FORM APPROVED

| (August 1999)  UNITED ST  DEPARTMENT OF T  BUREAU OF LAND N   | HE INTERIOR   | OMB No. 1004-01<br>Expires November 30,                                      |                  |
|---|---|--|------------------|
| BUREAU OF LAND  | 40 0 T 2 D S  | SF - 078096  |                  |
| APPLICATION FOR PERMIT  | TO DRILL OR REENTER                                       | 6. If Indian, Allottee or Tribe Nam  | ne               |
| 1a. Type of Work:  ☐ DRILL ☐ REENTER  | 01 01 00 mg   | 7. If Unit or CA Agreement, Nam  | ie and No.       |
| lb. Type of Well: ☐ Oil Well     Gas Well   ☐ Oth   |   | 8. Lease Name and Well No.<br>MUDGE LS 7 N                                   |                  |
| 2. Name of Operator Contact:<br>BP AMERICA PRODUCTION COMPANY   | CHERRY HLAVACL@BP.COM                                     | 9. API Well No. 30-045   | 5-3276           |
| 3a. Address   | 3b. Phone No. (include area code)  Ph: 281-366-4081       | 10. Field and Pool, or Exploratory BASIN DK & BLANCO M                       |                  |
| – HOUSTON, TX 77253-3092  | 201 000 1001  |  | . •              |
| 4. Location of Well (Report location clearly and in accorded  | ance with any State requirements.*)                       | 11. Sec., T., R., M., or Blk. and S  | Survey or Area   |
| At surface NESW 1945FSL 1805FWL   | . 36.88222 N Lat, 107.96333 W Lon                         | Sec 23 T31N R11W Mer   | NMP              |
| At proposed prod. zone NESW 1945FSL 1805FWL   | . 36.88222 N Lat, 107.96333 W Lon                         | K  |                  |
| <ol> <li>Distance in miles and direction from nearest town or post</li> <li>MILES NORTH FROM AZTEC, NM</li> </ol>   | office*   | 12. County or Parish<br>SAN JUAN   | 13. State<br>NM  |
| 15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)  | 16. No. of Acres in Lease                                 | 17. Spacing Unit dedicated to this   | s well           |
| 1945  | 320.00  | 320.00 W)  |                  |
| <ol> <li>Distance from proposed location to nearest well, drilling,<br/>completed, applied for, on this lease, ft.</li> </ol>   | 19. Proposed Depth  | 20. BLM/BIA Bond No. on file   |                  |
| 600   | 7048 MD<br>7048 TVD                                       | YW2924   |                  |
| 21. Elevations (Show whether DF, KB, RT, GL, etc. 5780 GL   | 22. Approximate date work will start 02/15/2004           | 23. Estimated duration 7   |                  |
|   | 24. Attachments   |  |                  |
| The following, completed in accordance with the requirements  | of Onshore Oil and Gas Order No. 1, shall be attached to  | this form:   |                  |
| <ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of</li> </ol> | tem Lands, the Item 20 above).  5. Operator certification | ons unless covered by an existing bo<br>formation and/or plans as may be re- |                  |
| 25. Signature<br>(Electronic Submission)  | Name (Printed/Typed) CHERRY HLAVA Ph. 281-366-4081        | Da<br>1.   | nte<br>2/15/2004 |
| Title<br>AGENT  |   |  |                  |
| Approved by (Signature)   | Name (Printed/Typed)                                      | Da   | ite { }          |
| Title   | Office  |  |                  |

Application approval does not warfant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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 #51910 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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

PO Box 2088, Santa Fe, NM 87504-2088

District IV

UL or Lor No.

State of New Mexico Energy, Minerals & 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

County

Feet from the

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

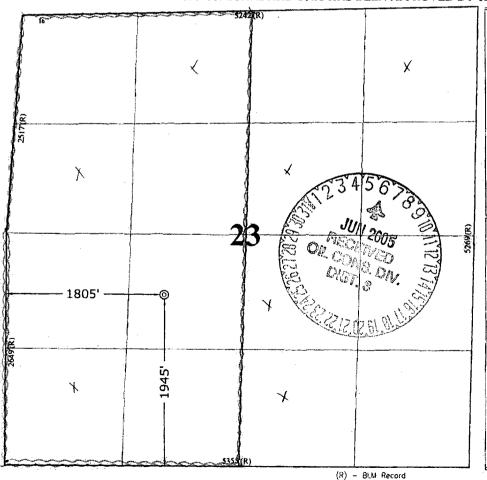
| 30-045-32     | 7/69 7/599: 723/9 | Basin Datota Blanc                    | o Mesaverde   |
|---------------|-------------------|---------------------------------------|---------------|
| Property Code | 3 1               | Property Name                         | • Well Number |
| 000 911       | Mudge LS          |                                       | # 7N          |
| OORID No.     | *                 | Operator Name                         | * Elevation   |
| 000778        | BP AMERICA PROD   | UCTION COMPANY                        | 5780          |
|               | - 10              | · · · · · · · · · · · · · · · · · · · |               |

**Surface Location** North/South line

Feet from the

| K  | 23                   | 31 N          | 11 W          |           | 1945          | SOUTH            | 1805          | WEST           | SAN JUAN |  |
|--|----------------------|---------------|---------------|-----------|---------------|------------------|---------------|----------------|----------|--|
| " 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   |  |
|  |                      |               |               |           |               |                  |               |                |          |  |
| Dedicated Acre                                   | niol <sup>ti</sup> 2 | t or Infill # | Consolidation | on Code 🥳 | Order No.     |                  |               |                |          |  |
| 320  |                      | ļ             |               |           |               |                  |               |                |          |  |

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



Range

Lot Idn

"OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. **SURVEYOR CERTIFICATION** I hereby certify that the well location shown on this plat was pholted 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. September 7, 2004 Signature and S

