Form 3160-3 (September 2001)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0136 Expires January 31, 2004

| 18. Type of Work   | APPLICATION FOR PERMIT TO DRIL   | SF078                                       | SF - <del>078872-k</del> 77 77 79 348 56 |                                |  |  |
|--|--|---|--|--------------------------------|--|--|
| Name of Operator  XID Backeroy Inc.  8. Lease Name and Well No.  8. Lease Name and Well No.  XID Backeroy Inc.  17. Spaces Unit dedicated to this well Inc.  18. Lease Name and Well No.  19. Proposed Depth  17. Spaces Unit dedicated to this well Inc.  17. Spaces Unit dedicated to this well Inc.  18. Lease Name and Well No.  19. Proposed Depth  19. Proposed Depth  10. Backeroy Inc.  10. Such Advances Inc.  10. Such Advances Inc.  10. Such Advance | a. Type of Work X DRILL REEN   | TER   |  |                                |  |  |
| Name of Operator  With Searce Van Inc.  1. Address 2700 Faranthocton Ave., Bldr. K. Ste 1 Faranthocton, Name of Pipole No. (include area could)  2700 Faranthocton Ave., Bldr. K. Ste 1 Faranthocton, Name of Pipole No. (include area could)  2700 Faranthocton Ave., Bldr. K. Ste 1 Faranthocton, Name of Pipole No. (include area could)  2700 Faranthocton Ave., Bldr. K. Ste 1 Faranthocton, Name of Pipole No. (include area could)  2700 Faranthocton Ave., Bldr. K. Ste 1 Faranthocton, Name of Pipole No. (include area could)  2700 Faranthocton Ave., Bldr. K. Ste 1 Faranthocton, Name of Pipole No. (include area could)  2700 Faranthocton Ave., Bldr. K. Ste 1 Faranthocton, Name of Pipole No. (include area could)  2700 Faranthocton Ave., Bldr. K. Ste 1 Faranthocton Name of Name  | o. Type of Well Oil Well Gas Well Other  | X Single Zone Multiple Zone                 | 7. Unit or CA A                          |                                |  |  |
| Rolland Roll   Rolland Roll   Rolland Rollan   | Name of Operator   |   |  |                                |  |  |
| Distance from proposed from nearest town or post office*   15 mlses Southeast of the Bloomfield New Color of South on nearest town or post office*   12 Country or Parish   13 State   13 State   15 mlses Southeast of the Bloomfield New Color office   15 mlses Southeast of the Bloomfield New Color office   17 Spacing Unit dedecated to this well close to to nearest togs, until line, if any)   18 State   18 State   18 State   18 State   19 Proposed Depth   20 BLM/BIA Bond No. on file   19 Proposed Depth   20 BLM/BIA Bond No. on file   21 State   22 State   23 State   23 State   24 State   24 State   25 State      | TO Energy Inc.   | 721V22V2                                    | Bolack "4                                |                                |  |  |
| Location of Well (Report location clearly and in accordance with any State Eutrements)  At surface  835 'FSL x 1905' FZL in Sec 4, T27N, Pilix  Distance in miles and direction from nearest town or post office*  15 miles Southeast of the Bloomfield NM post office  15 miles Southeast of the Bloomfield NM post office  15 miles Southeast of the Bloomfield NM post office  15 miles Southeast of the Bloomfield NM post office  15 miles Southeast of the Bloomfield NM post office  15 miles Southeast of the Bloomfield NM post office  15 miles Southeast of the Bloomfield NM post office  15 miles Southeast of the Bloomfield NM post office  15 miles Southeast of the Bloomfield NM post office  16 Notificers in past 12 Nam  17 Spacing Unit decicated to this well because to nearest well, drilling, completed, applied for, on this lease, ft.  1,000'  2,300'  20 BLM/BIA Bond No. on file  19 Proposed Depth  20 BLM/BIA Bond No. on file  21 weeks  24 Attachments  25 Attachments  26 Collowing, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:  Well plat certified by a registered surveyor.  A Duffling Plan  A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Name (Printed/T)ped)  Date  Date |  | 10 /2 V 35                                  | 9. API WEII NO.                          |                                |  |  |
