Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

# APPLICATION FOR PERMIT TO DRILL OR REENTER

| | |
|---|---|
| 1a. Type of Work: ☒ DRILL ☐ REENTER | 5. Lease Serial No. SF-078642 |
| | 6. If Indian, Allottee or Tribe Name |
| | 7. If Unit or CA Agreement, Name and No. |
| 1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone | 8. Lease Name and Well No. SAN JUAN 29-5 UNIT 17C |
| 2. Name of Operator CONOCOPHILLIPS COMPANY<br>Contact: VICKI WESTBY<br>E-Mail: Vicki.R.Westby@conocophillips.com | 9. API Well No. 30-039-29465 |
| 3a. Address 4001 PENBROOK ODESSA, TX 79762<br>3b. Phone No. (include area code) Ph: 915.368.1352 | 10. Field and Pool, or Exploratory BLANCO MESAVERDE |
| 4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*<br>At surface NESE 2165FSL 1205FEL<br>At proposed prod. zone NESE 2165FSL 1205FEL | 11. Sec., T., R., M., or Blk. and Survey or Area Sec 5 T29N R5W Mer NMP I |
| 14. Distance in miles and direction from nearest town or post office* | 12. County or Parish RIO ARRIBA<br>13. State 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 560.00<br>17. Spacing Unit dedicated to this well E/2 321.24 AC |
| 18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed Depth 6066 MD<br>20. BLM/BIA Bond No. on file |
| 21. Elevations (Show whether DF, KB, RT, GL, etc. 6573 GL | 22. Approximate date work will start<br>23. Estimated duration |

MAY 2005

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. 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 Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

| | | |
|---|---|---|
| 25. