### **UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

|        | APPLICATION FOR PERMIT TO   | a= am a =0   |
|--------|---|--|
| a.     | Type of Work 29th 800   | 5. Lease Number  |
|        | DRILL   | Unit Reporting Number  |
|        | <u>(77.5</u>  |  |
| ).     | Type of Well  | 6. If Indian, All. or Tribe  |
|        | GAS   | <b>SE</b> P 2005   |
|        | Operator  | 7. Unit Agreement Name   |
|        | ConocoPhillips  | O'ν  |
|        |   | ,<br>S   |
|        | Address 9 Shows No. of Ossesson                                   | 8. Farm or Lease Name  |
|        | Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 | The second of th |
|        | 10 Don 1203, 1 daming odd, 101 0,133                              | 9. Well Number   |
|        | (505) 326-9700  | #1A  |
|        | Location of Well  | 10. Field, Pool, Wildcat   |
|        | Unit D (NWNW), 670' FNL & 804' FWL                                | Basin Fruitland Coal   |
|        | 50 22 00256/W   | 11. Sec., Twn, Rge, Mer. (NMPN   |
|        | Latitude 36° 58.32.90256'N  | Sec. 22, T32N, R11W, NM  |
|        | Longitude 107° 58.53.996'W  | API# 30-045-33916  |
| ١.     | Distance in Miles from Nearest Town                               | 12. County 13. Sta   |
|        |   | San Juan NM  |
| 5.     | Distance from Proposed Location to Nearest Prope                  | erty or Lease Line   |
| 3.     | Acres in Lease  | 17. Acres Assigned to Well   |
|        |   | FC - 320 W/2   |
|        | Distance from Proposed Location to Nearest Well,                  | Drlg, Compl, or Applied for on this Lease  |
| €.     | Proposed Depth  | 20. Rotary or Cable Tools  |
|        | 3244'   | Rotary   |
| <br>I. | Elevations (DF, FT, GR, Etc.)                                     | 22. Approx. Date Work will Sta   |
|        | 6513′ GL  |  |
| 3.     | Proposed Casing and Cementing Program                             |  |
|        | See Operations Plan attached                                      | 4  |
|        | $= (1),  \land \land \land $                                      | The Shorter  |
| 4.     | Authorized by: Tallsey Cure                                       | 1/dt/b.  |
|        | Sr. Regulatory Analyst  | Date   |
|        | IT NO   | ADDROVAL DATE  |
| :n/Vi  | IT NO.  | APPROVAL DATE  |
|        |   | DATE 9//8  |

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

District I

1625 N, French Dr., Hobbs, NM 88240

District III

1301 W, Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

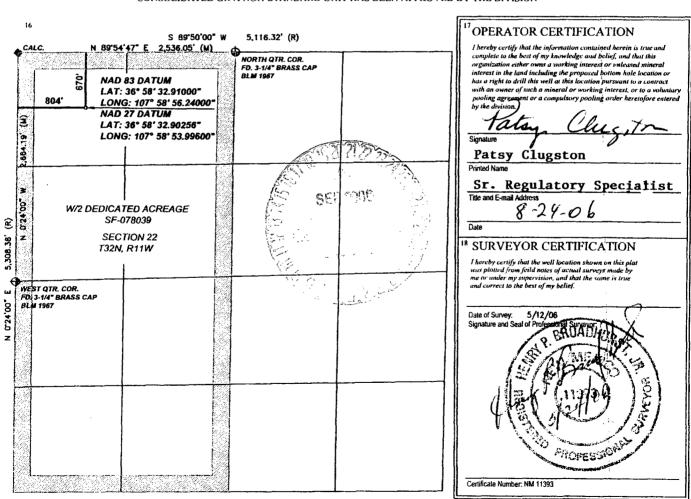
Fee Lease - 3 Copies State Lease - 7 Copies Submit to Appropriate District Office Revised June 10, 2003 Form C-102

□ AMMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

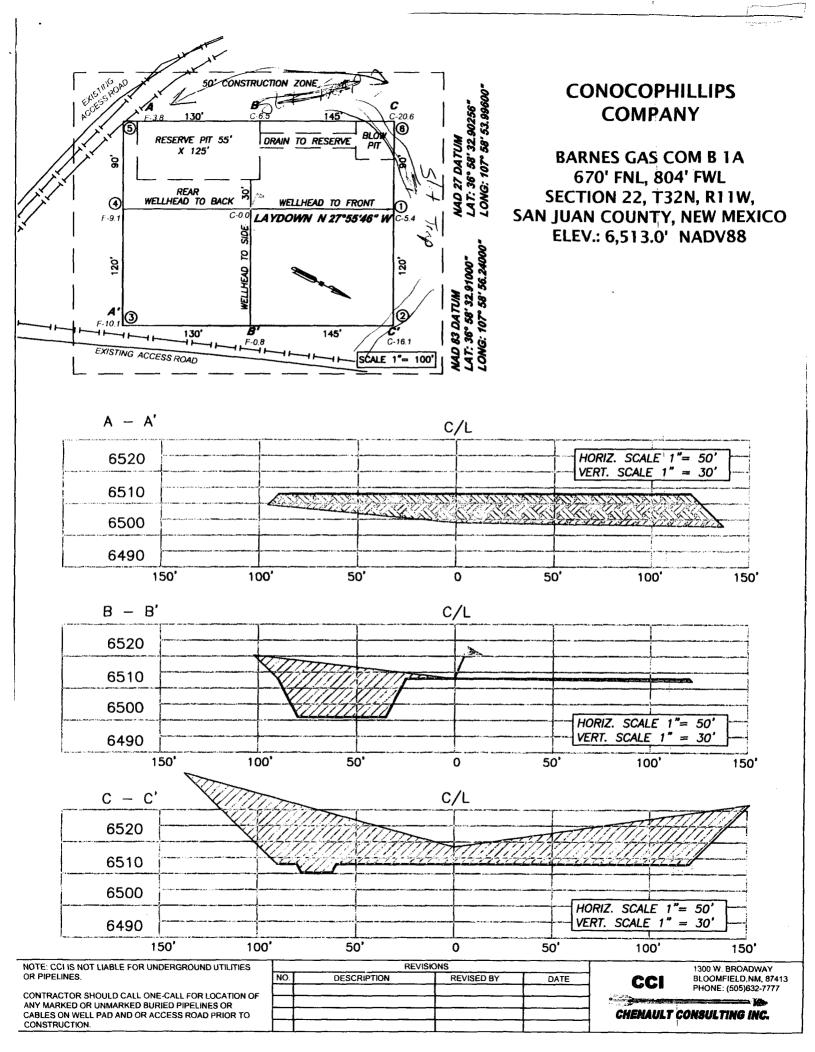
| 30-04                                    | 916     |              | Pool Code<br>71629                     |           |  |                  |               |                |                    |  |
|--|---------|--------------|--|-----------|--|------------------|---------------|----------------|--------------------|--|
| Property Co                              |         |              | 5 Property Name BARNES GAS COM B       |           |  |                  |               |                |                    |  |
| OGRID N<br>217817                        |         |              | 8 Operator Name CONOCOPHILLIPS COMPANY |           |  |                  |               |                |                    |  |
|  |         |              |  |           | 10 SURFACE I   | OCATION          |               |                |                    |  |
| UL or lot no. Section Township D 22 32-N |         |              | Range<br>11-W                          | Lot Idn   | Feet from the North/South line Feet from the East/West line 670 NORTH 804 WEST |                  |               |                | County<br>SAN JUAN |  |
|  |         |              | Ti B                                   | Bottom He | ole Location I   | f Different From | n Surface     |                |                    |  |
| UL or lot no.                            | Section | Township     | Range                                  | Lot Idn   | Feet from the  | North/South line | Feet from the | East/West line | County             |  |
| Dedicated Acres                          | Joint   | or Infill 14 | Consolidation                          | Code 15   | Order No.  |                  |               |                |                    |  |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



| Submit 3 Copies To Appropriate District Office   | State of New Mexi                        | ico                     |  | Form C-103                                 |  |  |
|--|--|-------------------------|--|--|--|--|
| District I   | Energy, Minerals and Natural             | Resources               | May 27, 2004   |  |  |  |
| 1625 N. French Dr., Hobbs, NM 88240<br>District II   |  | WELI                    | API NO.<br>30-045-                                   |  |  |  |
| 1301 W. Grand Ave., Artesia, NM 88210  | OIL CONSERVATION D                       | IVISION 5. Ind          | licate Type of Lease                                 |  |  |  |
| <u>District III</u>  | 1220 South St. Francis                   | Dr.                     | STATE FE   | E 🗌  |  |  |
| 1000 Rio Brazos Rd., Aztec, NM 87410<br>District IV  | Santa Fe, NM 8750                        | 5 6. Sta                | te Oil & Gas Lease No.<br>Federal Lease # SF-0       | 79020                                      |  |  |
| 1220 S. St. Francis Dr., Santa Fe, NM 87505  |  |                         | rederal Lease # Sr-0                                 | /8039                                      |  |  |
|  | S AND REPORTS ON WELLS                   |                         | se Name or Unit Agreement                            | Name                                       |  |  |
| (DO NOT USE THIS FORM FOR PROPOSALS TO DIFFERENT RESERVOIR. USE "APPLICATION"  |  | JA                      | Barnes Gas Com B                                     |  |  |  |
| PROPOSALS.)  |  |                         |  |  |  |  |
| 1. Type of Well: Oil Well Gas Well X   | Other                                    | 8. We                   | ll Number<br>#1A                                     |  |  |  |
| 2. Name of Operator  |  | 9. OG                   | RID Number   |  |  |  |
| Conocc   | Phillips Company                         |                         | 217817   |  |  |  |
| 3. Address of Operator   | ET, FARMINGTON, NM 87402                 | 10. Pc                  | 10. Pool name or Wildcat Fruitland Coal              |  |  |  |
| 4. Well Location   | 21, 174KWINGTON, NWI 67402               |                         | Transana Coar  |  |  |  |
| Unit Letter D : 67 Section 22  | 0' feet from the North Township 32N Rn   | line and 804'           | feet from the Wes  MPM County                        |  |  |  |
|  | evation (Show whether DR, RKB, RT,       |                         | MPM County   | San Juan                                   |  |  |
|  | 6513' GL                                 |                         |  |  |  |  |
| Pit or Below-grade Tank Application  | or Closure                               |                         |  |  |  |  |
| Pit type New Drill Depth to Groundwate Pit Liner Thickness: 12   | <del></del>                              | water well >10 ume bbls | Distance from nearest surface  Construction Material | ce water >1000'                            |  |  |
|  |  |                         |  |  |  |  |
|  | opropriate Box to Indicate Nat           |                         | •  | <b>0</b> 5                                 |  |  |
| NOTICE OF INT  | PLUG AND ABANDON                         | REMEDIAL WOR            | SEQUENT REPORT                                       | OF:<br>RING CASING T                       |  |  |
|  | CHANGE PLANS                             | COMMENCE DRIL           |  |  |  |  |
| PULL OR ALTER CASING   | MULTIPLE COMPL                           | CASING/CEMENT           | JOB  |  |  |  |
| OTHER: New D   | rill X                                   | OTHER:                  |  |  |  |  |
|  | operations. (Clearly state all pertinent |                         |  |  |  |  |
| of starting any proposed work). or recompletion.   | SEE RULE 1103. For Multiple Comp         | letions: Attach wellb   | ore diagram of proposed com                          | pletion                                    |  |  |
| or recompletion.   |  |                         |  |  |  |  |
|  |  |                         | EP 2006  |  |  |  |
|  |  | ( 2 )                   | 6  |  |  |  |
|  |  | ( party )               |  |  |  |  |
|  |  |                         | J.   |  |  |  |
| W  |  | No.                     | 1 J  | 44   |  |  |
| We are constructing Drilling and work November 1, 2004 Guidelines.   | over pits as per our General plan on fil | e with the OCD dated    | June 2005 and we are closin                          | g all pits as per the                      |  |  |
| 7,200 Calabinios   |  | -                       | English Commence                                     |  |  |  |
|  |  |                         |  |  |  |  |
|  |  |                         |  |  |  |  |
|  |  |                         |  |  |  |  |
|  |  |                         |  |  |  |  |
|  |  |                         |  |  |  |  |
|  |  |                         |  |  |  |  |
| I hereby certify that the information above  | e is true and complete to the best of my | knowledge and belie     | f. I further certify that any pit or                 | below-                                     |  |  |
| grade tank has been/will be constructed or closed  |  |                         |  |  |  |  |
| A = A + A + A + A + A + A + A + A + A +  | according to 14140 CD guidennes, a gent  | rai perime [21] or an ( |  | ` Ш  |  |  |
| SIGNATURE The state of the stat | Mexit TITLE                              | Sr. Regulator           | y Specialist DAT                                     |  |  |  |
|  | Mesta TITLE                              | Sr. Regulator           |  | E 8/20/o06                                 |  |  |
| Type or print name For State Use Only  | Mesta TITLE                              | Sr. Regulator           | y Specialist DAT                                     | _  |  |  |
| Type or print name For State Use Only  | TITLE                                    | Sr. Regulator           | .com Telephone No.                                   | E 8/20/006<br>505-326-9518<br>SEP 2 0 2006 |  |  |
| Type or print name Patsy   | Mesta TITLE                              | Sr. Regulator           |  | E 8/20/006<br>505-326-9518<br>SEP 2 0 2006 |  |  |

