

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**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.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMSF080844A
2. Name of Operator BP AMERICA PRODUCTION CO Contact: TOYA COLVIN E-Mail: Toya.Colvin@bp.com		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO
3a. Address 200 ENERGY COURT FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 281-366-7148	7. If Unit or CA/Agreement, Name and/or No. 892000844F
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 19 T28N R11W NENW 0830FNL 1590FWL 36.652530 N Lat, 108.048050 W Lon		8. Well Name and No. GALLEGOS CANYON UNIT 168E
		9. API Well No. 30-045-24863-00-S1
		10. Field and Pool, or Exploratory BASIN DAKOTA
		11. County or Parish, and State SAN JUAN COUNTY, NM

**12. CHECK 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"/> Fracture Treat	<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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input 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	

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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BP America Production Company requests permission to re-complete into the Pinon Gallup by setting a CIBP over the Basin Dakota, establishing a steady production rate in the Pinon Gallup, then remove the CIBP & Downhole Commingle production with the existing Basin Dakota.

The DK (71599) & Pinon Gallup (50380) are pre-approved for DHC per NMOCD Case No. 12520; Order No. R-11567 effective 04/26/2001. Although the interest owners are not identical between these two pools, this same order established approval for subsequent applications for DHC of production in wellbores within the GCU without notice to the unit interest owners. Therefore, no additional notification is required prior to DHC approval.

Production is proposed to be allocated based on the subtraction method using the DK projected future decline. That production will serve as a base for production subtracted from the total

RCVD APR 30 '13  
OIL CONS. DIV.

DIST. 3

DHC - 9834 A2

\* Prior to party, provide CDL to AGENCIES for review

14. I hereby certify that the foregoing is true and correct. Electronic Submission #205104 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO, sent to the Farmington Committed to AFMSS for processing by STEVE MASON on 04/26/2013 (13SXM1494SE)	
Name (Printed/Typed) TOYA COLVIN	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 04/23/2013

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>STEPHEN MASON</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>04/26/2013</u>
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 <u>Farmington</u>

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

NMOCD A

**Additional data for EC transaction #205104 that would not fit on the form**

**32. Additional remarks, continued**

production for the commingled well. The balance of the production will be attributed to the Pinon Gallup.

Commingling production downhole in the subject well from the proposed pools will not reduce the value of the total remaining production. Please see attached DHC procedure, wellbore schematic & C-102 plat. NMOCD notified via C-103 for BLM lease NMSF080844AA.

# Current Wellbore



FIELD	San Juan		
WELL	GCU 168E		
COUNTY	San Juan, New Mexico		
API No.	30-045-24863		
RKB ELEVATION	5,606	SEC:	19
GL ELEVATION	5,593	TOWN:	28N
RKB-GL	13	RANGE:	11W
Lat 36.65266		Long: -108.0486	

1. MIRU
2. ND wellhead/NU BOPE
3. Test BOPE
4. Pull Production tubing
5. Run bit and scraper, run mill if necessary
6. Set CIBP/Cement Retainer @ 5970' (~30' above top Dakota Perforation)
  - a. Dakota Perfs @ 6005'-6124'
7. MIT casing
  - a. If frac down casing: minimum 3500 psi MIT
  - b. If using Frac string: minimum 1600 psi MIT
  - c. Minimum pressure to be 500 psi per NMOCD rule 19.15.25.14
8. Repair integrity issues as necessary
9. Run CBL log, verify 500' of cement above planned top perf.
10. Spot 50' sand on top of CIBP (5, 100# sacks)
11. Shoot perfs
  - a. Planned perfs: 5536'-5560'
12. Run frac string if necessary
13. ND BOPE
14. NU Frac stack
15. RDMO
16. Frac Gallup/Mancos using 70Q N2 foam and 100K#s of sand
17. MIRU
18. RIH with mill and mill up all plugs to ~5920'
19. Run production tubing and land @ ~5660'
20. Run Pump and rods
21. Produce Pinon Gallup until production can be determined, after a steady production rate is obtained, we will go back and mill up the CIBP set @ 5970' and co-mingle with the Dakota

