Form 3160-3 (August 1999)

RECEIVED |

FORM APPROVED OMB No. 1004-0136 Expires November 30, 200

	UNITED STATES) Chance Con	L	Expires Nove	ember 30, 2000
BUREAU	MENT OF THE INTERIO J OF LAND MANGEMEI R PERMIT TO DRILL (NT ama end (A A	4 10: 2 P	Lease Serial No. SF -	08097 080597
APPLICATION OF	R PERMIT TO DRILL	OR REENETER	6.	If Indian, Allottee or tri	be Name
la. Type of Work: X DRILL	REENT	070 வெர்க்கு© ER))), f 1/1/1 ₇ .	If Unit or CA Agreemen	nt, Name and No
1b. Type of Well: Oil Well NGas We	ll Gas Other	Single Zone X Multi	ple Zone 8.	Lease Name and Well N	
				Lorraine G	as Com 1M
Name of Operator BP America Product	tion Company At	tn: Mary Corley	9.	API Well No. 30-045	5-31891
3a. Address P.O. Box 3092 Houston, Texas 772		one No. (<i>include area code)</i> 281-366-4491	7.3	Field and Pool, or Exploasin Dakota & Bland	•
4. Loction of Well (Report location clearly	and in accordance with a	ny State requirements.*)	11	Sec., T., R., M., or Blk,	and survey or Area
At surface 2415' FSL & 1880' FW At proposed prod. Zone	L			K Sec. 26, T30	N, R08W
14. Distance in miles and direction from near		*	12./	•	13. State
23 mile 15. Distance from proposed*	s from Bloomfield, N	1		San Juan	New Mexico
Location to nearest Property or lease line, ft. (Also to nearest drig. Ujnit line, if any)	760	16. No. of Acres in lease	9 17. Spac	ing Unit dedicated to this	4.16
18. Distance from proposed location*		19. Proposed Depth	20. BLM	1/BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.	1200'	7274		WY29	24
21. Elevations (show whether DF, KDB., R7	, GL, etc.	22. Approximate date wor	k will start*	23. Estimated durat	tion
5901' GL		November 5, 2	2003	<u> </u>	7 Days
		24. Attachments			
 Well plat certified by a registered surveye A Drilling Plan. A Surface Use Plan (if the location is SUPO shall be filed with the appropriate 	or. on National forest System	4. Bond to co 20 above). 5. Operator co	over the operation ertification.	ons unless covered by an	existing bond on file (see Item
25. Signature	Name (P	Printed/typed) Mary Corley		Date 09/	/11/2003
Title Title					
		Senior Regulatory Analyst			
Approved by (Signature)	Name (Printed)	/Typed)		Date $10-2$	20-03
Title	Office				
Application approval does not warrant or certif Operations thereon. Conditions of approval, if any, are attached.	the applicant holds legal	or equitable title to those rights i	n the subject lea	se which would entitle th	e applicant to conduct
Title 18 II S.C. Section 1001 and title 43 II S.C.	Section 1212 make it a	crime for any person knowingly a	nd willfully to n	nake to any department o	r agency of the United States

*(Instructions on reverse)

DRUHNO OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

District I PO Box 1980, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102

District IV PO Box 2088, Sar	nta Fe, NM 8	7504-2088		5.		07501 2000				ENDED REPORT
		WE	LL LO	CATION	AND ACRI	EAGE DEDIC	ATION PLA	ΛT		
30-04	S 3	1891	715	2 Pool Cede	2319 19	AGIN DAKO	1 Pool 1	ANC		ESA JERDE
' Property Code ' Property Name / 32 00 Lorraine Gas Com										Well Number # 1M
00071	No. 193	IB	P AMI	ERICA	PRODUCT	Name 'ION COMPA	NY		'	5901
					10 Surface L	ocation			·	
UL or Lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/Wes		County
K	26	30 N	8 W		2415	SOUTH	1880	Wi	EST	SAN JUAN
1 17	Section	Township	11 Bott	om Hole	r	Different From	n Surface Feet from the	East/We	st line	County
⁷ UL or lot no.	Section	Township	Kange	Lot Idii	Feet from the	North/South line	rect non me			
Dedicated Acre	es ¹³ Join	nt or Infill 4	Consolidatio	n Code 15	Order No.		L			<u> </u>
NO ALLO	WABLE					ON UNTIL ALL I			EN CO	NSOLIDATED
		OR A	NON-S1		UNIT HAS B	EEN APPROVED			CED	WITT CA PRONT
							I hereby c	ertify that the complete to the	he informat	TIFICATION tion contained herein is my knowledge and belief.
							Printed by Title	MARY Gula 9.11	, lok tori, ls	Ley Analyst 103
	1880' —	-(26	<u> </u>		I hereby was plotte or under correct to	certify that to defrom field in my supervision the best of Augus Survey	he well loca notes of act ion, and that my belief. st 18, 2	
{ }			CT #7			9 21 25 68 4 Grims 3 070	A COST	150	016	URVEYOR
\$ }				}	16 41 18	143 SEB 15 N				NEW YORK

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANGEMENT**

ŧ	li-		Expi	res November 30, 2000	
2003	SEP	22	Lease Serial No.	SF - 080957	
		6	. If Indian, Allotte	e or tribe Name	