APPPROVED BY
Conditions of Approval (if any):





# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

## **BARNES GAS COM B 1A**

|  |                                 |                                    |                 |   |               |               |                          |                  | <del></del>  |         |                        |
|--|---------------------------------|------------------------------------|-----------------|---|---------------|---------------|--------------------------|------------------|--|---------|------------------------|
| Lease:   | AFE #: WAN.CBM.6125             |                                    |                 |   |               |               | AF                       | E \$:            |  |         |                        |
| Field Name: NEW MEXICO-NORTH Rig: Pat  |                                 |                                    | atterson Rig 74 | 17  |               | State:        | NM                       | County: SAN JUAN | AF   | PI #:   |                        |
| Geoscientist: Brain, Ted H. Phone:   |                                 |                                    |                 | : 832-486-259                             | 92            | Prod.         | Engineer:                | Piot             | rowicz, Greg M.  | Phone   | e: +1 832-486-3486     |
| Res. Engineer:   | : 832 486-265                   | 1                                  | Proj. F         | ield Lead:                                | Fran          | nsen, Eric E. | Phone                    | :                |  |         |                        |
| <b>Primary Objectiv</b>  | ve (Zones):                     |                                    |                 |   |               |               |                          |                  | A Company of the Comp |         |                        |
| Zone Name  |                                 |                                    |                 |   | 7             |               |                          |                  |  |         |                        |
| R20001   | FRUITLAND                       | COAL(R2000                         | 1)              |   |               |               |                          |                  |  |         |                        |
|  |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
| <b>Location:</b> Surface   | •                               | Datum Cod                          | to: NA          | D 07                                      |               |               |                          |                  |  |         | Straight Hole          |
|  | CURS (1978) AC (1981,975) AC (1 | Resident processes in the self-of- | 19090310009999  | 1748 2 574 8 4 1 3 C 17 17 18 15 17 18 18 | Ī             | *             | <u> </u>                 | 10.00            | T 6+: 22   |         |                        |
| Latitude: 36.97580   |                                 | ude: -107.98                       |                 | X:  |               | Y:            | Section: 22              |                  |  |         | Range: 11W             |
| Footage X: 804 FV  | VL Footag                       | je Y: 670 FNI                      |                 | Elevation: 65                             | 13            | (FT)          | Township:                | 32N              |  |         |                        |
| Tolerance:   |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
| Location Type: Year Round Start Date (Est.): Completion Date: Date In Operation: |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
| Formation Data:  | Assume KB =                     | = 6529 l                           | Jnits =         | FT  |               |               |                          |                  |  |         |                        |
| Formation Call & Casing Points   |                                 | Depth<br>(TVD in Ft)               | SS<br>(Ft)      | Depletion<br>(Yes/No)                     | BHP<br>(PSIG) | внт           |                          |                  | Remar  | ks .    |                        |
| Surface Casing   | 10 100                          | 216                                | 6313            |   |               |               |                          |                  | 5/8" 32.3 ppf, H-40  | STC cas | sing. Circulate cement |
| MACC   |                                 | 1199                               | 5330            | П   |               |               | to surface<br>Possible w |                  | flows.   |         | į                      |
| KRLD   |                                 | 1319                               | 5210            | _   |               |               |                          |                  |  |         |                        |
| RLD  |                                 | 2739                               | 3790            |   |               |               | Possible g               | as.              |  |         |                        |
| Total Depth  |                                 | 3244                               | 3285            |   |               |               | 7 7/8" Hol<br>to surface |                  | 1/2", 17 ppf, N-80, I  | TC Casi | ng. Circulate cement   |
| Reference Wells  | •                               |                                    |                 |   |               |               |                          |                  |  | 194     |                        |
| Reference Type   | Well Name                       |                                    |                 | Comments                                  |               |               |                          |                  | <del></del>  |         |                        |
|  |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
| Logging Program:  Intermediate Logs:  Log only if show  GR/ILD Triple Combo      |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
| Intermediate Logs.   | · [_] Log only                  | y ii silow 📋                       | GRYILL          |   | COITIDO       |               |                          |                  |  |         |                        |
|  |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
| TD Logs:   | Triple C                        | ombo 🔲 Di                          | ipmeter         | RFT [                                     | ] Sonic [     | ☐ VSP         | ✓ TDT                    |                  |  |         |                        |
| -  |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
| Additional Information:  |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
|  |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
| Log Type   | Stage                           | From                               | (Ft)            | To (Ft)                                   |               | Tool          | Type/Name                | е                | Remarks  |         |                        |
|  |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |
|  |                                 |                                    |                 |   |               |               |                          |                  |  |         |                        |