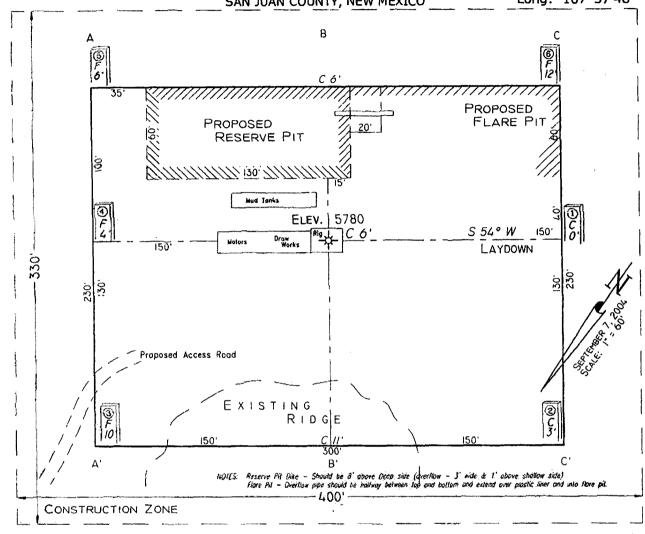
| Submit 3 Copies To Appropriate District<br>Office<br>District I                  | State of l<br>Energy, Minerals                           |                              |  | Form C-103<br>March 4, 2004  |  |  |  |
|--|--|------------------------------|--|--|--|--|--|
| 1625 N. French Dr., Hobbs, NM 88240  | WELL API NO.   |                              |  |  |  |  |  |
| District II<br>1301 W. Grand Ave., Artesia, NM 88210                             | OIL CONSERV  |                              | -  | New Well  5. Indicate Type of Lease  |  |  |  |
| District III 1000 Rio Brazos Rd., Aztec, NM 87410                                | 1220 South   |                              |  | STATE FEE  |  |  |  |
| District IV  | Santa Fe   | 6. State Oil & Gas Lease No. |  |  |  |  |  |
| 1220 S. St. Francis Dr., Santa Fe, NM<br>87505                                   |  |                              |  |  |  |  |  |
| SUNDRY NOT<br>(DO NOT USE THIS FORM FOR PROP                                     | TICES AND REPORTS ON                                     |                              | IG BACK TO A                                   | 7. Lease Name or Unit Agreement Name  Mudge LS   |  |  |  |
| DIFFERENT RESERVOIR. USE "APPL   |  |                              |  | (Federal well SF 078096)   |  |  |  |
| PROPOSALS.)  1. Type of Well:  |  |                              |  |  |  |  |  |
| Oil Well Gas Well  | ] Other [  |                              |  | 8. Well Number<br>7 N  |  |  |  |
| 0. 1   |  |                              | <u> </u>                                       |  |  |  |  |
| 2. Name of Operator BP AMERICA PRODUCTION  | CO   |                              |  | 9. OGRID Number<br>000778  |  |  |  |
| 3. Address of Operator   |  |                              |  | 10. Pool name or Wildcat   |  |  |  |
| P.O. BOX 3092 HOUSTON, TX  | K 77079-2064   |                              |  | Basin Dk & Blanco MV   |  |  |  |
| 4. Well Location   |  |                              |  |  |  |  |  |
| Unit Letter K: 19  | 45 feet from the South                                   | _ line and                   | _1805feet f                                    | rom the West line  |  |  |  |
| Section 23   | Township 31N   |                              | Range 11W                                      | NMPM SAN JUAN County   |  |  |  |
|  | 11. Elevation (Show wh                                   | ether DR,<br><b>5780'</b>    |  | 。<br>1982年第18日本新年第18日本   |  |  |  |
| Pit or Below-grade Tank Application (F   | or pit or below-grade tank closu                         |                              |  | D  |  |  |  |
| Pit Location: UL K Sect 23 Tw  | 31N_Rng_11W_Pit type_D                                   | Prilling_Dep                 | oth to Groundwater ≥1                          | 00' Distance from nearest fresh water well <5000'  |  |  |  |
| Distance from nearest surface water_*  | * < 100' Below-grade Tank Loc                            | ation UL_G                   | Sect <u>23 Twp 31N</u>                         | Rng 11W ;  |  |  |  |
| 1495'_feet from the _South_ line and 16  | 20_feet from the _WEST_line                              | **This we                    | ell is in the drainage lo                      | eading to the Animas River   |  |  |  |
|  |  |                              |  |  |  |  |  |
| 12. Check  | Appropriate Box to In-                                   | dicate Na                    | ature of Notice,                               | Report or Other Data   |  |  |  |
|  | NTENTION TO:   |                              |  | SEQUENT REPORT OF:   |  |  |  |
| PERFORM REMEDIAL WORK  | PLUG AND ABANDON   |                              | REMEDIAL WORK                                  |  |  |  |  |
| TEMPORARILY ABANDON  | CHANGE PLANS   |                              | COMMENCE DRIE                                  | LLING OPNS. PLUG AND ABANDONMENT   |  |  |  |
| PULL OR ALTER CASING   | MULTIPLE COMPLETION                                      |                              | CASING TEST AN<br>CEMENT JOB                   | ID 🗆   |  |  |  |
| OTHER: LINED DRILLING PIT P  | ERMIT  | $\boxtimes$                  | OTHER:   |  |  |  |  |
| 13. Describe proposed or com   | pleted operations. (Clearly                              | state all p                  | ertinent details, and                          | give pertinent dates, including estimated date   |  |  |  |
|  | ork). SEE RULE 1103. F                                   | or Multiple                  | e Completions: Att                             | ach wellbore diagram of proposed completion  |  |  |  |
| or recompletion.  Please reference BP America's S                                | an Juan Basin Drilling/W                                 | orkover P                    | it Construction Pla                            | an on file with the NMOCD. Drilling pit  |  |  |  |
| Construction Plan issued date of   |  |                              |  |  |  |  |  |
|  |  |                              |  |  |  |  |  |
|  |  |                              |  |  |  |  |  |
| I hereby certify that the information grade tank has been/will be constructed of | above is true and complet<br>r closed according to NMOCD | e to the be<br>guidelines [  | st of my knowledge<br>], a general permit [] ( | e and belief. I further certify that any pit or below-<br>or an (attached) alternative OCD-approved plan . |  |  |  |
| SIGNATURE  |  | TI                           | TLE_Regulatory A                               | Analyst DATE 12/14/04  |  |  |  |
| Type or print name Cherry Hlava  | E-mai  | il address:                  |  | Telephone No. 281-366-4081   |  |  |  |
| (This space for State use)   | Α  |                              |  |  |  |  |  |
| APPPROVED BY   | 1/m T  | Themy                        | OH & GOE IONER                                 | DATE - 6 2005  |  |  |  |
| Conditions of approval, if any:  |  |                              | THE CITY WALL                                  | CTON, DIST. &B   |  |  |  |