| At proposed prod. zone  At proposed prod. zone  Distance in miles and direction from nearest town or post office*  15 miles Southeast of the Bloomfield 18 post office  15 miles Southeast of the Bloomfield 16 No forgors in lease property or lease line, fit.  (As to nearest ard, and init, if any)  Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, fit.  10 p. Proposed Depth  Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, fit.  1,000'  2,300'  Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, fit.  1,000'  2,300'  Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, fit.  4, Attachments  at location to nearest well, drilling, completed in accordance with the requirements 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 National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Signuature  Name (Printed/Typed)  Date  Date  Date  Date  Date  Date  Distance from proposed*  Date  Date  Date  Date  Distance from proposed*  10. Specing Unit dedicated to this well  17. Specing Unit dedicated to this well  18. Bund to one with the state work will start*  23. Estimated duration  Winter 2004  2 weeks  4. Bund to cover the operations unless covered by an existing bond on file (see file 20 between 20 betwee | 2700 Farmington Ave., Bldg. K. Ste 1 Farmington Location of Well (Report location clearly and in accordance with any S | State Equirements)*                         |  |                                |  |  |
| At proposed prod. zone  Distance in miles and direction from nearest town or post office*  15 miles Southeast of the Bloomfield M cost office*  15 miles Southeast of the Bloomfield M cost office*  17. Spacing Unit dedicated to this well coation to nearest property or lease line, if, any)  Distance from proposed cleation*  1835   |  |   |  |                                |  |  |
| Distance in miles and direction from nearest town or post office*  15 miles Southeast of the Bloomfield NM post office  15 miles Southeast of the Bloomfield NM post office  16. Neidragers in lease   17. Spacing Unit dedicated to this well location to nearest ment of the bloomfield of the Bloomfield NM post office   18. Neidragers in lease   17. Spacing Unit dedicated to this well location to nearest ment of the location to nearest ment of the location of the location of the location of the location is on this lease, fit.  1,000'  22. Approximate date work will start*  23. Estimated duration  6,183' Ungraded Ground Level  24. Attachments  25. Attachments  26. Blowing, completed in accordance with the requirements 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 National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  4. Bond to cover the operations unless covered by an existing bond on file (see Henri 20 above).  5. Signusture  Name (Printed/Typed)  16. Such other site specific information and/or plans as may be required by the authorized officer.  Name (Printed/Typed)  16. Date  17. JAN 2 0 2006  18. Date  JAN 2 0 2006  18. United the subject lease which would entitle the applicant thought on approval does not warrant or certify that the applicant thought on approval in any, are attached.  18. B.U.S.C. Section 1001 and Tile 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the Unite less any false, fictious or fraudulent statements or representations as to any matter within its jurisdiction.   |  |   |  |                                |  |  |
| Distance in miles and direction from nearest town or post office*  15 miles Southeast of the Bloomfield 2M bost office  16 Near Rocers in lease of the Bloomfield 2M bost office 3M bost o | At proposed prod. zone   | E WIND AND SHE                              | 0 Sec 4,                                 | 127N, R11W                     |  |  |
| Distance from proposed location to nearest groperty or lease line, ft.  (Also to nearest dg., unit line, if any)  Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  1,000¹  Elevations (Show whether DF, KDB, RT, GL, etc.  6,183¹ Ungraded Ground Level  24. Attachments  Elevations (Show whether DF, KDB, RT, GL, etc.  6,183¹ Ungraded Ground Level  24. Attachments  Elevations (Show whether DF, KDB, RT, GL, etc.  6,183¹ Ungraded Ground Level  24. Attachments  Elevations (Show whether DF, KDB, RT, GL, etc.  6,183¹ Ungraded Ground Level  25. Approximate date work will start*  Winter 2004  2 weeks  26. Attachments  Elevations (Show whether DF, KDB, RT, GL, etc.  6,183¹ Ungraded Ground Level  26. Attachments  Elevations (Show whether DF, KDB, RT, GL, etc.  6,183¹ Ungraded Ground Level  27. Attachments  Elevations (Show whether DF, KDB, RT, GL, etc.  6,183¹ Ungraded Ground Level  28. Approximate date work will start*  29. Elevations (Show whether DF, KDB, RT, GL, etc.  40. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).  50. Operator certification.  60. Such other site specific information and/or plans as may be required by the authorized officer.  Name (Printed/Typed)  Date  DAN 2 0 2000  Date  Differey W. Patton  Date  DAN 2 0 2000  Date DAN 2 0 20 | Distance in miles and direction from nearest town or post office*  | Manage of Carlo                             |  | rish 13.State                  |  |  |
