

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date:

Application Type:

☐ P&A ☐ Drilling/Casing Change ☒ Recomplete/DHC
☐ Location Change ☐ Other: _____

Well information:

API/WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf. Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-07228-00-00	GALLEGOS CANYON UNIT	176	BP AMERICA PRODUCTION COMPANY	G	A	San Juan	N	C	25	28	N	13	W

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations

Submit CBL for agencies review prior to perfing

NMOCD Approved by Signature

2-21-14
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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. 1149IND8471
2. Name of Operator BP AMERICA PRODUCTION CO		6. If Indian, Allottee or Tribe Name EASTERN NAVAJO
Contact: TOYA COLVIN E-Mail: Toya.Colvin@bp.com		7. If Unit or CA/Agreement, Name and/or No. 892000884F
3a. Address 200 ENERGY COURT FARMINGTON, NM 87401	3b. Phone No. (include area code) Ph: 281-366-7148	8. Well Name and No. GALLEGOS CANYON UNIT 176
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 25 T28N R13W NENW 0800FNL 2180FWL 36.638170 N Lat, 108.171560 W Lon		9. API Well No. 30-045-07228-00-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 Basin Mancos by setting a CIBP over the Dakota, establishing a steady rate of production from the Mancos, then remove the CIBP & downhole commingle production with the existing Basin Dakota.

The Dakota (71599) & the Basin Mancos (97232) 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 application 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 Dakota future decline. That production will serve as a base for production subtracted from the total production

RCVD FEB 19 '14
OIL CONS. DIV.
DIST. 3

DHC 3858 AZ

14. I hereby certify that the foregoing is true and correct. Electronic Submission #235652 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 02/18/2014 (14SXM1637SE)	
Name (Printed/Typed) TOYA COLVIN	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 02/14/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By STEPHEN MASON	Title PETROLEUM ENGINEER	Date 02/18/2014
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

Additional data for EC transaction #235652 that would not fit on the form

32. Additional remarks, continued

from the commingled well. The balance of the production will be attributed to the Basin Mancos.

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 schematics & C-102 plat. NMOCD notified via C-103



BP - San Juan Wellwork Procedure

GCU 176

30-045-07228

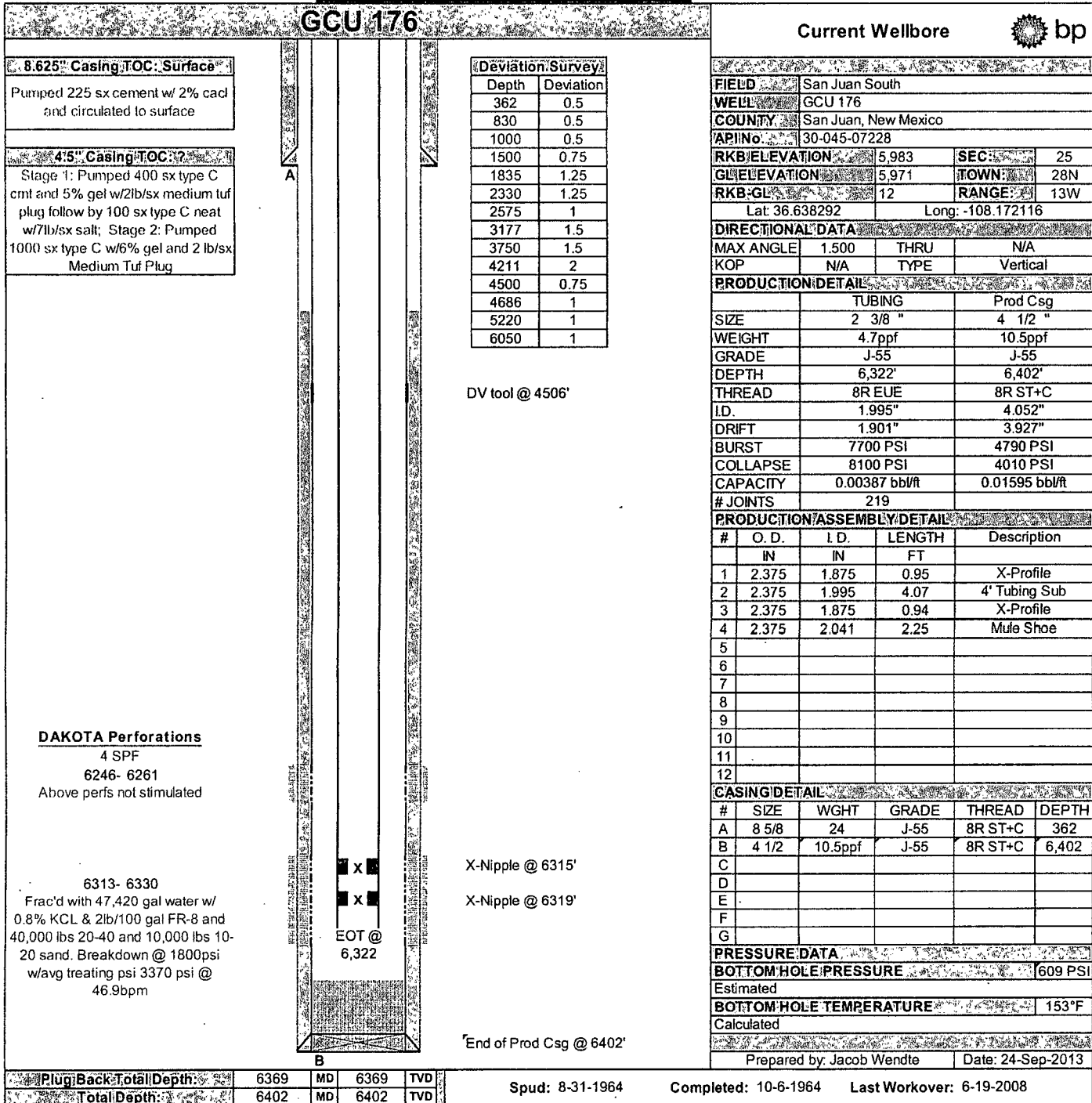
Unit letter C SEC. 25, T28N, R13W
San Juan, NM
Dakota Formation