Current WBD:

GCU 168E

### Current Wellbore



COMMENTS

8.625" Casing TOC: Surface  
Cmtl w/ 315 sx Type A

4.5" Casing TOC: 800'  
Stage 1: Pump 440 sx C;  
Stage 2: Pump 1000 sx C;

Formation Tops

Nacimiento 337  
Kirtland 395  
Fruitland 660  
PC 1,486  
Chacra 2,429  
MV 3,118  
Cliffhouse 3,118  
Menefee 3,174  
PL 3,896  
Gallup 5,110  
Main DK 6,054

DV Tool @ 4373'

DAKOTA Perforations

Frac'd with "110,000 gal foam" and  
152,250# 20-40 sand

6005' - 6012'  
6054' - 6094'  
6108' - 6124'

12-1/4" hole

A

7-7/8" hole

B

EQUIPMENT DESCRIPTION

FIELD: San Juan  
WELL: GCU 169E  
COUNTY: San Juan, New Mexico  
API No.: 30-145-24863  
RKB ELEVATION: 5,606 SEC.: 18  
GL ELEVATION: 5,593 TOWN: 28N  
RKB GL: 13 RANGE: 11W  
Lat: 36.65266 Long: 108.0486

DIRECTIONAL DATA

MAX ANGLE: 1.250 THRU: TD  
KOP: N/A TYPE: Vertical

PRODUCTION DETAIL:

	TUBING	CASING
SIZE	2 3/8 "	4 1/2 "
WEIGHT	4.7ppf	10.5ppf
GRADE	J-55	K-55
DEPTH	6,120'	6,179'
THREAD	8R EUE	ST+C
I.D.	1.995"	4.052"
DRIFT	1.901"	3.927"
BURST	7700 PSI	4790 PSI
COLLAPSE	8100 PSI	4010 PSI
CAPACITY	0.00387 bbl/ft	0.01595 bbl/ft
# JOINTS	191	

PRODUCTION ASSEMBLY DETAIL:

#	O. D. IN	I. D. IN	LENGTH FT	Description
1	3.125	?	1.10	SN
2	3.125	?		Sawtooth Collar
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

CASING DETAIL:

#	SIZE	WGHT	GRADE	THREAD	DEPTH
A	8 5/8	24	J-55	ST+C	367
B	4 1/2	10.5	K-55	ST+C	6,179
C					
D					
E					
F					
G					

PRESSURE DATA

BOTTOM HOLE PRESSURE: 350 PSI  
per SOR

BOTTOM HOLE TEMPERATURE: 162°F  
Calculated: 65 + 0.0138 \* 6211

Prepared by: David Wages Date: 18-Apr-2013

Unable to retrieve plunger stop

SN @ 6119'

EOT @ 6,120

Plug Back Total Depth: 6154 MD 6211 TVD

Total Depth: 6179 MD 6179 TVD

Spud: 10/1981 Completed: 11-15-1981 Last Workover:

## Proposed Final WBD:

GCU 168E

Current Wellbore



COMMENTS		EQUIPMENT DESCRIPTION	
8.625" Casing TOC: Surface Cmt w/ 315 sx Type A			
4.5" Casing TOC: 900' Stage 1: Pump 440 sx C; Stage 2: Pump 1000 sx C;			
Formation Tops			
Nacimiento	337		
Kirtland	395		
Fruitland	660		
PC	1,486		
Chacra	2,429		
MV	3,118		
Cliffhouse	3,118		
Menefee	3,174		
PL	3,896		
Gallup	5,110		
Main DK	6,054		
DV Tool @ 4373'			
Proposed Gallup Perforations 5536'- 5560'		Gallup frac'd w/ ~100lb# 20-40 sand in 70Q N2 foam	
EOT @ ~5660'			
CIBP @ 5970'			
DAKOTA Perforations			
Frac'd with "110,000 gal foam" and 152.250# 20-40 sand			
6005'- 6012'			
6054'- 6094'			
6108'- 6124'			
7-7/8" hole			
B			
Plug Back Total Depth:		6154	MD
Total Depth:		6179	MD
		6211	TVD
		6179	TVD