| location to nearest property or lesse line, ft. (Also to nearest drg. unit line, if any)  Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  1,000'  Elevations (Show whether DF, KDB, RT, GL, etc. 6,183' Ungraded Ground Level  24. Attachments  e following, completed in accordance with the requirements 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 National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Name (Printed/Typed)  Date  Date  Date  Date  Date  Diffice  Name (Printed/Typed)  Date  Date  Date  Date  Date  DAN 2 0 2004  Elevations on Reverse)  Plan U.S.C. Section 101 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the Unite test any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.  This action is subject to technical and procedural test-well parts and the statements or representations as to any matter within its jurisdiction.  |  |   |  |                                |  |  |
| Also to nearest drg. unit line, if any)  Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  1,000'  Elevations (Show whether DF, KDB, RT, GL, etc. 6,183' Ungraded Ground Level  22. Approximate date work will start* Winter 2004  2 weeks  24. Attachments  E following, completed in accordance with the requirements 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 National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Signuature  Name (Printed/Typed)  Date  Date  Date  Date  Date  Date  Office  I Name (Printed/Typed)  Date  Date  Date  JAN 2 0 2004  Date  Date  JAN 2 0 2004  Date  JAN 2 0 2004  Date  Date JAN 2 0 2004  Date  | location to nearest  | 16. No Cof Acres in lease                   | 17. Spacing Unit dedica                  | ted to this well               |  |  |
| to nearest well, drilling, completed, applied for, on this lease, ft.  1,000¹  2,300¹  22.Approximate date work will start*  23.Estimated duration  6,183¹ Ungraded Ground Level  24. Attachments  25. Eollowing, completed in accordance with the requirements 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 National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Signuature  Name (Printed/Typed)  Jeffrey W. Patton  Date  Dilling Engineer  Name (Printed/Typed)  Date  JAN 20 2006  Delta United Surveyor and the subject lease which would entitle the applicant to duct operations thereon.  Inditions of approval, if any, are attached.  Be U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the Unite tea my flase, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.  Sunstructions on Reverse)  |  | +-2401.76                                   | 321.06                                   | acres W/2 E/2                  |  |  |
| Elevations (Show whether DF, KDB, RT, GL, etc. 6,183' Ungraded Ground Level  24. Attachments  e following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:  Well plat certified by a registered surveyor.  A Drilling Plan  Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Name (Printed/Typed)  Date  Drilling Engineer  Name (Printed/Typed)  Date  Diffrey W. Patton  Date  JAN 2 0 2004  Le Office  Office  Phication approval 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 of approval, if any, are attached.  Let B U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the Unite test any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.  Surface Use Plan (if the location is subject to technical and procedural review pursuant to 43 OFB 3 (56.5).   | to nearest well, drilling, completed,  | 19. Proposed Depth                          | 20.BLM/BIA Bond N                        | o. on file                     |  |  |
| 24. Attachments  25. Attachments  26. In a cordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:  27. Well plat certified by a registered surveyor.  28. A Drilling Plan  29. A Drilling Plan  29. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filled with the appropriate Forest Service Office).  29. Operator certification.  20. Signuature  20. Name (Printed/Typed)  30. Date  31. Date  32. Date  33. Date  34. Bond to cover the operations unless covered by an existing bond on file (see Irtem 20 above).  39. Operator certification.  39. Such other site specific information and/or plans as may be required by the authorized officer.  39. Name (Printed/Typed)  30. Date  34. Date  34. Date (Printed/Typed)  34. Date  34. Date (Printed/Typed)  35. Date  36. Date  36. Date  36. Date  36. Date  37. Date  38. Date  38. Date  38. Date  39. D | applied for, on this lease, ft.  | 2,300'                                      |  |                                |  |  |