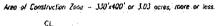
& PROFILE 64+ 36.88×22
TION COMPANY 600 107.96333

#### PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Mudge LS #7N

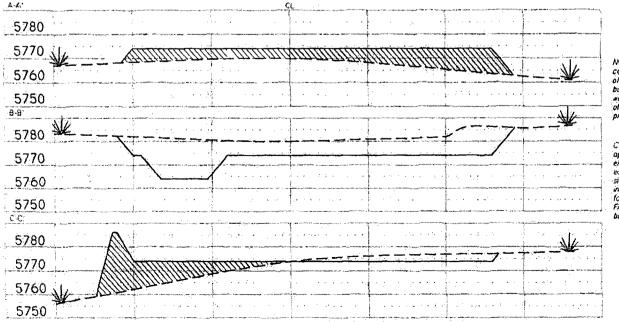
Mudge LS #7N 1945' F/SL 1805' F/WL SEC. 23, T31N, R11W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

Lat: 36°52'56" Long: 107°57'48"





SCALE: 1'=60'-HORIZ.



NOTE: Contractor should call One-Call for location of mored or unconted buried pipelines or cables on well pod and/or access road of least two (2) working days prior to construction.

Cuts and fills shown are approximate - final finished elevation is to be adjusted so earthweir will belease. Corner stokes are approximate and do not include additional areas needed for sidesposes and drainages. Final Pad Dimensions are to be verified by Contractor.

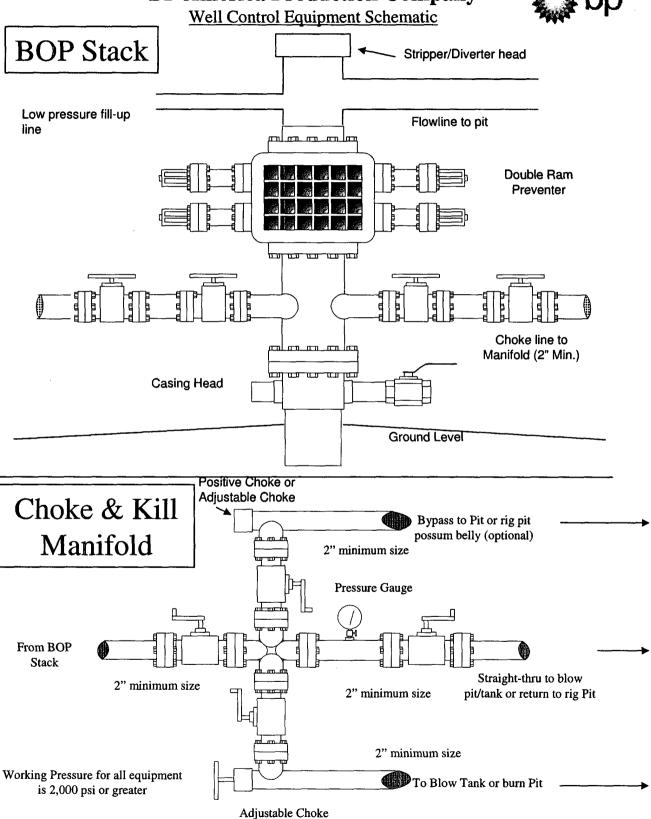
VANN SURVEYS P. O. Box 1306 Farmington, NM