Printed on: 8/21/2006 8:12:20 AM

Comments:

| Comp. Strength<br>8 hrs 475 psi<br>24 hrs 1375 psi   | Comp Strength<br>3 hrs 100 psi<br>24 hrs 443 psi  | Comp. Strength 24 hrs 1850 psi 48 hrs 3411 psi nent te Extender oride  |
|--|---|--|
| Option 3  65 sx  18.6 bbls 104.3 cuft 1.61 ft²/sx 14.5 ppg 7.41 gal/sx Type I-II Ready Mix + 20% Fly Ash   | Option 3  414 sx  193.7 bbls 1087.8 cuft 2.63 ft <sup>3</sup> /sx 11.7 ppg 15.92 gal/sx Class G Cement + 3% D079 Extender + 0.20% D046 Antifoam + 1.0 lb/bbl CemNet             | 224 sx Com 224 sx Com 51.0 bbls 24 hrs 28.6 cuft 48 hrs 1.28 ft³/sx 13.5 ppg 5.255 gal/sx 50/50 Poz. Class G Cement + 2% D020 Bentonite + 5.0 tb/sx D024 Gilsonite Extender + 2% S001 Cament + 2% S004 Antirioamer + 0.1% D046 Antirioamer + 0.15% D065 Dispersant + 1.0 lb/bbl CemNet               |
| Comp. Strength<br>6 hrs 250 psi<br>8 hrs 500 psi   | Comp. Strength 1:47 hrs 50 psi 12 hrs 350 psi 24 hrs 450 psi  | Comp. Strength<br>2:05 50 psi<br>4:06 500 psi<br>12 hrs 1250 psi<br>24hrs 1819 psi<br>ment   |
| Option 2  143 sx 30.8 bbls 172.9 cuft 1.21 ff³/sx 156 ppg 5.29 gal/sx Standard Cement + 3% Calcium Chloride + 0.25 lb/sx Flocele   | Option 2 418 sx 193.7 bbls 1087.8 cuft 2.60 ft²/sx 11.5 pgg 14.62 gal/sx Type III Ashgrove Cement + 30 lb/sx San Juan Poz + 3% Bentonite + 5.0 lb/sx Phenoseal                  | 215 sx<br>215 sx<br>510 bbls<br>286.6 cuft<br>1.33 ff/sx<br>1.35 ppg<br>5.52 gal/sx<br>50/50 Poz. Standard Cement<br>+ 2% Bentonite<br>+ 6.0 lb/sx Phenoseal   |
| Comp. Strength<br>6 hrs 250 psi<br>8 hrs 500 psi<br>psi<br>poiride   | Comp. Strength<br>9 hrs 300 psi<br>48 hrs 525 psi   | Comp. Strength 3:53 500 psi 8:22 1000 psi 24 hrs 3170 psi 48 hrs 5399 psi ment pphane Flakes lloride itte Extender   |
| SURFACE:  Option 1  148 sx Comp. 30.8 bbls 6 hrs 28 172.9 cuff 8 hrs 56 1.17 ft <sup>3</sup> /sx 15.8 ppg 4.973 gal/sx Class G Cement + 3% S001 Calcium Chloride + 0.25 lb/sx D029 Cellophane Flakes | PRODUCTION LEAD: Option 1 400 sx 193.7 bbls 198.7 bbls 108.8 cuft 2.72 ft/sx 11.7 ppg 15.74 galfsx Class G Cement + 3% D079 Extender + 0.20% D046 Antifoam + 10 lb/sx Phenoseal | PRODUCTION TAIL: Option 1 219 sx Comp. 219 sx Comp. 510 bbls 3:53 56 520 cuft 8:22 11 1.31 ft³sx 24 hrs 3 53.17 gal/sx 50/50 Poz. Class G Cement + 0.25 lb/sx D029 Cellophane Flakes + 2% D020 Bentonite + 1.5 lb/sx D024 Gilsonite Extender + 1.5 lb/sx D024 Gilsonite Extender + 6 lb/sx Phenoseal |
| 12.25 "<br>9.625 "<br>9.001 "<br>32.3 ppf<br>H-40 125 %  | 7.875 "<br>5.5 "<br>4.892 "<br>17 ppf<br>N-80<br>150 %  |  |
| HOLE:<br>CSG OD:<br>CSG ID:<br>WGT:<br>GRADE:<br>EXCESS:   | HOLE:<br>CSG OD:<br>CSG ID:<br>WGT:<br>GRADE:<br>EXCESS:<br>TAIL:   |  |