| 24. Attachments  the following, completed in accordance with the requirements 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 National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Signuature  Name (Printed/Typed)  Jeffrey W. Patton  Date  Date  Dynoved by (Signature)  Name (Printed/Typed)  Date  Office  Office  Office  Office  Date  JAN 2 0 2004  This action is subject to technical and procedural review oursuant to 43 CFR 3165,3  | Elevations (Show whether DF, KDB, RT, GL, etc.   | 22. Approximate date work will star         | t* 23.Estimate                           | ed duration                    |  |  |
| de following, completed in accordance with the requirements 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 National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).  Signuature  Name (Printed/Typed)  Date  Drilling Engineer  Name (Printed/Typed)  Date  Date  Diffice  Proved by (Signature Jan, are attached.  Surface Office)  Name (Printed/Typed)  Date  JAN 2 0 2004  Date  JAN 2 0 2004  This action is subject to technical and provedural review pursuant to 43 OFF 3 [56.5.3]   | 6,183' Ungraded Ground Level   | Winter 2004                                 |  | 2 weeks                        |  |  |
| Drilling Engineer  Proposed by (Signature) Jeffrey W. Patton  Name (Printed/Typed)  Date  JAN 2 0 2004  The population approval 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 induct operations thereon.  Instructions on Reverse)  This action is subject to technical and procedural review pursuant to 43 OFR 3165.3  |  | authorized officer.                         |  |                                |  |  |
| Drilling Engineer  Drilling Engineer  Date  Date  JAN 2 0 2004  This action is subject to technical and procedural review pursuant to 43 OFR 3165,3  |  | ` '' '                                      |  |                                |  |  |
| JAN 2 0 2004  tle  Office  Office  pplication approval 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 induct operations thereon. Induct operations thereon. Induct operations of approval, if any, are attached.  It also U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the United ates 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   | ···  |   |  |                                |  |  |
| poplication approval 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 induct operations thereon.  Instructions on Reverse)  This action is subject to technical and procedural review pursuant to 43 CFR 3165,3   | pproved by (Sept David J. Markiewicz   | Name (Printed/Typed)                        |  | JAN 2 0 2004                   |  |  |
| Induct operations thereon. Induct operations thereon. Inductions of approval, if any, are attached.  It is action 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowlingly and willfully to make to any department or agency of the United ates 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   | le   | Office                                      |  |                                |  |  |
| tates 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   | onduct operations thereon.   | legal or equitable title to those rights in | he subject lease which                   | would entitle the applicant to |  |  |
| procedural review pursuant to 43 CFR 3165.3  |  |   | lly to make to any depar                 | rtment or agency of the United |  |  |
| and appeal pursuant to 43 CFR 3165.4   | instructions on Reverse)   | <b>p</b> rocedura                           | d review pursuant to 43                  | CFR 3165.8                     |  |  |
|  |  | and appe                                    | al pursuant to 43 CFR 3                  | 165.4                          |  |  |
| BELLING THE WOLLD WILLIAM SECTION  | ne and a surface publication of the  |   |  |                                |  |  |
| SENERAL REQUIREMENTS".   | I WORLD OF WILL ALL ALL ALL ALL ALL ALL ALL ALL ALL  |   |  |                                |  |  |
| BENERAL DECOMPONE  | SENEMAL REGUIREMENT  |   |  |                                |  |  |
|  |  |   | I W W                                    |                                |  |  |

