set Plug #2 (2162-2062) ft. to cover the Nacimiento top. BLM picks top of Nacimiento at 2112 ft.

NOTE: Operator reports High concentrations of H2S (266ppm GSV) at this well site. High to very high concentrations of H2S (135 ppm – 3,000 ppm GSV) have been reported in wells which produce gas from the San Jose, Nacimiento, Ojo Alamo, and P.C. formations within a 1 mile radius of this location. It is imperative that H2S monitoring and safety equipment be on location during P&A operations at this well site.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.