|   |                                       |                                    |                | BP AM         | ERICA PRO            | DUCTIO   | N C      | ON       | 1PA           | ANY             |                                       |                 |                 |  |
|---|---------------------------------------|------------------------------------|----------------|---------------|----------------------|--|----------|----------|---------------|-----------------|---------------------------------------|-----------------|-----------------|--|
|   |                                       |                                    |                | DRIL          | LING AND CO          | <b>OMPLETIO</b><br>/8/2004                       | N PR     | ROG      | RAJ           | А               |                                       |                 |                 |  |
|   | MudaalC                               |                                    |                | Wall          |                      |  |          |          |               | Field:          | Planco M                              | ongword         | e/Basin Dakota  |  |
|   | Mudge LS                              |                                    |                |               |                      | : EQI  | 1905     | · E\A/   |               | DIATICO IVI     | esaveiu                               | e/Dasiii Dakula |                 |  |
| Minerals:   | · · · · · · · · · · · · · · · · · · · | New Mexico Surface Location: 23-31 |                |               |                      | 36.8821264                                       |          |          |               |                 |                                       |                 |                 |  |
| Rig:  | Aztec 184                             |                                    |                | B             | H Location: sam      |  | Luigi    | 107.5    | <u> </u>      | -               | ·                                     |                 |                 |  |
| OBJECTIVE:  | A216C 104                             |                                    | rill 250' belo |               | the Two Wells Mb     |  | roductio | on ca    | sina          | Stimulate D     | K ME and F                            | 21 inten        | ale             |  |
| ODOLO IIVE.   | L R                                   |                                    | DD OF DRIL     |               | the two wone we      |  | ****     |          |               | DEPTHS OF       |                                       |                 |                 |  |
| TVDE  | OF TOOLS                              |                                    | JU OF DRIL     |               | DRILLING             | Actua  |          | 578      |               |                 | Estimated K                           |                 |                 |  |
|   | Rotary                                |                                    |                |               | TD                   | Marker   | J GL.    | T        | _             | SUBSE           |                                       | VD              | APPROX. MD      |  |
|   | - Total y                             | 10                                 | G PROGRA       |               | <del></del>          | Ojo Alamo  |          | ┰        | _             | 4,558'          |                                       | 236'            | 1,236'          |  |
| Туре  |                                       |                                    |                | epth Interv   |                      | Kirtland   |          |          |               | 4,519'          |                                       | 275'            | 1,275'          |  |
| Single F  | Run                                   |                                    |                | opui iiitei i | 7.01                 | Fruitland  |          |          | *             | 3,947'          | <del></del>                           | 847'            | 1,847'          |  |
| Ongie i   | 1411                                  |                                    |                |               |                      | Fruitland Co                                     | al       |          | *             | 3,713'          |                                       | 081'            | 2,081'          |  |
|   |                                       |                                    |                |               |                      | Pictured Clif                                    |          | -+       | *             | 3,357           |                                       | 437'            | 2,437'          |  |
|   |                                       |                                    |                |               |                      | Lewis  |          |          | •             | 3,158'          |                                       | 636'            | 2,636'          |  |
| Cased H   | lole                                  |                                    |                |               |                      | Cliff House                                      |          | 一十       | #             | 1,886'          |                                       | 908'            | 3,908'          |  |
| TDT- C  |                                       |                                    |                | TD to 7" sho  | De .                 | Menefee  |          | $\dashv$ | #             | 1,558'          |                                       | 236'            | 4,236'          |  |
|   |                                       | <u> </u>                           |                | fy 4 ½" cem   | <del></del>          | Point Looko                                      | ut       |          | #             | 1,146'          |                                       | 648'            | 4,648'          |  |
| REMARKS:  |                                       |                                    |                | ,             |                      | Mancos   |          | 一十       |               | 754'            |                                       | 040'            | 5,040'          |  |
| - Please report   | any flares (                          | magn                               | itude & dura   | ion).         | <del>-</del>         | Greenhorn  |          |          |               | -895'           |                                       | 689'            | 6,689'          |  |
| •   | - '                                   | -                                  |                | •             |                      | Graneros (b                                      | ent,mkı  | r)       |               | -946'           |                                       | 740'            | 6,740'          |  |
|   |                                       |                                    |                |               |                      | Two Wells  |          | 一十       | #             | -1,004'         |                                       | 798'            | 6,798'          |  |
|   |                                       |                                    |                |               |                      | Paguate  |          | 1        | #             | -1,082'         |                                       | 876'            | 6,876'          |  |
|   |                                       |                                    |                |               |                      | Cubero   |          | Ť        | #             | -1,119'         | 6,                                    | 913'            | 6,913'          |  |
|   |                                       |                                    |                |               |                      | L. Cubero  |          |          | #             | -1,164'         | 6,                                    | 958'            | 6,958'          |  |
|   |                                       |                                    |                |               |                      | <b>Encinal Cyn</b>                               |          |          | #             | -1,215'         | 7,                                    | 009'            | 7,009'          |  |
|   |                                       |                                    |                |               |                      | TOTAL D  | EPTH:    | : [      |               | -1,259'         | 7,                                    | 048'            | 7,048'          |  |
|   |                                       |                                    |                |               |                      | # Probable completion interval * Possible Pay    |          |          |               |                 | Pay                                   |                 |                 |  |
| SPECIAL TEST  | 'S                                    |                                    |                |               |                      | DRILL CUTTING SAMPLES DRILLING TIM               |          |          |               |                 | G TIME                                |                 |                 |  |