DISTRICT | P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aziec, N.M. 87410

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

Ferm C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

| ISTRICT IV<br>O Box 2088, Sani | la Fe, NM     |           | WELL 1          |                        | AL AND A                    | •             | יבטוכי             | ATIONI DI   | AT.               | AMEN  | DED REPORT         |
|--------------------------------|---------------|-----------|-----------------|------------------------|-----------------------------|---------------|--------------------|---|-------------------|---|--------------------|
| ¹API                           | Number        | · · ·     |                 | <sup>2</sup> Pool Code | N AND A                     | CREAGE E      |                    | <sup>3</sup> Pool Nam                               | ' ' '             |   | ,                  |
| Property Code Property Name    |               |           |                 |                        |                             |               |                    |   |                   | $\Delta \mathcal{C}_{\mathbf{w}}$                 | Il Number          |
| Property Co.                   | 20            |           |                 |                        | BOLAC                       |               |                    |   |                   | •   | 4                  |
| OGRID No.                      |               |           | <del></del>     | <del></del>            | * Operato                   |               |                    |   |                   | •   | Elevation          |
|                                | _             |           |                 |                        | XTO ENER                    |               |                    | `   |                   |   | 6183               |
| 10700                          |               |           | <del></del>     | <u>-</u>               |                             | <del></del>   |                    |   |                   |   |                    |
| UL or lot no.                  | Section       | Township  | Range           | Lot Idn                | Surruc<br>Feet from the     | e Location    | line F             | et from the   | East/West         | West line County                                  |                    |
| 0                              | 4             | 27-N      | 11-W            |                        | 835                         | SOUTH         |                    | 1905  | EAS               | T   | SAN JUAN           |
|                                |               |           | 11 Botto        | m Hole                 | Location                    | If Different  | From               | Surface   |                   |   |                    |
| UL or lot no.                  | Section       | qinenwoT  | Range           | Lot Idn                | Feet from the               | North/South   |                    | eet from the  | East/West         | line  | County             |
|                                | <u> </u>      | <u> </u>  | لنبل            |                        |                             |               |                    |   | <u> </u>          |   |                    |
| <sup>2</sup> Dedicated Acres   | 1             | _  "      | Joint or Infili |                        | <sup>14</sup> Consolidation | Code          | "                  | Order No.   |                   |   |                    |
| 321.                           | 06            | E121      | $\mathcal{I}$   |                        |                             |               |                    |   |                   |   |                    |
| NO ALLOW                       | ABLE '        |           |                 |                        |                             |               |                    |   |                   | EN CO   | NSOLIDATED         |
|                                |               | OR A      | NON-STA         | ANDARD                 | UNIT HAS                    | BEEN APPRO    | OVED E             | BY THE DI   | VISION            |   | ·                  |
|                                |               |           |                 |                        |                             | 28            | CORNE              | 17  | OPERATO           | R CEI   | RTIFICATION        |
|                                |               |           |                 |                        |                             | <b>1</b> 10 1 | GLO 191            | 3 I hereby certif                                   | y that the inform | nation cont                                       | ained herein is    |
|                                | - 1           |           |                 |                        |                             |               | _                  | true and com  | plete to the best | of my kno   | owledge and belief |
| LOT 4                          | ار            | LO        | т 3             |                        | LOT 2                       | LOT .         | ۱ `                | _   |                   |   |                    |
|                                | 600           | 1.23.4373 | <b>3</b>        |                        |                             |               | _                  |   | 4                 |   |                    |
| E                              | 80°           | A         |                 |                        |                             | $\downarrow$  |                    | $\dashv$  |                   |   |                    |
|                                | JAI           | 200ª      | 737             | 1                      |                             | +             |                    | ヿ゙゠゙゚゙゠゙゚゙゚゚゚゙゠゙゚゚゚゚゙゙゙゙゙゙゙゚゚゚゙゠゙゚゚゚ヹ゚゚゚゚゚゙゚゚゙゚゚゚゙゚ |                   |   |                    |
| (1915)                         | (4)           |           |                 | 1                      |                             |               |                    | A/10:   | K)                | ma  | 10                 |
| البيار)<br>المامية             |               |           |                 |                        |                             |               | _                  | Signature   | NG 1-01           | - <i>/                                    </i>    | 14                 |
| J. C.                          | 2, 1          |           | 25/             |                        |                             |               |                    | Printed No  | Ly K              | Smo   | <u> </u>           |
| K                              | 811 a.        | _         |                 |                        |                             |               | ய்                 | 1011  | 11100             | Hee   | mose               |
|                                | Sall of       | 1819      | de line         |                        |                             |               | 20 E               | ∑ Title   | 1033              | <del>, , , , , , , , , , , , , , , , , , , </del> |                    |
|                                |               |           |                 | 4                      |                             | <b>&gt;</b>   | (4                 | $\Box \Box \Box \Box \Box \Box$                     | 105               | <del></del>                                       | <del></del>        |
|                                |               |           |                 | _                      |                             |               | pao1               | 18 S  | URVEYOR           | CER   | TIFICATION         |
|                                |               |           |                 |                        |                             |               | z                  |   |                   |   | shown on this plat |
|                                |               |           |                 |                        |                             |               | _                  |   |                   |   | surveys made by m  |
|                                |               |           |                 |                        |                             |               |                    |   | e best of my      |   |                    |
|                                |               |           |                 |                        |                             |               |                    |   | AM4.              | 200   |                    |
|                                | <u> (uo.6</u> | numu o    | 10              |                        |                             |               |                    | Date of Su  | THE SEE OF PE     | EV,   | *                  |
|                                |               | LAT: 36   | 35'57" N        | (NAD 83)               | <u> </u>                    |               |                    |   | 1 /               | •   | Surviyor:          |
| 57 : 56                        | 7 NJ          | LONG: 108 | 8'00'24' V      | V. (NAD-8              | (3)                         | 1905'         |                    | REGIS   | (1482             | 27)   | MEYOR              |
|                                |               |           | <del>-</del> -  |                        | -                           |               |                    | 7 1/3   |                   | M   | £/                 |
| (                              | 17/1          |           |                 |                        |                             |               |                    | 1   | PROFES            | OVAL  |                    |
| **                             | I want to the |           |                 | )<br>'EOM 7" '''       | 833                         | SI            | EC. CORNE          | ER.   | -10FE8            | 2   | 1                  |
| CALC'D. CORNER                 |               |           | 5 89°<br>5279   | '59'13" W<br>9.3' (M)  |                             | FD FD         | 2 1/2" E<br>GLO 19 | Certificate   | Number            |   |                    |