The purpose of this procedure is to outline the isolation of the Dakota formation and completion of the lower Cha-Cha trend in the Gallup (Mancos).

Basic Job Procedure:

1. Pull tubing
2. Set CIBP at +/-6,200' to isolate Dakota formation
3. Pressure test CIBP and casing to verify integrity
4. Run CBL from the CIBP to surface.
5. Dump +/-20' of sand on CIBP
6. MIT wellbore
7. Recomplete to the Gallup (Mancos) with the following proposed perforations: +/-5696 - 5708'
8. Land tubing at +/-5,792' and produce well to obtain production data from lower Cha-Cha
9. Drill out CIBP and commingle Dakota and Gallup
10. Produce well

Current Wellbore Diagram



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Proposed Wellbore Diagram

GCU 176

Proposed Wellbore



8.625" Casing TOC: Surface

Pumped 225 sx cement w/ 2% cacl and circulated to surface

4.5" Casing TOC: ?

Stage 1: Pumped 400 sx type C crnt and 5% gel w/2lb/sx medium tuf plug follow by 100 sx type C neat w/7lb/sx salt; Stage 2: Pumped 1000 sx type C w/6% gel and 2 lb/sx Medium Tuf Plug

Deviation Survey

Depth	Deviation
362	0.5
830	0.5
1000	0.5
1500	0.75
1835	1.25
2330	1.25
2575	1
3177	1.5
3750	1.5
4211	2
4500	0.75
4686	1
5220	1
6050	1

DV tool @ 4506'

1/4" SS line banded (2 bands per jt) to tubing

Component	Details	#
Polished Rod	1.25" x 22'	1
Sucker Rods "D"	.75" x 25'	
Sinker Bar	1.25" x 25'	4
Pump:	2" x 1.25" x 14' RHAC	1

Lower Cha-Cha Perforations
± 5696 - 5708

DAKOTA Perforations
4 SPF
6246- 6261
Above perfs not stimulated

6313- 6330
Frac'd with 47,420 gal water w/ 0.8% KCL & 2lb/100 gal FR-8 and 40,000 lbs 20-40 and 10,000 lbs 10-20 sand. Breakdown @ 1800psi w/avg treating psi 3370 psi @ 46.9bpm

EOT @
± 6340

F-Nipple @ ± 6307'

'End of Prod Csg @ 6402'

FIELD	San Juan South		
WELL	GCU 176		
COUNTY	San Juan, New Mexico		
API No.	30-045-07228		
RKB ELEVATION	5,983	SEC	25
GL ELEVATION	5,971	TOWN	28N
RKB-GL	12	RANGE	13W
Lat: 36.638292		Long: -108.172116	

DIRECTIONAL DATA			
MAX ANGL	1.500	THRU	N/A
KOP	N/A	TYPE	Vertical

PRODUCTION DETAIL			
	TUBING	Prod Csg	
SIZE	2 3/8 "	4 1/2 "	
WEIGHT	4.7ppf	10.5ppf	
GRADE	J-55	J-55	
DEPTH	± 6340	6,402'	
THREAD	8R EUE	8R 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			

PRODUCTION ASSEMBLY DETAIL				
#	O. D.	I. D.	LENGTH	Description
	IN	IN	FT	
1	2.375	1.875	0.95	F-Profile
2	2.375	1.995	26.00	Pup jt w/0.25" weep hole
3	2.875	1.995	1.00	Injection Mandrel
4	2.375	1.995	4.00	4' pup
5	2.375	1.995	1.000	Mule Shoe
6				
7				
8				
9				
10				
11				
12				

CASING DETAIL					
#	SIZE	WGHT	GRADE	THREAD	DEPTH
A	8 5/8	24	J-55	8R ST+C	362
B	4 1/2	10.5ppf	J-55	8R ST+C	6,402
C					
D					
E					
F					
G					

PRESSURE DATA	
BOTTOM HOLE PRESSURE	609 PSI
Estimated	
BOTTOM HOLE TEMPERATURE	153°F
Calculated	
Prepared by: Jacob Wendte	Date: 24-Sep-2013

Plug Back Total Depth:	6369	MD	6369	TVD
Total Depth:	6402	MD	6402	TVD

Spud: 8-31-1964

Completed: 10-6-1964

Last Workover: 6-19-2008

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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 30-045-07228		² Pool Code 71599		³ Pool Name Basin Dakota	
⁴ Property Code 000570		⁵ Property Name Gallegos Canyon Unit			⁶ Well Number 176
⁷ OGRID No. 000778		⁸ Operator Name BP America Production Company			⁹ Elevation 5983

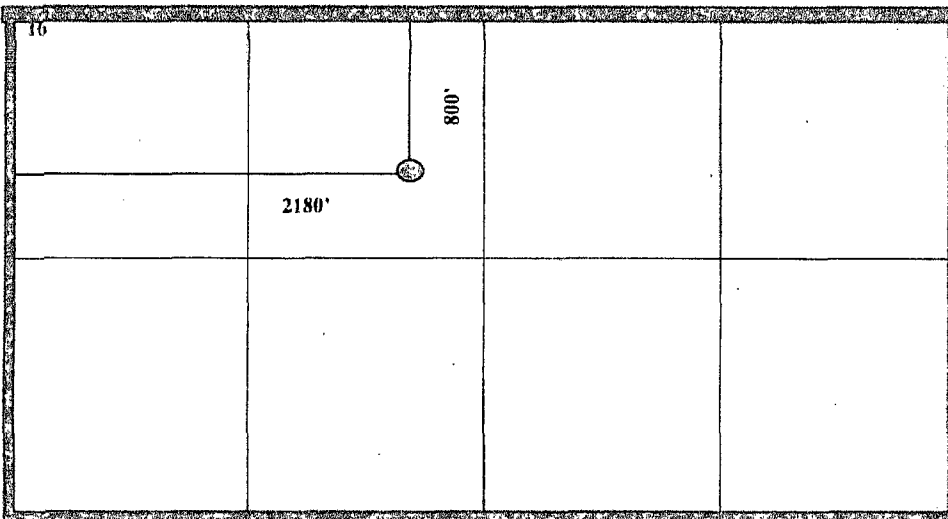
¹⁰ Surface Location

UL or lot no. C	Section 25	Township 28N	Range 13W	Lot Idn	Feet from the 800	North/South line North	Feet from the 2180	East/West line West	County San Juan
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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 320		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. R-11567		OIL CONS. DIV. DIST. 3	

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.

**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 released 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.

Tova Colvin 2/11/14
Signature Date

Tova Colvin
Printed Name

Tova.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

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

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Revised July 16, 2010

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-045-07228		² Pool Code 97232	³ Pool Name Basin Mancos
⁴ Property Code 000570	⁵ Property Name Gallegos Canyon Unit		⁶ Well Number 176
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company		⁹ Elevation 5983

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UL or lot no. C	Section 25	Township 28N	Range 13W	Lot Idn	Feet from the 800	North/South line North	Feet from the 2180	East/West line West	County San Juan
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OIL CONSERV. DIV.
DIST. 3

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	Signature: <u>Tova Colvin</u> Date: <u>2/11/14</u>	
	Printed Name: <u>Tova Colvin</u> E-mail Address: <u>Tova.Colvin@bp.com</u>	
	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: _____	