

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.

OIL CONS. DIV DIST. 3
FEB 15 2017

5. Lease Serial No. **31MSF080224**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
GCU COM D 160

9. API Well No.
30-045-07832-00-S1

10. Field and Pool or Exploratory Area
BASIN DAKOTA

11. County or Parish, State
SAN JUAN COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator **BP AMERICA PRODUCTION COMPANY** Contact: **TOYA COLVIN**
Mail: **Toya.Colvin@bp.com**

3a. Address **501 WESTLAKE PARK BLVD. THREE ELDRIGE PLACE HOUSTON, TX 77079**

3b. Phone No. (include area code) **Ph: 281-892-5369**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 27 T29N R12W NESE 1850FSL 1190FEL 36.695210 N Lat, 108.081250 W Lon

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

RP MK

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Subject well was P&A'd in 2004. December 2016 P&A marker was found knocked over and gas was found bubbling out of the plugged wellbore.

BP requests to re-enter the wellbore to shut off the source of the gas. Please see the attached procedure of our proposed operations.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #366786 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by JACK SAVAGE on 02/14/2017 (17JWS0068SE)

Name (Printed/Typed) **TOYA COLVIN** Title **REGULATORY ANALYST**

Signature (Electronic Submission) Date **02/13/2017**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JACK SAVAGE Title **PETROLEUM ENGINEER** Date **02/14/2017**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **Farmington**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2) **** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOC-D-AV

8

GCU Com D 160

API: 30-045-07832

Location: Unit I - Sec 27 - T29N - R12W

Background:

The GCU Com D 160 was plugged and abandoned in 2004. The P&A marker was found knocked over in December 2016. Incidentally, gas was found bubbling out of the plugged wellbore.

Scope:

Bp proposes to re-enter the wellbore to shut-off the source of the gas. Below is basic job procedure followed by the current and proposed wellbore diagram.

Procedure:

1. Drill out cement inside 4.5" production casing to ~800'
2. Run radial CBL from 800' to surface
3. Contact regulatory agencies to confirm perforation depth
4. Perforate casing at 500'
5. Perform hesitation squeeze to isolate source of gas
6. Confirm bradenhead pressure is 0 psi
7. Spot 42 sacks Class B cement from 550' to surface
8. Cut-off wellhead
9. Install below grade marker

Current WBD



GCU Com D 160-DK
 Dakota
 API #30-45-07832
 Unit I - Sec 27 - T29N - R12W
 San Juan County, NM

Formation Tops

Ojo Alamo	96
Kirtland	219
Pictured Clk	1340
Mesaverde	2907
Mancos	4075
Gallup	4994
Greenhorn	5758
Dakota	5928

KB 5384
GL:



Surface Casing Data

12 1/4" hole
 8 5/8", 24# casing at 358'
 Cmt w/ 225 sx, did not circulate
 TOC: Surface, circulated 25 sx through 1" pipe

Perf @ 405' w/ 4 spf
 Unable to circulate. Inject 1/2 bpm at 1300 psi
 Displaced a total of 1.75 bbls cmt in 2 tries

100 sacks cement to surface, 0'-1350'

Cmt Retainer @ 1350'

12 sacks, Class G, 15.8#, 1700'-1850'

12 sacks, Class G, 15.8#, 2800'-2960'

DV Tool 4189'

12 sacks Class G, 15.8# 4914'-5060'

12 sack Class G, 15.8 #, 5650'-5800'
 CIBP @ 5400'

Perforation Data

5856'-5868' 4 spf
 Frac'd w/ 25K gals water, 20K lbs sand
 Breakdown pressure 2200 psi, treating 3325 psi @ 40 bpm
 5936'-5960' 2 spf
 5972'-5984' 2 spf
 Frac'd w/ 48K gals wtr, 50K# sand
 Treating pressure 3125 psi @ 53 bpm

Production Casing Data

7 7/8" hole
 4 1/2", 10.5# casing at 6032'
 Stage 1: Cmt w/ 400 sx containing 6% gel 2 pounds medium tuf plug.
 Followed with 100 sxs.
 Stage 2: Cmt w/ 1100 sx containing 6% gel and 2 lbs medium tuf plug sack.
 Circulated to surface.