# **XTO ENERGY INC.**

#### DRILLING PROCEDURE

Boalck "4" #4
Basin Fruitland Coal
December 4, 2003

Location: 835' FSL & 1905' FWL, Sec 4, T27N, R11W County: San Juan State: New Mexico

PROJECTED TOTAL DEPTH: 2,300' OBJECTIVE: Fruitland Coal GR ELEV: 6,183'

# 1. MUD PROGRAM:

| INTERVAL          | 0'-200'   | 200'-TD    |
|-------------------|-----------|------------|
| HOLE SIZE         | 8-3/4"    | 6-1/4"     |
| MUD TYPE          | FW/Native | FW/Polymer |
| MUD WEIGHT, ppg   | 8.6-9.0   | 8.6-9.1    |
| VISCOSITY, sec/qt | 28-32     | 28-33      |
| WATER LOSS, cc    | NC        | NC         |

Remarks: Drill the surface hole with fresh water. Run and cement 7" surface casing, circulating cement to surface. NU and test BOP equipment, then drill out with fresh water. Use polymer sweeps as needed for hole cleaning. At TD, sweep the hole prior to TOH to log.

### 2. **CASING PROGRAM:**

Surface Casing: 7" casing to be set at  $\pm 200$ ' in 8.8 ppg mud.

|          |        |       |      |      | Coll   | Burst  |         |       |       |      |       |         |
|----------|--------|-------|------|------|--------|--------|---------|-------|-------|------|-------|---------|
|          |        | Wt    | ;    |      | Rating | Rating | Jt Str  | ID    | DD    | SF   | SF    | SF      |
| Interval | Length | (ppf) | Gr   | Cplg | (psi)  | (psi)  | (M-lbs) | (in)  | (in)  | Coll | Burst | Tension |
| 0'-200'  | 200'   | 20#   | J-55 | STC  | 2,270  | 3,740  | 234     | 6.456 | 6.331 | 9.99 | 4.59  | 58.5    |

Optimum makeup torque for 7" 20#, J-55, STC casing is 2,340 ft-lbs (Min - 1,760 ft-lbs, Max - 2,930 ft-lbs).

