

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

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

David R. Catanach, 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:

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-25573-00-00	CHILDERS	001E	BP AMERICA PRODUCTION COMPANY	G	A	San Juan	F	B	1	31	N	11	W

Application Type:

- ☐ P&A ☐ Drilling/Casing Change ☐ Location Change
☐ Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84)
☒ Other: re-perforate and frac

Conditions of Approval:

If the perforations extend down past the existing perforations at 7325 a new completion report and C-104 will be required.

NMOCD Approved by Signature

8/31/15

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. NMSF078040
2. Name of Operator BP AMERICA PRODUCTION CO. Contact: TOYA COLVIN E-Mail: Toya.Colvin@bp.com	6. If Indian, Allottee or Tribe Name
3a. Address 200 ENERGY CT. FARMINGTON, NM 87401	7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 281.366.7148	8. Well Name and No. CHILDERS 1E
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 1 T31N R11W NWNE 1100FNL 1750FEL 36.931549 N Lat, 107.938049 W Lon	9. API Well No. 30-045-25573-00-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 type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Workover Operations
	<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 recompleat 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 recompleat 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 requests to re-perforate and hydraulically fracture the subject well in the Dakota formation.

Please see the attached procedure including wellbore diagrams and C-102 plat.

OIL CONS. DIV DIST. 3**AUG 12 2015**

14. I hereby certify that the foregoing is true and correct. Electronic Submission #311810 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO., sent to the Farmington Committed to AFMSS for processing by JACK SAVAGE on 08/07/2015 (15JWS0002SE)	
Name (Printed/Typed) TOYA COLVIN	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/06/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>JACK SAVAGE</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>08/07/2015</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 ****

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 30-045-25573		² Pool Code 71599	³ Pool Name Basin Dakota
⁴ Property Code 000372	⁵ Property Name Childers		⁶ Well Number 1E
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company		⁹ Elevation 6065

¹⁰ Surface Location

U/L or lot no. B	Section 1	Township 31N	Range 11W	Lot Idn	Feet from the 1100	North/South line North	Feet from the 1750	East/West line East	County San Juan
----------------------------	---------------------	------------------------	---------------------	---------	------------------------------	----------------------------------	------------------------------	-------------------------------	---------------------------

¹¹ Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320.59	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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>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.</i> Signature Date	
				Tova Colvin Printed Name Tova.Colvin@bp.com E-mail Address	
¹⁸ 				¹⁸ SURVEYOR CERTIFICATION <i>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.</i>	
				Date of Survey Signature and Seal of Professional Surveyor: Previously Filed Certificate Number	

Childers 001E

API # 30-045-25573-00

Location: B SEC. 01, T31N, R11W

San Juan County, New Mexico

Reason/Background for Job

The Childers 001E is a Dakota well that was drilled and completed in 1983. Both stages of the original stimulation on the Dakota screened out, and as a result, the well has had limited success compared to offset wells.

It is proposed to perforate and hydraulically fracture the Dakota formation. Expected production rates are 105 MCFD and 2 BWPD.

Basic Job Procedure

1. Pull tubing
2. Clean out to PBTD of 7368'
3. Perforate the Dakota from 7215' – 7327'
4. Fracture stimulate the Dakota
5. Unset packer(s) and pull tubing
6. Drill out composite plug(s)
7. Clean out to PBTD
8. Run tubing and production BHA
9. Return well to production

Current WBD



Childers 001E
DK
API # 30-045-25573
Unit B - Sec. 01 - T31N - R11W
San Juan, NM

Formation Tops

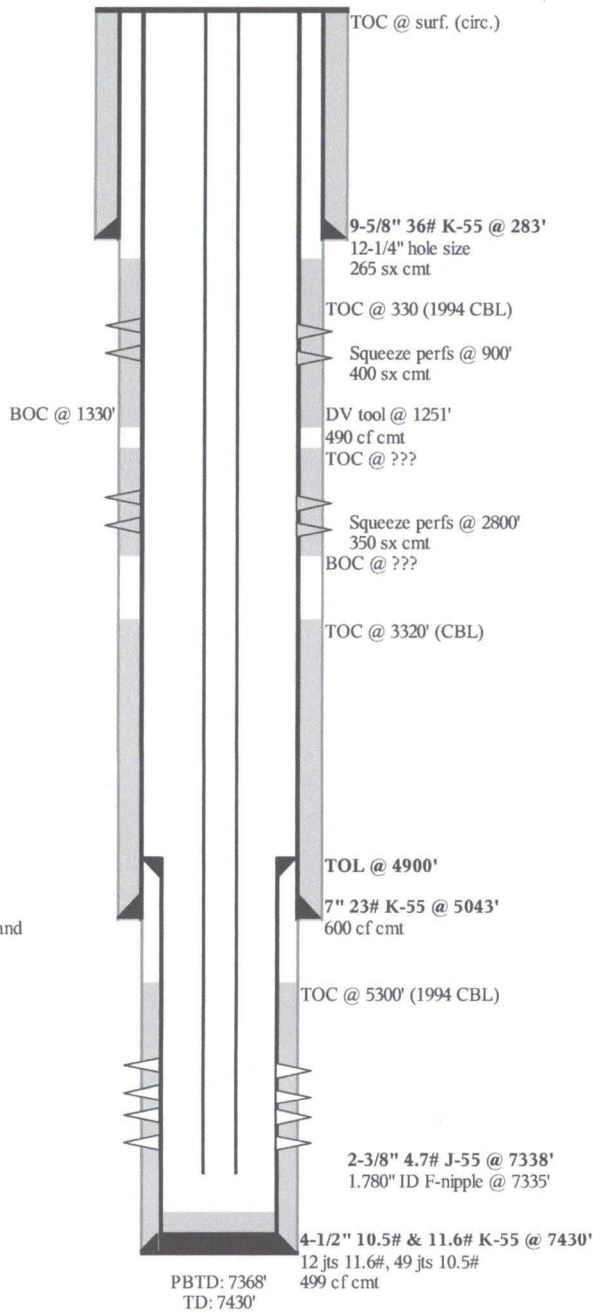
Ojo Alamo	1110
Kirtland	1240
Fruitland	2400
Pictured Cliffs	2850
Lewis	2940
Cliff House	4560
Menefee	4710
Point Lookout	5066
Mancos	5400
Gallup	6400
Greenhorn	7100
Graneros	7150
Dakota	7214