| TYPE  |                                       |                                    |                |               |                      | FREQUENCY DEPTH FREQUENCY DI                     |          |          |               |                 | DEPTH                                 |                 |                 |  |
| None  |                                       |                                    |                |               |                      | 30'/10' intervals 2,736' to TD Geolograph 0 - TD |          |          |               |                 |                                       | 0 - TD          |                 |  |
| REMARKS:  |                                       |                                    |                |               |                      |  |          |          |               |                 |                                       |                 |                 |  |
| MUD PROGRA  | M:                                    |                                    |                |               |                      | <u></u>  |          |          |               |                 | <del></del>                           |                 | <del></del>     |  |
| Interval  | Type□N                                | lud                                | #/gal          |               | Vis, □sec/qt         | /30 min Other Specification                      |          |          |               |                 |                                       |                 |                 |  |
| 200'  | Spud                                  |                                    | 8.8 - 9.0      | Suffic        | cient to clean hole. |  |          |          |               |                 |                                       |                 |                 |  |
| 2,736'  | Water/LS                              | ND                                 | 8.4 - 9.0      |               |                      | <9   |          | Sv       | veep          | hole while w    | hilst water d                         | rilling, L      | CM onsite       |  |
| 7,048'  | Air                                   |                                    | 1              | 100           | 0 cfm for hammer     |  |          | Volun    | ie su         | fficient to ma  | aintain a stab                        | le and c        | lean wellbore   |  |
| CASING PROG   | RAM:                                  |                                    |                |               |                      |  |          |          |               |                 | · · · · · · · · · · · · · · · · · · · |                 |                 |  |
| Casing □ S  | String                                |                                    | Depth          | Size          | Casing Size          | Grade, Th  | read     | Weig     | ght           | Landing         | Point                                 |                 | Cement          |  |
| Surface/Conduc  | tor                                   |                                    | 200'           | 13 1/2"       | 9-5/8"               | H-40 ST  | \$C      | 32       | #             |                 |                                       | cmt to surface  |                 |  |
| Intermediate 1  |                                       |                                    | 2,736'         | 8-3/4"        | 7"                   | J/K-55 S1  | &C       | 20       | #             | 100' below LWIS |                                       | cmt to surface  |                 |  |
| Production  |                                       |                                    | 7,048'         | 6-1/4"        | 4-1/2"               | J-55   |          |          |               |                 | ide Intermediate -                    |                 |                 |  |
|   |                                       |                                    |                |               |                      |  |          |          |               |                 |                                       |                 | survey required |  |
| CORING PROG   | RAM:                                  |                                    |                |               |                      |  |          |          |               |                 |                                       |                 |                 |  |
| None  |                                       |                                    |                |               |                      |  |          |          |               |                 |                                       |                 |                 |  |
| COMPLETION  |                                       |                                    |                |               |                      |  |          |          |               |                 |                                       |                 |                 |  |
| Rigless, 2-3 Sta  | ge Limited                            | Entry                              | Hydraulic Fr   | ac, FMC Ur    | nihead               |  |          |          |               |                 |                                       |                 |                 |  |
| GENERAL REM   |                                       |                                    |                |               |                      |  |          |          |               |                 |                                       |                 |                 |  |
| Notify BLM/NM   | OCD 24 hou                            | ırs pri                            | or to Spud, E  | OP testing,   | and Casing and C     | ementing.  |          |          |               |                 |                                       |                 |                 |  |
| BOP Pressure  | Testing Re                            | quire                              | ments          |               |                      |  |          |          |               |                 |                                       |                 |                 |  |
| Format  | ion                                   |                                    | Depth          | T             | Anticipated botto    | m hole press                                     | ure      |          |               | Max an          | ticipated su                          | rface pr        | essure**        |  |
| Cliffhouse 3,908'   |                                       |                                    | 500            |               |                      |  | 0        |          |               |                 |                                       |                 |                 |  |
| Point Lookout 4,648'  |                                       |                                    |                |               |                      |  | 0        |          |               |                 |                                       |                 |                 |  |
| ······································  |                                       |                                    |                |               |                      |  |          |          |               |                 |                                       |                 |                 |  |
| Dakota     6,798'     2600     1104.44       Requested BOP Pressure Test Exception = 1500 psi     ** Note: Determined using the following formula: ABHP – (.22*TVD) = ASP |                                       |                                    |                |               |                      |  |          |          | 2) 40D        |                 |                                       |                 |                 |  |
|   |                                       | ressu                              |                |               |                      | iote: Determi                                    | ned usi  | ing th   | e 101         | owing formu     | ia: ABHP -                            | .22* [V[        | )) = ASP        |  |
| Form 46 Review  |                                       |                                    | Logg           |               | reviewed by:         |  | DATE     |          |               | 485             | DOVES:                                |                 | DATE:           |  |
| PREPARED BY   |                                       |                                    | APPROVED:      |               |                      | DATE:  |          |          | APPROVED: DAT |                 |                                       | DATE:           |                 |  |
| HGJ<br>Form 46 7-84bv   | JMP                                   |                                    |                | Fee Date:     | a Dont               | _ <del>  8</del>                                 | -Oct-04  | 4        |               | Can Can do 1    | on D T                                |                 |                 |  |
|   | ٧                                     |                                    |                | For Drilling  | y Dept.              | _1   |          |          |               | For Product     | ion Dept.                             |                 |                 |  |