Production Casing: 4-1/2" casing to be set at  $\pm 2,300$ ' in 8.8 ppg mud.

| - |          |        |       |      |      | Coll   | Burst  |         |       |       |      |       |         |
|---|----------|--------|-------|------|------|--------|--------|---------|-------|-------|------|-------|---------|
|   |          |        | Wt    |      |      | Rating | Rating | Jt Str  | ID    | DD    | SF   | SF    | SF      |
|   | Interval | Length | (ppf) | Gr   | Cplg | (psi)  | (psi)  | (M-lbs) | (in)  | (in)  | Coll | Burst | Tension |
|   | 0'-TD    | 2,300' | 10.5# | J-55 | STC  | 4,010  | 4,790  | 132     | 4.052 | 3.927 | 3.57 | 3.33  | 5.24    |

Optimum makeup torque for 4-1/2", 10.5#, J-55, casing is 1,320 ft-lbs (Min - 990 ft-lbs, Max - 1,650 ft-lbs).

Capacity of 7", 20# casing is: 0.04048 bbl/ft Capacity of 4-1/2", 10.5# casing is: 0.01595 bbl/ft

# 3. WELLHEAD:

Casinghead: Larkin Fig 92 (or equivalent) 2,000 psig WP (4,000 psig test) with 7", 8rd pin on

bottom and 8-5/8" API Modified 8rd thread on top.

Tubinghead: Larkin Model 612 (or equivalent) 2,000 psig WP (4,000 psig test) with 4-1/2", 8rd

bottom thread and 8-5/8" 8rd API Modified top body thread, 4.090" minimum bore.

#### 4. **CEMENT PROGRAM:**

A. Surface: 7", 20#, J-55, STC casing at  $\pm$  200'.

Lead: 75 sx Type III cement (or equivelent) containing ¼ pps celloflake, 2% CaCl<sub>2</sub> (mixed at 14.6 ppg, 1.39 ft<sup>3</sup>/sk, 6.67 gal wtr/sk).

Total slurry volume is 104.25 ft<sup>3</sup>, 250% excess of calculated annular volume required to circulate cement to surface.

B. Production: 4-1/2", 10.5#, J-55, STC casing at  $\pm 2,300$ '.

<u>Lead:</u> 150\* sx of Type III cement containing 8% gel, 1/4 pps Celloflake & 2% Phenoseal (mixed at 11.4 ppg, 3.03 ft<sup>3</sup>/sk, 18.51 gal wtr/sk).

Tail: 75 sx Type III cement containing 1% CaCl2, 1/4 pps Celloflake & 2% Phenoseal (mixed at 14.5 ppg, 1.41 ft3/sk, 6.72 gal wtr/sx).

Total estimated slurry volume is  $560 \text{ ft}^3$ ,  $\pm 100\%$  excess of calculated annular volume required to circulate cement to surface.

\* Actual cement volumes will be determined using log caliper volume plus 40% excess.

# 5. **DRILLING HAZARDS:**

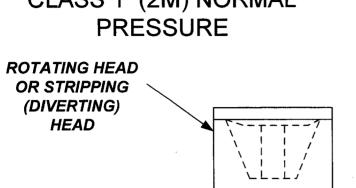
- H<sub>2</sub>S or other Poisonous Gases: No formations known to contain H<sub>2</sub>S or any other poisonous gases will be penetrated with this wellbore.
- Abnormal Pressures: No overpressured zones are known to exist or are anticipated to be encountered during the drilling of this well.
- Lost Circulation: Seepage and/or lost circulation may be encountered below surface casing and can be controlled with conventional lost circulation materials added to the mud system.

# 6. **LOGGING PROGRAM:**

Array Induction/DFL/GR/SP/Cal DSN/Spectral Density/GR/Cal/Pe

TD to bottom of surf csg. TD to bottom of surf csg.

# **BOP SCEMATIC FOR DRILLING OPERATIONS** CLASS 1 (2M) NORMAL **PRESSURE**



1. Test BOP after installation:

Pressure test BOP to 200-300 psig (low pressure) for 5 min.

Test BOP to Working Press or to 70% internal yield of surf csg (10 min).

- 2. Test operation of (both) rams on every trip.
- 3. Check and record Accumulator
- 5. Have kelly cock valve with handle available.
- 6. Have safety valve and subs to fit all sizes of

