Form 3160-3 (August 1999)

FORM APPROVED OMB No. 1004-0136 prices November 30, 20

| UNITED ST | | Expires (November 30, 2 | 000 | |
|--|---|--|-----------------|--|
| DEPARTMENT OF T BUREAU OF LAND N | | 5. Lease Serial No. SF - 078604-A | | |
| APPLICATION FOR PERMIT | TO DRILLY OR REENTER 2002 | 6. If Indian, Allottee or Tribe Name | 2 | |
| 1a. Type of Work: ☑ DRILL ☐ REENTER | | 7. If Unit or CA Agreement, Name | and No. | |
| 1b. Type of Well: ☐ Oil Well 🙍 Gas Well ☐ Oth | ner Single Zone Multiple Zone | Lease Name and Well No. JAQUEZ GAS COM F 1M | | |
| | CHERRY HLAVA E-Mail: hlavacl@bp.com | 9. API Well No. 30-045- | 31050 | |
| 3a. Address P.O. BOX 3092 HOUSTON, TX 77253 | 3b. Phone No. (include area code) Ph: 281.366.4081 Fx: 281.366.0700 | 10. Field and Pool, or Exploratory BASIN DAKOTA & BLANC | CO MESAVERD | |
| 4. Location of Well (Report location clearly and in accorda | nce with any State requirements.*) | 11. Sec., T., R., M., or Blk. and Sur | rvey or Arca | |
| At surface SESW Lot N 660FML 1685 | FWL | Sec 34 T32N R10W Mer N | IM P | |
| At proposed prod. zone | | | | |
| 14. Distance in miles and direction from nearest town or post of 12 MILES TO AZTEC NM | office* | 12. County or Parish SAN JUAN | 13. State NM | |
| 15. Distance from proposed location to nearest property or | 16. No. of Acres in Lease | 17. Spacing Unit dedicated to this v | well | |
| lease line, ft. (Also to nearest drig. unit line, if any) | 272.30 | 309.02 11 | | |
| 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed Depth | 20. BLM/BIA Bond No. on file | | |
| completed, applied for, on this lease, it. | 7462 MD | | | |
| 21. Elevations (Show whether DF, KB, RT, GL, etc. 6043 GL | 22. Approximate date work will start | 23. Estimated duration | | |
| | 24. Attachments | | | |
| The following, completed in accordance with the requirements of | of Onshore Oil and Gas Order No. 1, shall be attached to | this form: | | |
| Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on Nationa. Forest Syst SUPO shall be filed with the appropriate Forest Service Of | Item 20 above). Sem Lands, the 5. Operator certification | ons unless covered by an existing bond oformation and/or plans as may be requ | · | |

authorized officer.

| 25. Signature (Electronic Submission) | CHERRY HLAVA Chirry Hlava | Date 03/29/2002 |
|--|--|---|
| Title AUTHORIZED REPRESENTATIVE | J | |
| Approved by Signature Mankiewicz | Name (Printed/Typed) | Datc /2/02 |
| Title AFM | Office FF0 | |
| Application approval does not warrant or certify the applications thereon. | cant holds legal or equitable title to those rights in the subject lease w | hich would entitle the applicant to conduct |

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.

Additional Operator Remarks (see next page)

Electronic Submission #10953 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

East UNG OPERATIONS AUTHORIZED ARE THE STATE OF THE ATTACHED TO CONTRACT WITH ATTACHED TO THE TOTAL REQUIREMENTS".

This action is subject to technical and procedure, review pursuant to 43 OFR 3155.3 and appeal pursuant to 43 CFR 3165.4