Dakota Perforations

7215' - 7234' 2 jsp
Acidized w/ 800 gal 15% HCl
Frac'd w/ 18k gal 30# XL gel & 4800# 20/40 sand
Frac screened out

7300' - 7325' 2 jsp
Acidized w/ 1000 gal 15% HCl
Frac'd w/ 40# XL gel & 40k# 20/40 sand
Frac screened out

GL: 6281'



Deviation Survey

Depth	Incl.
290	1.00
790	1.00
1291	1.25
1824	1.50
2326	0.75
2952	1.00
3452	1.25
3762	0.75
4264	1.00
4445	0.75
6472	2.50
6510	3.00
6620	0.75
6765	2.00
6890	2.25
6975	1.75
7131	1.75
7430	1.75

Proposed WBD



Childers 001E
DK
API # 30-045-25573
Unit B - Sec. 01 - T31N - R11W
San Juan, NM

GL: 6281'

Formation Tops

Ojo Alamo	1110
Kirtland	1240
Fruitland	2400
Pictured Cliffs	2850
Lewis	2940
Cliff House	4560
Menefee	4710
Point Lookout	5066
Mancos	5400
Gallup	6400
Greenhorn	7100
Graneros	7150
Dakota	7214

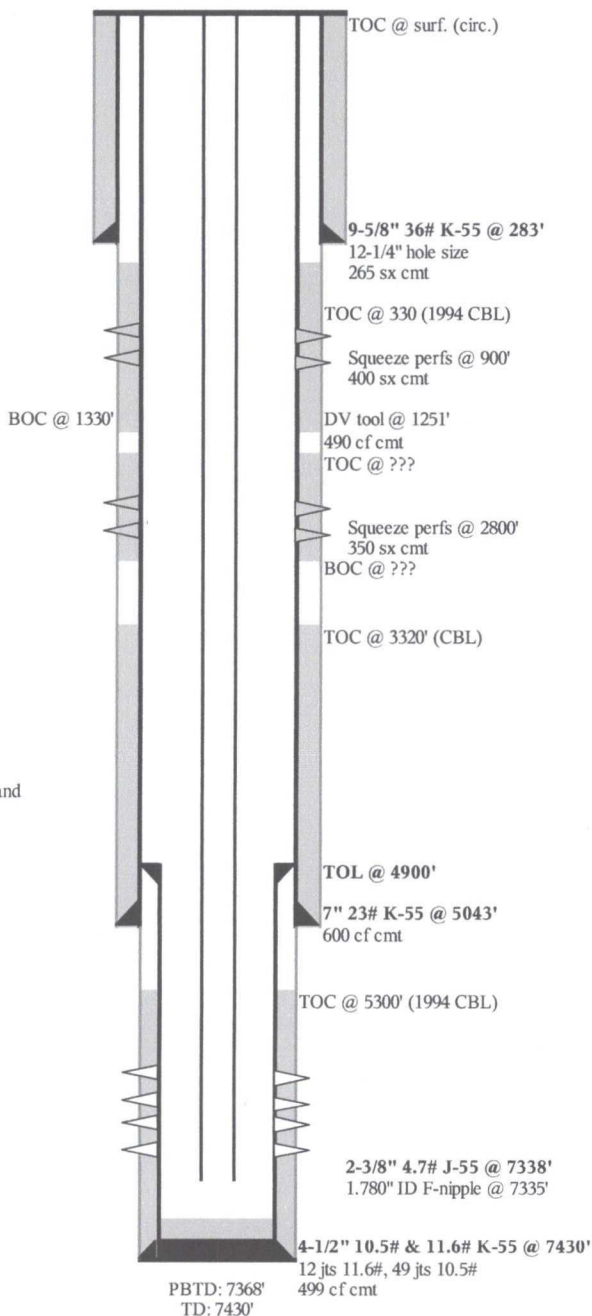
Dakota Perforations

7215' - 7234' 2 jspf
Acidized w/ 800 gal 15% HCl
Frac'd w/ 18k gal 30# XL gel & 4800# 20/40 sand
Frac screened out

7300' - 7325' 2 jspf
Acidized w/ 1000 gal 15% HCl
Frac'd w/ 40# XL gel & 40k# 20/40 sand
Frac screened out

7215' - 7266'
Frac'd in stage 2, 2015

7298' - 7327'
Frac'd in stage 1, 2015



Deviation Survey

Depth	Incl.
290	1.00
790	1.00
1291	1.25
1824	1.50
2326	0.75
2952	1.00
3452	1.25
3762	0.75
4264	1.00
4445	0.75
6472	2.50
6510	3.00
6620	0.75
6765	2.00
6890	2.25
6975	1.75
7131	1.75
7430	1.75