Form 3160-5
(August 2007)

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.

5. Lease Serial No.
NMSF078904

6. If Indian, Allottee or Tribe Name
EASTERN NAVAJO

7. If Unit or CA/Agreement, Name and/or No.
892000884F

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
GALLEGOS CANYON UNIT 230E

2. Name of Operator
BP AMERICA PRODUCTION CO
Contact: TOYA COLVIN
E-Mail: Toya.Colvin@bp.com

9. API Well No.
30-045-26010-00-D1

3a. Address
200 ENERGY COURT
FARMINGTON, NM 87401

3b. Phone No. (include area code)
Ph: 281-366-7148

10. Field and Pool, or Exploratory
SIMPSON

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 23 T28N R12W SWSE 1070FSL 1630FEL
36.643310 N Lat, 108.077120 W Lon

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			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Workover Operations
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 respectfully request permission to downhole commingle the existing Basin Dakota and Simpson Gallup formations. If we are unable to pull the long string and exceed the economic limit of the Basin Dakota, BP respectfully requests to P&A the Basin Dakota formation and produce from the Simpson Gallup only.

OIL CONS. DIV DIST. 3
JUN 09 2014

The Basin Dakota (71599) & the Simpson Gallup (56600) pools 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.

* DHC 3890 AZ

Production is proposed to be allocated based on the subtraction method using the Dakota projected

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

Electronic Submission #248228 verified by the BLM Well Information System
For BP AMERICA PRODUCTION CO, sent to the Farmington
Committed to AFMSS for processing by JIM LOVATO on 06/04/2014 (14JXL0216SE)

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

Signature (Electronic Submission) — Date 06/04/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JIM LOVATO — Title PETROLEUM ENGINEER — Date 06/04/2014

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD AV

Additional data for EC transaction #248228 that would not fit on the form

32. Additional remarks, continued

future decline. That production will serve as a base for production subtracted from the total production for the commingled well. The balance of the production will be attributed to the Simpson 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 including the contingency to P&A Dakota, wellbore schematics, and C-102 plats. NMOCD notified via C-103 form.

bp

GCU 230E

30-045-26010

Unit letter O Sec 23, Town 28N, Range 12W
San Juan, NM
Dakota and Simpson Gallup Formation

The purpose of this procedure is to outline the commingling of the Dakota and Simpson Gallup formations with a contingency to P&A the Dakota formation if excessive fishing is required beyond the economic limit.

Basic Job Procedure:

1. Pull rods
2. Pull short tubing string
3. Release long string packer
4. Pull long tubing string
    a. If unable to pull long string and fishing costs look to exceed the economic limit of the Dakota, proceed to ***Contingency to P&A the Dakota formation***
5. Cleanout well
6. Land tubing at ± 6,230'
7. Run pump and rods
8. Return well to production

Contingency to P&A the Dakota Formation Procedure:

5. Cut tubing at free point above packer (if not already done)
6. Set cement retainer at ± 5,920'
7. Sting into cement retainer and pump ± 15 bbls cement
8. Sting out of retainer and place ± 50' of cement on top
9. WOC
10. Circulate well clean to top of cement
11. Land tubing at ± 5,683'
12. Run pump and rods
13. Return well to production

Current Wellbore Diagram

GCU 230E

Current Wellbore bp

9.625" Csg TOC: Surface
Pump 360 cuft CL B - Ciculated

7" Csg TOC: Surface
Stage 1: pump 628 cuft 50/50 poz and tail w/ 118 cuft CL B; Stage 2: pump 1235 cuft 65/35 poz - circ to surface after both stages

7" Csg Squeeze: 3498 - 3500'
Squeeze with 59 cuft CL B neat

Formation Tops

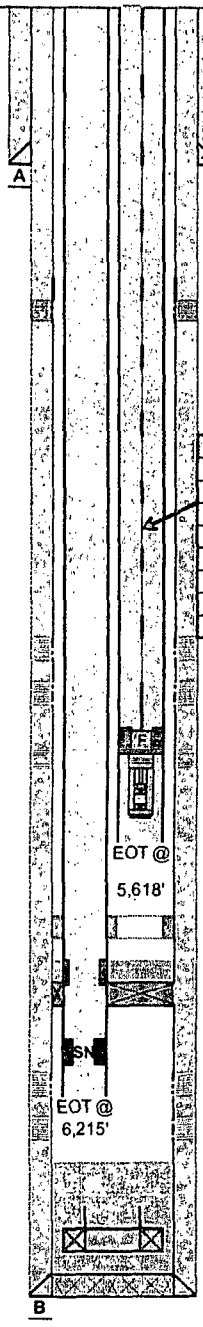
Ojo Alamo	150
Fruitland	1145
Pictured Cliffs	1570
Cliff House	3220
Menefee	3345
Point Lookout	3910
Gallup	5230
Dakota	6095

GALLUP Perfs
5471- 5524

5544- 5623
4 SPF, 528 shots, 0.49"
Frac w/ 80,000 gal 70Q foam and 130k# 20/40

DAKOTA Perfs
6106- 6116

6180- 6217
4 SPF, 188 shots, 0.5"
Frac w/ 65,814 gal 70Q foam and 104k# 20/40



Deviation Survey

Depth	Deviation
802	0.25
1370	0.5
2730	0.75
4581	1
5108	0.75

DV tool @ 3,497'

Component	Details	#
Polished rod	1.25" x 26'	1
Sucker Rods	0.875" x 25'	1
Pony Rod	0.875" x 4'	1
Pony Rod	0.875" x 8'	2
Sucker Rods	0.875" x 25'	69
Sucker Rods	0.75" x 25'	146
Sinker Bar	1.5" x 25'	6
RHAC Pump:	2" x 1.25" x 16'	1

F-Nipple at 5,598'

Baker Parallel Anchor @ 5634'

Otis Sliding Sleeve @ 5952'

Baker 47B4 Model A-3 Lockset Pkr at 5954'

Seating Nipple @ 6181'

Chem cut top of fish at 6257'

Fish: Retrievable BP x retr head x 5' of tbg

End of Prod Casing @ 6353'

FIELD	San Juan South				
WELL	GCU 230E				
COUNTY	San Juan, New Mexico				
API No.	30-045-26010				
RKB ELEVATION	5,784		SEC:	23	
GL ELEVATION	5,771		TOWN:	28N	
RKB-GL	13		RANGE:	12W	
Lat: 36.643388		Long: -108.077626			
DIRECTIONAL DATA					
MAX ANGLE	1.000	THRU	4,581		
KOP	N/A	TYPE	Vertical		
PRODUCTION DETAIL					
	SS Tubing	LS Tubing	Prod Casing		
SIZE	2 3/8 "	2 3/8 "	7 "		
WEIGHT	4.7ppf	4.7ppf	23ppf		
GRADE	J-55	J-55	K-55		
DEPTH	5,618'	6,215'	6,353'		
THREAD	8R EUE-Slim	8R EUE-Slim	8R ST+C		
I.D.	1.995"	1.995"	6.366"		
DRIFT	1.901"	1.901"	6.241"		
BURST	7700 PSI	7700 PSI	4360 PSI		
COLLAPSE	8100 PSI	8100 PSI	3270 PSI		
CAPACITY	0.0039 bbl/ft	0.004 bbl/ft	0.03937 bbl/ft		
# JOINTS					

PRODUCTION ASSEMBLY DETAIL				
#	O.D. IN	I.D. IN	LENGTH FT	Description
SS Tubing BHA				
1	2.375	1.780	0.90	F-Nipple
2	2.375	1.995	18.10	Pup Joint with Muleshoe
LS Tubing BHA				
1	5.375	2.250	1.00	Baker Parallel Anchor
2	2.375	1.995	316.98	Tubing Joints
3	3.090	1.875	2.850	Otis Sliding Sleeve
4	6.093	2.441	4.500	Baker 47B4 Model A-3 Lockset Packer
5	2.375	1.995	221.99	Tubing Joints
6	2.375	1.780	1.100	Seating Nipple
7	2.375	1.995	32.550	Tubing Joints

CASING DETAIL					
#	SIZE	WGHT	GRADE	THREAD	DEPTH
A	9 5/8	32.3	H-40	8R ST+C	312
B	7	23ppf	K-55	8R ST+C	6,353
C					
D					
E					
F					
G					

PRESSURE DATA			
BOTTOM HOLE PRESSURE			490 PSI
Estimated			
BOTTOM HOLE TEMPERATURE			184°F
Calculated			
Prepared by: Jacob Wendte			Date: 26-Dec-2013

Plug Back Total Depth:	6295	MD	6295	TVD	
Total Depth:	6353	MD	6353	TVD	

Spud: 10-6-1984 **Completed:** 11-8-1984 **Last Workover:** 4/29/2013

Proposed Wellbore Diagram

GCU 230E

9.625" Csg TOC: Surface
Pump 360 cuft CL B - Ciculated

7" Csg TOC: Surface
Stage 1: pump 628 cuft 50/50 poz and tail w/ 118 cuft CL B: Stage 2: pump 1235 cuft 65/35 poz - circ to surface after both stages

7" Csg Squeeze: 3498 - 3500'
Squeeze with 59 cuft CL B neat

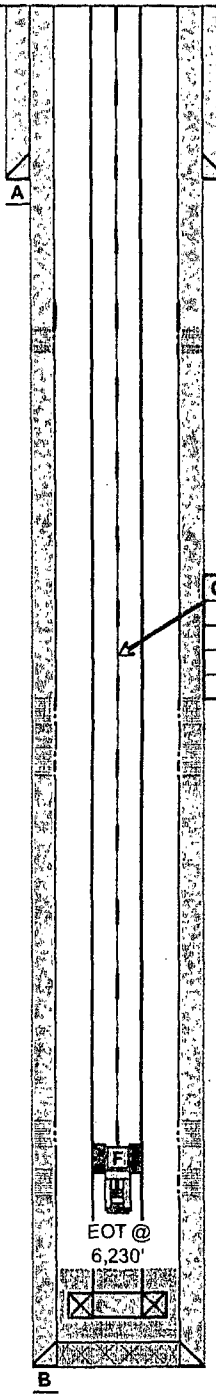
Formation Tops	
Ojo Alamo	150
Fruitland	1145
Pictured Cliffs	1570
Cliff House	3220
Menefee	3345
Point Lookout	3910
Gallup	5230
Dakota	6095

GALLUP Perfs
5471- 5524

5544- 5623
4 SPF, 528 shots, 0.49"
Frac w/ 80,000 gal 70Q foam and 130k# 20/40

DAKOTA Perfs
6106- 6116

6180- 6217
4 SPF, 188 shots, 0.5"
Frac w/ 65,814 gal 70Q foam and 104k# 20/40



Deviation Survey	
Depth	Deviation
802	0.25
1370	0.5
2730	0.75
4581	1
5108	0.75

DV tool @ 3,497'

Component	Details	#
Polished rod	1.25" x 26'	1
Sucker Rods	0.75" x 25'	± 236
Sinker Bar	1.5" x 25'	4
RHAC Pump:	2" x 1.25" x 16'	1

F-Nipple at 6,010'

Chem cut top of fish at 6257'
Fish: Retrievable BP x retr head x 5' of tbg

End of Prod Casing @ 6353'

Proposed Wellbore

FIELD	San Juan South		
WELL	GCU 230E		
COUNTY	San Juan, New Mexico		
API No.	30-045-26010		
RKB ELEVATION	5,784	SEC:	23
GL ELEVATION	5,771	TOWN:	28N
RKB-GL	13	RANGE:	12W
Lat: 36.643388		Long: -108.077626	

DIRECTIONAL DATA			
MAX ANGLE	1.000	THRU	4,581
KOP	N/A	TYPE	Vertical

PRODUCTION DETAIL	Tubing	Prod Casing
SIZE	2 3/8"	7 "
WEIGHT	4.7ppf	23ppf
GRADE	J-55	K-55
DEPTH	6,230'	6,353'
THREAD	8R EUE	8R ST+C
I.D.	1.995"	6.366"
DRIFT	1.901"	6.241"
BURST	7700 PSI	4360 PSI
COLLAPSE	8100 PSI	3270 PSI
CAPACITY	0.0039 bbl/ft	0.03937 bbl/ft
# JOINTS		

PRODUCTION ASSEMBLY DETAIL				
#	O. D.	I. D.	LENGTH	Description
	IN	IN	FT	
1	2.375	1.780	0.90	F-Nipple
2	2.375	1.995	20.00	20' tubing pup
3	2.375	1.995	1.00	Mule Shoe
4				
5				
6				
7				
8				
9				
10				
11				
12				

CASING DETAIL					
#	SIZE	WGHT	GRADE	THREAD	DEPTH
A	9 5/8	32.3	H-40	8R ST+C	312
B	7	23ppf	K-55	8R ST+C	6,353
C					
D					
E					
F					
G					

PRESSURE DATA	
BOTTOM HOLE PRESSURE	490 PSI
Estimated	
BOTTOM HOLE TEMPERATURE	184°F
Calculated	

Prepared by: Jacob Wendte | Date: 28-May-2014

Plug Back Total Depth:	6295	MD	6295	TVD	
Total Depth:	6353	MD	6353	TVD	

Spud: 10-6-1984 **Completed:** 11-8-1984 **Last Workover:** 4/29/2013

Contingency Wellbore Diagram

GCU 230E

Contingency Wellbore bp

9.625" Csg TOC: Surface
Pump 360 cuft CL B - Ciculated

7" Csg TOC: Surface
Stage 1: pump 628 cuft 50/50 poz and tail w/ 118 cuft CL B; Stage 2: pump 1235 cuft 65/35 poz - circ to surface after both stages

7" Csg Squeeze: 3498 - 3500'
Squeeze with 59 cuft CL B neat

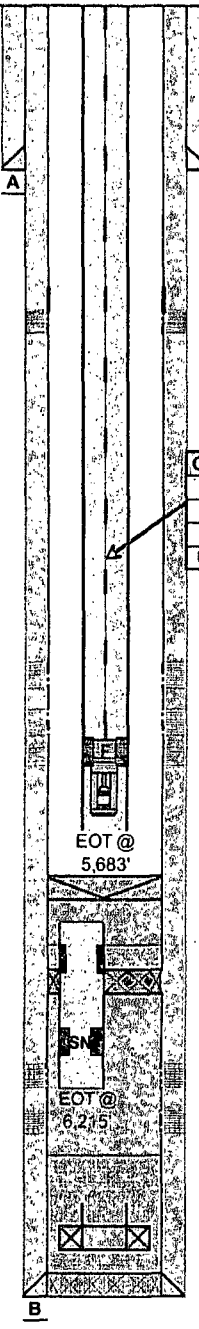
Formation Tops	
Ojo Alamo	150
Fruitland	1145
Pictured Cliffs	1570
Cliff House	3220
Menefee	3345
Point Lookout	3910
Gallup	5230
Dakota	6095

GALLUP Perfs
5471- 5524

5544- 5623
4 SPF, 528 shots, 0.49"
Frac w/ 80,000 gal 70Q foam and 130k# 20/40

DAKOTA Perfs
6106- 6116

6180- 6217
4 SPF, 188 shots, 0.5"
Frac w/ 65,814 gal 70Q foam and 104k# 20/40



Deviation Survey	
Depth	Deviation
802	0.25
1370	0.5
2730	0.75
4581	1
5108	0.75

DV tool @ 3,497'

Component	Details	#
Polished rod	1.25" x 26'	1
Sucker Rods	0.75" x 25'	± 222
Sinker Bar	1.5" x 25'	4
RHAC Pump:	2" x 1.25" x 16'	1

F-Nipple at 5,652'

Cement Retainer at ± 5920' w/ ± 50' of cement on top

Otis Sliding Sleeve @ 5952'
Baker 47B4 Model A-3 Lockset Pkr at 595

Seating Nipple @ 6181'

375
14.7632

Chem cut top of fish at 6257'
Fish: Retrievable BP x retr head x 5' of tbg

End of Prod Casing @ 6353'

FIELD	San Juan South		
WELL	GCU 230E		
COUNTY	San Juan, New Mexico		
API No.	30-045-26010		
RKB ELEVATION	5,784	SEC:	23
GL ELEVATION	5,771	TOWN:	28N
RKB-GL	13	RANGE:	12W
Lat: 36.643388	Long: -108.077626		

DIRECTIONAL DATA			
MAX ANGLE	1.000	THRU	4,581
KOP	N/A	TYPE	Vertical

PRODUCTION DETAIL	Prod Tubing	Fish Tubing	Prod Casing
SIZE	2 3/8 "	2 3/8"	7 "
WEIGHT	4.7ppf	4.7ppf	23ppf
GRADE	J-55	J-55	K-55
DEPTH	5,683'	6,215'	6,353'
THREAD	8R EUE-Slim	8R EUE-Slim	8R ST+C
I.D.	1.995"	1.995"	6.366"
DRIFT	1.901"	1.901"	6.241"
BURST	7700 PSI	7700 PSI	4360 PSI
COLLAPSE	8100 PSI	8100 PSI	3270 PSI
CAPACITY	0.0039 bbl/ft	0.004 bbl/ft	0.03937 bbl/ft
# JOINTS			

PRODUCTION ASSEMBLY DETAIL					
#	O. D.	I. D.	LENGTH	Description
	IN	IN	FT	
		Prod Tubing BHA		
1	2.375	1.780	0.90	F-Nipple
2	2.375	1.995	31.00	Tubing Joint with Muleshoe
		Fish Tubing BHA		
1	2.375	1.995	5.00	Cut Tubing Joint
2	3.090	1.875	2.850	Otis Sliding Sleeve
3	6.093	2.441	4.500	Baker 47B4 Model A-3 Lockset
4	2.375	1.995	221.99	Tubing Joints
5	2.375	1.780	1.100	Seating Nipple
6	2.375	1.995	32.550	Tubing Joints

CASING DETAIL					
#	SIZE	WGHT	GRADE	THREAD	DEPTH
A	9 5/8	32.3	H-40	8R ST+C	312
B	7	23ppf	K-55	8R ST+C	6,353
C					
D					
E					
F					
G					

PRESSURE DATA	
BOTTOM HOLE PRESSURE	490 PSI
Estimated	
BOTTOM HOLE TEMPERATURE	175°F
Calculated	

Prepared by: Jacob Wendte — Date: 26-Dec-2013

Plug Back Total Depth:	5870	MD	5870	TVD	
Total Depth:	6353	MD	6353	TVD	

Spud: 10-6-1984 **Completed:** 11-8-1984 **Last Workover:** 4/29/2013

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised July 16, 2010
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-26010	71599	Basin Dakota

[4] Property Code	[5] Property Name	[6] Well Number
000570	Gallegos Canyon Unit	230E

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	BP America Production Company	5771

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	23	28N	12W		1070	South	1630	East	San Juan

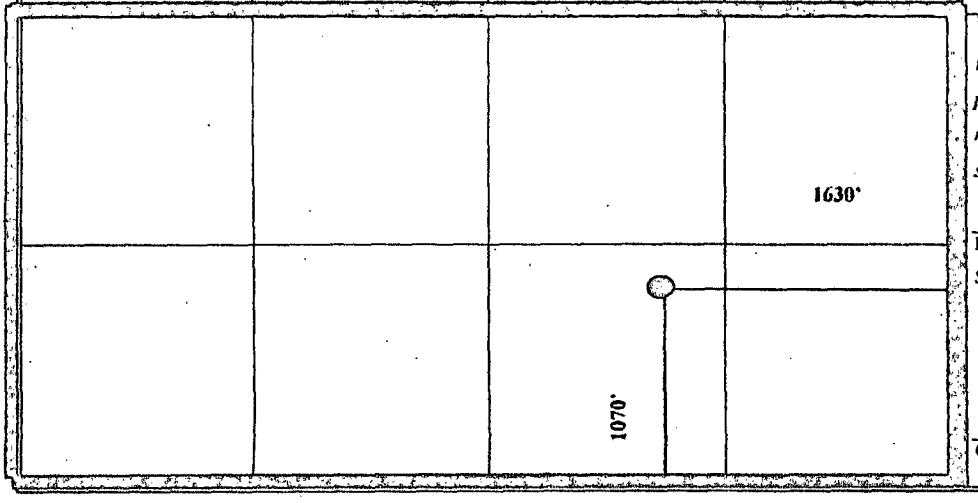
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			R-11567

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16



[17] 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.

Toya Colvin 04/04/2014
Signature Date

Toya Colvin
Printed Name

Toya.Colvin@bp.com
E-mail Address

[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 belief.

Date of Survey

Signature and Seal of Professional Surveyor:

Previously Filed

Certificate Number

OIL CONS. DIV DIST. 3

JUN 12 2014

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised July 16, 2010
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-26010	56600	Simpson Gallup

[4] Property Code	[5] Property Name	[6] Well Number
000570	Gallegos Canyon Unit	230E

[7] OGRID No.	[8] Operator Name	[9] Elevation
000778	BP America Production Company	5771

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	23	28N	12W		1070	South	1630	East	San Juan

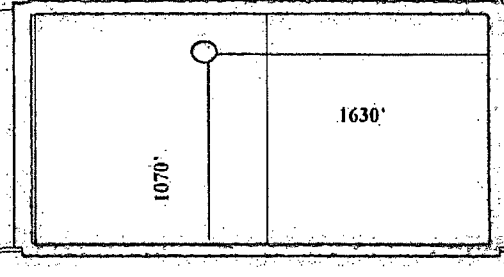
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
80			R-11567

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16



[17] 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.

Toya Colvin 6/12/14
Signature Date

Toya Colvin
Printed Name

Toya.Colvin@bp.com
E-mail Address

[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 belief.

Date of Survey

Signature and Seal of Professional Surveyor:

Previously Filed

Certificate Number