FIELD				San Juan			
WELL				GCU 168E			
COUNTY				San Juan, New Mexico			
API No.				30-045-24863			
RKB ELEVATION		5,606		SEC.		19	
GL ELEVATION		5,593		TOWN		28N	
RKB-GL		13		RANGE		11W	
Lat 36.65266				Long -108.0486			
DIRECTIONAL DATA							
MAX ANGLE		1,250		THRU		TD	
KOP		N/A		TYPE		Vertical	
PRODUCTION DETAIL							
	RODS	TUBING	CASING				
SIZE	3/4 "	2-3/8"	4 1/2 "				
WEIGHT		4.7#	10.5ppf				
GRADE	D	J-55	K-55				
DEPTH	0-5650'	0-5660'	6,179'				
THREAD		8rd EU	ST+C				
I.D.		1.995"	4.052"				
DRIFT		1.901"	3.927"				
BURST		7700 psi	4790 PSI				
COLLAPSE		8100 psi	4010 PSI				
CAPACITY		0.004 bbl/ft	0.01595 bbl/ft				
# JOINTS							
PRODUCTION ASSEMBLY DETAIL							
#	O. D.	I. D.	LENGTH	Description			
	IN	IN	FT				
1	2.375	1.995	5630.00	Prod. Tubing			
2	3.125	1.780	1.00	F-Profile Nipple			
3	3.375	1.995	16.00	weep hole Mule Shoe			
4							
5	Rods						
6	0.750		5480.000	3/4" Grd.D rods			
7	1.500		150.000	Sinker Bar			
8	2.000	1.250	13.000	Pump			
9							
10							
11							
12							
CASING DETAIL							
#	SIZE	WGHT	GRADE	THREAD	DEPTH		
A	8 5/8	24	J-55	ST+C	367		
B	4 1/2	10.5	K-55	ST+C	6,179		
C							
D							
E							
F							
G							
PRESSURE DATA							
BOTTOM HOLE PRESSURE				350 PSI			
per SOR							
BOTTOM HOLE TEMPERATURE				162°F			
Calculated: 65 + 0.0138 * 6211							
Prepared by: David Wages				Date: 23-Apr-2013			
Spud: 10/1981 Completed: 11-15-1981 Last Workover:							

FIELD	San Juan				
WELL	GCU 168E				
COUNTY	San Juan, New Mexico				
API No.	30-045-24863				
RKB ELEVATION	5,606	SEC.	19		
GL ELEVATION	5,593	TOWN	28N		
RKB-GL	13	RANGE	11W		
Lat 36.65286		Long -108.0486			
DIRECTIONAL DATA					
MAX ANGLE	1.250	THRU	TD		
KOP	N/A	TYPE	Vertical		
PRODUCTION DETAIL					
	RODS	TUBING	CASING		
SIZE	3/4 "	2-3/8 "	4 1/2 "		
WEIGHT		4.7#	10.5ppf		
GRADE	D	J-55	K-55		
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# JOINTS					
PRODUCTION ASSEMBLY DETAIL					
#	O. D.	I. D.	LENGTH	Description	
	IN	IN	FT		
1	2.375	1.995	5630.00	Prod. Tubing	
2	3.125	1.780	1.00	F-Profile Nipple	
3	3.375	1.995	16.00	weep hole Mule Shoe	
4					
5	Rods				
6	0.750		5480.000	3/4" Grd.D rods	
7	1.500		150.000	Sinker Bar	
8	2.000	1.250	13.000	Pump	
9					
10					
11					
12					
CASING DETAIL					
#	SIZE	WGHT	GRADE	THREAD	DEPTH
A	8 5/8	24	J-55	ST+C	367
B	4 1/2	10.5	K-55	ST+C	6,179
C					
D					
E					
F					
G					
PRESSURE DATA					
BOTTOM HOLE PRESSURE					350 PSI
per SOR					
BOTTOM HOLE TEMPERATURE					162°F
Calculated: 65 + 0.0138 * 6211					
Prepared by: David Wages			Date: 23-Apr-2013		