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

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

PO Box 2088, Santa Fe, NM 87504-2088

District IV

State of New Mexico Energy, Minerais & Natural Resources Department

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

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

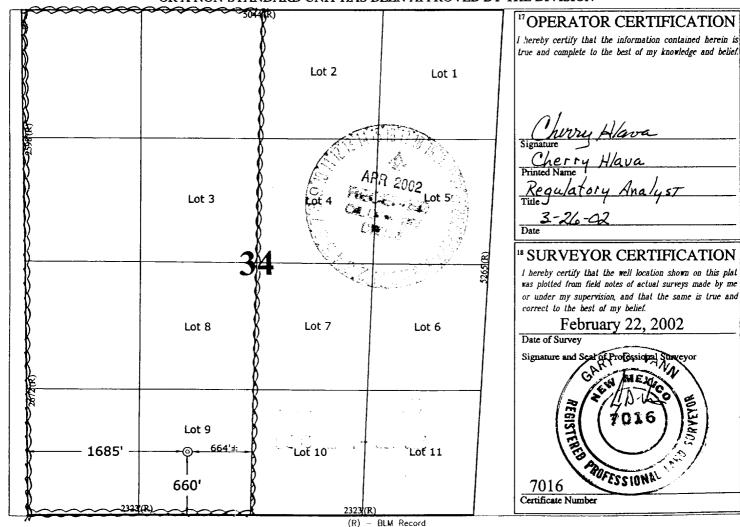
| ! | API Number | | ļ | 1 Pool Code | · | | Pool I | Name | / |
|---------------|------------|----------|-------|-------------|-----------------------|------------------|---------------|----------------|-----------|
| 3004 | 5-31 | 1050 | 72 | 319 £ 7. | 1599 I | Blanco Mesa | averde# | Basin Do | Kota |
| Property | Code | | | Well Number | | | | | |
| 000 72 | 25 | - | Jagu | ez (| Zas Con | r F | | | # / M |
| 1 OGRID | No. | | U | | | or Name | | | Elevation |
| 00077 | 18 | В | P AMI | ERICA | PRODUC | TION COMPA | NY | | 6043 |
| | | | | | 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 |
| N (Lot 9) | 34 | 32 N | 10 W | | 660 | SOUTH | 1685 | WEST | SAN JUAN |
| | | | 11 — | | | | | | |

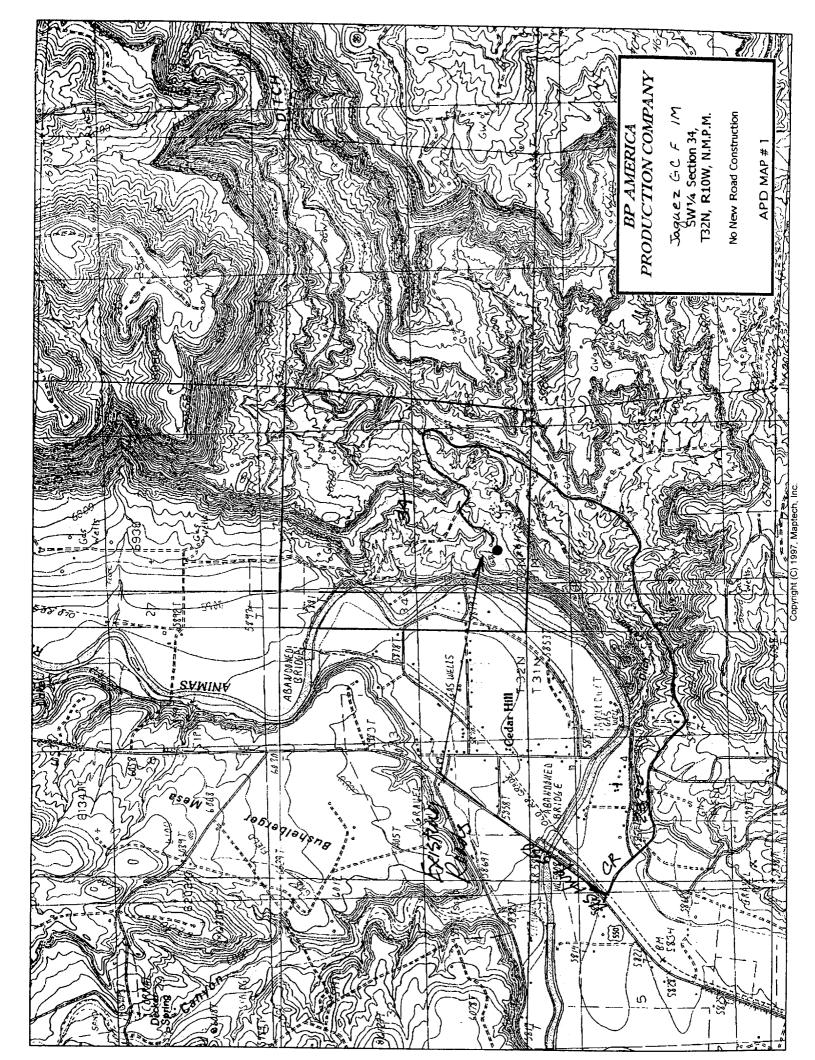
11 Bottom Hole Location If Different From Surface

| ⁷ 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 Join | at or Infill 14 | Consolidation | on Code 15 | Order No. | | | | |
| 309.02 | | | | | | | | | |

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





AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Jaquez GC F

Lease: Jaquez GC F

Well No: 1M

Surface Location: 34-32N-10W, 660 FSL,1685 FWL

Field: Blanco Mesaverde/Basin Dakota

County: San Juan
State: New Mexico
Date: March 26, 2002

| | arch 26, 2002 | _ | | | | | | |
|---|--|--|--|--|--|--|---|---------------------------------|
| OBJECTIVE: Drill 50' be | elow the base of | the Lower | Cubero, set 41/2" pro | duction casing, Stim | ulate LS, CH | , MF, PL an | d DK intervals | |
| | THOD OF DE | | | | | | | AL MARKER |
| TYPE OF TOOLS | Estimated | | | Estimated | | | | |
| Rotary | MARKER | | | IBSEA | MEAS. DEPT | | | |
| Total | Ojo Alamo | ` | | 4624 | 14 | | | |
| | Kirtland | | | 4388 | 16 | | | |
| | | | | Fruitland | | | 3807 | 22 |
| TYPE | DE | PTH INVE | ERAL | Fruitland Coa | ıl * | | 3567 | 24 |
| OPEN HOLE | | | | Pictured Cliffs | * | | 3198 | 28 |
| GR-Induction | | to 7" shoe to 7" shoe | | Lewis Shale | # | | 2975 | 30 |
| Density/Neutron | Cliff House | . # | | 1507 | 45 | | | |
| CACED HOLE | | | | Menefee Sha | | | 1286 | 47 |
| CASED HOLE GR-CCL-TDT | TD. | T – TD to | 7" shoe | Point Lookou Mancos | t # | | 951 563 | 51 54 |
| CBL | | | cement top | Greenhorn | | | -1133 | 71 |
| ODL | 100 | iidiy 1 /2 | comon top | Bentonite Ma | rker | | -1184 | 72 |
| REMARKS: | - | | | Two Wells | # | | -1254 | 73 |
| Please report any flares | s (magnitude 8 | k duration) |) . | Paguate | # | | -1318 | 73 |
| | | | | Upper Cubero | | | -1340 | 73 |
| | | | | Lower Cubero | | | -1355 | 74 |
| | | | | TOTAL DEPT | | | -1405 | 74 |
| | | | | # Probable co | | | * Possible | ` |
| | SPECIAL TE | STS | | DRILL CUT | | | | LING TIME |
| TYPE | | | | FREQUENC | | 1 | FREQUEN | |
| None | | | | none | Produc | tion hole | Geolograph | 1 0-TD |
| REMARKS: | | | | | | | | |
| MUD PROGRAM: | <u> </u> | | | | | | | |
| Approx. Interval | 1.7 | ype Mud | Weight, # | ga Vis, sec/qt | W/L cc | 's/30 min | Other | Specification |
| 0 - 200 | | | <u> </u> | s∝ Vis, sec/qt | WIL CO | 3/30 111111 | Other | Specification |
| | | | X K_U 7 | | | | | |
| 200 - 3182 | | pud Vater/I SN | 8.6-9.2 ND 8.6-9.2 | | <6 | | | |
| | (1) V | vater/LSN | ND 8.6-9.2 | sufficient to main | <6 | ale and cle | an wellhor | ·o |
| 3182 - 7462 | (1) V | | ND 8.6-9.2 | sufficient to mair | • | ole and cle | ean wellbor | re |
| 3182 - 7462 REMARKS: | (1) W G | vater/LSN as/Air/N2 | ND 8.6-9.2 2/Mist Volume | | ntain a stat | | | |
| 3182 - 7462 REMARKS: | (1) W G | vater/LSN as/Air/N2 | ND 8.6-9.2 2/Mist Volume | | ntain a stat | | | |
| 3182 - 7462 REMARKS: (1) The hole will requir | (1) W G re sweeps to | Vater/LSN as/Air/N/ keep unk | ND 8.6-9.2 2/Mist Volume paded while fresh | water drilling. L | et hole con | nditions di | ctate freque | ency. |
| 3182 - 7462 REMARKS: (1) The hole will requir CASING PROGRAM: Casing String | (1) W G re sweeps to | Vater/LSN Sas/Air/N2 keep unk lar goods a d Depth | ND 8.6-9.2 2/Mist Volume caded while fresh llocation letter specificating Size | water drilling. Les casing sizes to be | et hole con used. Hole Weight | nditions di sizes will be Hole Siz | ctate frequence by governed by ze Land | ency. |
| 3182 - 7462 REMARKS: (1) The hole will requir | (1) W G e sweeps to (Normally, tubul | Vater/LSN as/Air/N2 keep unk lar goods a | ND 8.6-9.2 2/Mist Volume caded while fresh llocation letter specificating Size | water drilling. Les casing sizes to be | et hole con | sizes will be Hole Siz | ctate frequence governed by ze Land 25" 1 | ency. |
| 3182 - 7462 REMARKS: (1) The hole will requir CASING PROGRAM: Casing String Surface/Conductor | (1) W G e sweeps to (Normally, tubul | Vater/LSN cas/Air/N2 keep unk lar goods a d Depth 200 3182 | ND 8.6-9.2 2/Mist Volume coaded while fresh llocation letter specifi | water drilling. Les casing sizes to be | et hole con used. Hole Weight | sizes will be Hole Sizes | governed by ze Land 25" 1,75" 1,2 | ency. |
| 3182 - 7462 REMARKS: (1) The hole will requir CASING PROGRAM: Casing String Surface/Conductor Intermediate | (1) W G e sweeps to (Normally, tubul | Vater/LSN Bas/Air/N2 keep unk lar goods a d Depth 200 | ND 8.6-9.2 2/Mist Volume coaded while fresh llocation letter specificating Size 9 5/8" | water drilling. Les casing sizes to be Grade H-40 ST&C | et hole con e used. Hole Weight 32# | sizes will be Hole Sizes | ctate frequence governed by ze Land 25" 1 | ency. Contract) ing Pt, Cmt, Et |
| 3182 - 7462 REMARKS: (1) The hole will requir CASING PROGRAM: Casing String Surface/Conductor Intermediate Production REMARKS: | (1) W G Te sweeps to (Normally, tubul Estimated | Vater/LSN cas/Air/N2 keep unk lar goods a d Depth 200 3182 | ND 8.6-9.2 2/Mist Volume coaded while fresh llocation letter specifi | water drilling. Les casing sizes to be Grade H-40 ST&C J/K-55 ST&C | et hole con used. Hole Weight 32# 20# | sizes will be Hole Sizes | governed by ze Land 25" 1,75" 1,2 | ency. Contract) ing Pt, Cmt, Et |
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| 3182 - 7462 REMARKS: (1) The hole will requir CASING PROGRAM: Casing String Surface/Conductor Intermediate Production REMARKS: (1) Circulate Cement to (2) Set casing 100' into | (1) W G re sweeps to (Normally, tubul Estimated o Surface o Lewis Shale | Vater/LSN cas/Air/N2 keep unk lar goods a d Depth 200 3182 7462 | ND 8.6-9.2 2/Mist Volume coaded while fresh llocation letter specifi | water drilling. Les casing sizes to be Grade H-40 ST&C J/K-55 ST&C | et hole con used. Hole Weight 32# 20# | sizes will be Hole Sizes | governed by ze Land 25" 1,75" 1,2 | ency. Contract) ing Pt, Cmt, Et |
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BP America Production Company **BOP Pressure Testing Requirements**

Well Name: Jaquez GC F

County: San Juan

State: New Mexico

| Formation | TVD | Anticipated Bottom Hole Pressure | Maximum Anticipated Surface Pressure ** |
|----------------|------|-------------------------------------|---|
| Ojo Alamo | 1433 | | |
| Kirtland | 1669 | | |
| Fruitland | 2250 | | |
| Fruitland Coal | 2490 | | |
| PC · | 2859 | | |
| Lewis Shale | 3082 | | |
| Cliff House | 4550 | 500 | 0 |
| Menefee Shale | 4771 | | |
| Point Lookout | 5106 | 600 | 0 |
| Mancos | 5494 | | |
| Dakota | 7311 | 2600 | 1391 |

** 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

Interval

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.