,

### **BP America Production Company**





# Additional Operator Remarks Mudge LS 7N APD

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 7048'. Complete in the Basin Dakota Pool, isolate the Dakota; complete into the Blanco Mesaverde, establish a production rate; drill out the bridge plug and commingle production downhole.

Application for Downhole Commingling authority (NMOCD order R-11363) will be submitted to all appropriate for approval after Permit to Drill has been approved.

If terrain allows it is our intent to pre-set the 9 5/8" casing on the above mentioned well by drilling a surface hole with air/air mist in lieu of drilling mud and the surface casing be cemented with 94.5 cu/ft type I-II, 20% FLYASH, 14.5 PPG, 7.41 gal/sk, 1.61 cf/sk Yield, 80 DEG BHST ready mix cement. If the area will not allow for pre-set the approved cement program will be followed.

#### SUPPLEMENTAL TO SURFACE USE PLAN

#### New Facilities:

A 4.5" diameter buried steel pipeline that is +/- 300 feet in length will be constructed. The pipe wall thickness is .156 and the pipe wall strength is 42,000#. It will be adjacent to the access road and tie the well into an existing gas meter operated by BP America Production Company. The pipeline will not be used to transport gas to drill the well. After the well is spud the pipeline will be authorized by a right-of-way issued by El Paso Field Services.

APD/ROW

## 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**

<u>Interval</u>

**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.