#### TOPSET FRUITLAND COAL Wells: (topset casing above coal to prepare for cavitation/DO/UR)

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

Below Intermediate: air/mist/nitrogen drilling media with foamer, polymer, & corrosion inhibitor as needed

Centralizer Program:

Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> joints Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, &

10<sup>th</sup> joints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

#### CASE & FRAC FRUITLAND COAL Wells: (casing set below coal to prepare for frac completion)

Drilling Mud Program:

Surface: spud mud

Production: fresh water mud with bentonite and polymer as needed

Centralizer Program:

Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> joints Production: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 8<sup>th</sup>, 8, and 10' above the shoe latched over a stop collar and at the top of the 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 8<sup></sup>

10<sup>th</sup> joints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale

#### **MESA VERDE Wells:**

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

Below Intermediate: air/mist drilling media with foamer, polymer, & corrosion inhibitor as needed

Centralizer Program:

Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2<sup>nd</sup>, 3'd, & 4<sup>th</sup> joints Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, &

10<sup>th</sup> joints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

#### **DAKOTA Wells:**

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

Below Intermediate: air/mist/nitrogen drilling media with foamer, polymer, & corrosion inhibitor as needed

Centralizer Program:

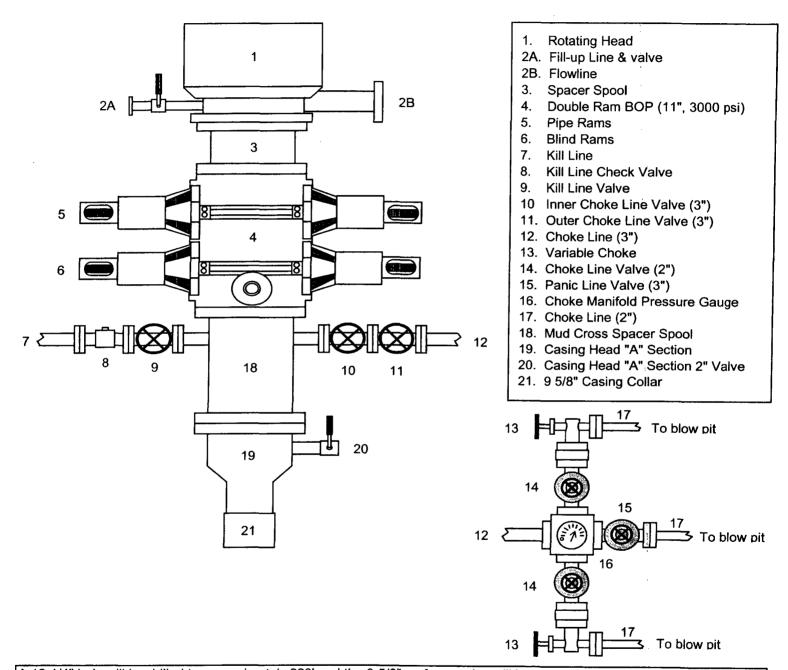
Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2<sup>nd</sup>, 3<sup>rd</sup>, & 4<sup>th</sup> joints Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2<sup>nd</sup>, 4<sup>th</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 8<sup>th</sup>

10<sup>th</sup> ioints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

# **BLOWOUT PREVENTER ARRANGEMENT & PROGRAM**

For Drilling to Intermediate Casing Point & Setting 5 1/2" Intermediate Casing



A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 1000 psi (high pressure test) for 10 minutes. Then the test plug will be removed, and the 9-5/8" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1000 psi for 30 minutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). (Note: per regulatory requirements we will wait on cement at least 8 hrs after placement before testing the 9-5/8" surface casing). Then a 7-7/8" hole will be drilled to production casing point and 5 1/2" intermediate casing will be run and cemented.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. Upper Kelly cock Valve with handle
- 2. Stab-in TIW valve for all drillstrings in use