PBTD 5957
 TD 6032

Proposed WBD

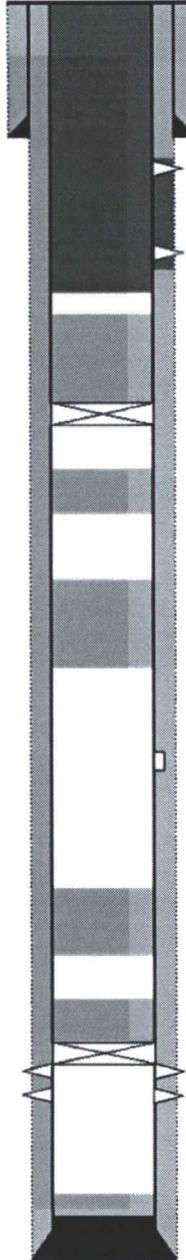


GCU Com D 160-DK
 Dakota
 API #30-45-07832
 Unit I - Sec 27 - T29N - R12W
 San Juan County, NM

Formation Tops

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Mancos	4075
Gallup	4994
Greenhorn	5758
Dakota	5928

KB: 5384'
GL:



Surface Casing Data
 12 1/4" hole
 8 5/8", 24#, casing at 358'
 Cmt w/ 225 sx, did not circulate
 TOC: Surface, circulated 25 sx through 1" pipe

Spot 42 sx Class B cmt 550' surface
 Perf @ 408' w/ 4 spf
 Unable to circulate. Inject 1.2 bpm at 1300 psi.
 Displaced a total of 1.75 bbls cmt in 2 tries

Perf @ 500'
 Squeeze 20 sx Class B cmt 400'-500'

Plug 1: 800'-1350'

Cmt Retainer @ 1350'

12 sacks Class G, 15.8#, 1700'-1850'

12 sacks Class G, 15.8#, 2800'-2960'

DV Tool 4189'

12 sacks Class G, 15.8# 4914'-5060'

12 sack Class G, 15.8 #, 5650'-5800'
 CIBP @ 5800'

Perforation Data
 5856'-5888' 4 spf
 Frac'd w/ 25K gals water, 20K lbs sand.
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 Frac'd w/ 48K gals wr, 50K# sand
 Treating prssure 3125 psi @ 53 bpm

Production Casing Data
 7 7/8" hole
 4 1/2", 10.5# casing at 6032'
 Stage 1: Cmt w/ 400 sx containing 6% gel 2 pounds medium tuf plug.
 Followed with 100 sxs.
 Stage 2: Cmt w/ 1100 sx containing 6% gel and 2 lbs medium tuf plug sack.
 Circulated to surface.

PBTD: 5997'
 TD: 6032'

BLM Conditions of Approval

The following surface rehabilitation Conditions of Approval must be complied with as applicable, before this well can be approved for final abandonment (43CFR 3162.3-4). **Surface rehabilitation work shall be completed within one (1) year of the actual plugging date. Notification for completion of this work can be submitted with a Sundry Notice (3160-5).**

1. All fences, production equipment, purchaser's equipment, concrete slab, deadman (anchors), flowlines, risers, debris and trash must be removed from the location.
2. Production pits will be closed according to the Unlined Surface Impoundment Closure Guidelines, as approved in the Environmental Assessment of December 1993. Any oil stained soils may be remediated on-site according to these guidelines or disposed of in an approved disposal facility.
3. The well pad will be shaped to the natural terrain and left as rough as possible. All compacted areas and areas devoid of vegetation shall be ripped to a minimum of 12" before seeding.
4. Access roads will be shaped to conform to the natural terrain and left as rough as possible to detour vehicular travel. Access will be ripped to a minimum of 12" in depth and waterbarred prior to seeding. All erosion problems created by the development must be corrected prior to acceptance of release. Water bars should be spaced as follows:

(%) Slope	Spacing Interval (ft.)
Less than 20	200
2-5	150
6-9	100
10-15	50
Greater than 15	30

All water bars should divert to the downhill side of the road.

5. All disturbed areas will be seeded with the prescribed certified seed mix (reseeding may be required).

6. Notify the Surface Managing Agency (SMA) seven (7) days prior to seeding so that they may be present for that option.

7. The period of liability under the bond of record will not be terminated until the lease is inspected and the surface rehabilitation approved.

Other SMA's may vary slightly in their restoration requirements. It is your responsibility, as the operator, to obtain surface restoration requirements for other SMA's. The BLM will need to be provided with a copy of another SMA requirement. Any problems concerning stipulations received for another SMA should be brought to the BLM Farmington Field Office.

On private land, the BLM should be provided with a letter from the fee owner stating that the surface restoration is satisfactory.

**GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON FIELD OFFICE**

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densimeter/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log (CBL) is required to be ran if one had not been previously ran or cement did not circulate to surface during the primary cement job or subsequent cement job.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H₂S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.