SUNDRY NOTICES AND REPORTS ON WELLS	2002 SEP 2/2 M 11: 49 SF-080957
Do not use this form for proposals to drill or to re-enter an Abandoned well. Use Form 3160-3 (APD) for such proposals.	6. If Indian, Allottee or tribe Name
	070 Farmington, NVI 7. If Unit or CA/Agreement, Name and/or No.
SUBMIT IN TRIPLICATE – Other instructions on re	
1. Type of Well	8. Well Name and No.
Oil Well 🛛 Gas Well 🕌 Other	Lorraine Gas Com 1M
2. Name of Operator BP America Production Company Attn: Mary Corley	
3a. Address P.O. Box 3092 Houston, TX 77253 3b. Phone No. (include area co. 281-366-449)	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2415' FSL & 1880' FEL Sec. 26 T30N, R08W	11. County or Parish, State San Juan County, New Mexico
12. CHECK APPROPRIATE BOX(ES) TO INDICATE	NATURE OR NOTICE, REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION
Acidize Deepen	Production (Start/Resume) Water shut-Off
Notice of Intent Alter Casing Fracture Tr	
Casing Repair New Cons	п. п. "′
Subsequent Report	
Change Plans Plug and A	bandon Water Disposal
Final Abandonment Notice Convert to Injection Plug Back	
Attach the Bond under which the work will be performed or provide the Bond I following completion of the involved operations. If the operation results in a mu	ce locations and measured and true vertical depths of all pertinent markers and zones. To on file with BLM/BIA. Required subsequent reports shall be filed within 30 days tiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once r all requirements, including reclamation, have been completed, and the operator has
14. I hereby certify that the foregoing is true an dcorrect Name (Printed/typed)	
Mary Corley	Title Senior Regulatory Analyst
Signature Illary Corley	Date 09/18/2003
THIS SPACE FOR FEDER	AL OR STATE OFFICE USE
Approved by /s/ David J. Mankiewicz	Title OCT 2 0 2003
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

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 witin its jurisdiction.

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Lorraine Gas Com

Lease: Lorraine Gas Com

County: San Juan

State: New Mexico Date: September 2, 2003 Well No: 1M

Surface Location: 26-30N-8W, 2415 FSL, 1880 FWL

Field: Blanco Mesaverde/Basin Dakota

OBJECTIVE: Drill 260' below the top of the Upper Two Wells (DKOT), set 41/2" production casing, Stimulate CH, MF, PL and DK intervals **METHOD OF DRILLING** APPROXIMATE DEPTHS OF GEOLOGICAL MARKER TYPE OF TOOLS **DEPTH OF DRILLING** Estimated GL: 5901 Estimated KB: 5915 0 - TD **MARKER** SUBSEA TVD. Rotary **LOG PROGRAM** Oio Alamo 4224' 1691' Kirkland 4145' 1770' Fruitland 3703 2212' **TYPE DEPTH INVERAL** Fruitland Coal 3469' 2446' Pictured Cliffs 3180' 2735' **OPEN HOLE** # Lewis Shale 3025' 2890' none Cliff House # 1678' 4238' Menefee Shale # 4565' 1350' # Point Lookout 953' 4963' **CASED HOLE** TDT - TD to 7" shoe Mancos 596' 5319' **GR-CCL-TDT** CBL Identify 4 1/2" cement top Greenhorn -988' 6903' Bentonite Marker -1042' 6957' # REMARKS: Two Wells -1099 7014' - Please report any flares (magnitude & duration). # -1201' Paquate 7116' # -1227' Cubero Upper 7142' # Cubero Lower -1253' 7168' TOTAL DEPTH -1359' 7274' # Probable completion interval * Possible Pay **SPECIAL TESTS DRILL CUTTING SAMPLES DRILLING TIME** DEPTH **TYPE** FREQUENCY DEPTH **FREQUENCY** 2990'-TD 10' 0-TD Geolograph

Approx.	. Interval	Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0	- 120dSO	Spud	8.6-9.2			-
120	- 2990 (1)	Water/LSND	8.6-9.2		<6	
2990	- 7274	Gas/Air/N2/Mist	Volume suff	icient to maint	ain a stable and clea	n wellbore

None REMARKS:

(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	2801 120	9 5/8"	H-40 ST&C	32#	13.5"	1
Intermediate 1	2990	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	7274	4 1/2"	J-55	11.6#	6.25"	3

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 100' into Lewis Shale
- (3) Bring cement 100' above 7" shoe

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 3-4 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:

Notify BLM/NMOCD 24 hours prior to Spud; BOP testing, and Casing and Cementing.

Form 46 Reviewed by: Logging program reviewed by: N/A PREPARED BY: APPROVED: DATE:

September 2, 2003 HGJ/MNP/JMP Version 4.0 Form 46 12-00 MNP

BP America Production Company BOP Pressure Testing Requirements

Well Name: Lorraine Gas Com

1M

County: San Juan

New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1691		
Fruitland Coal	2446		
PC	2735		
Lewis Shale	2890		
Cliff House	4238	500	0
Menefee Shale	4565		
Point Lookout	4963	600	0
Mancos	5319		
Dakota	7014	2600	1057

** Note: Determined using the following formula: ABHP - (.22*TVD) = ASP

Requested BOP Pressure Test Exception: 1500 psi

SAN JUAN BASIN Dakota Formation Pressure Control Equipment

Background

The objective Dakota formation maximum surface pressure is anticipated to be less than 1000 psi, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 psi. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 psi system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 psi rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Basin Dakota. No abnormal temperature, pressure, or H2S anticipated.

Equipment Specification

BOP Equipment

Below conductor casing to total depth 11" nominal or 7 1/16",3000 psi double ram preventer with rotating head.

All ram type preventers and related control equipment will be hydraulically tested to 250 psi (low pressure) and 2000 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.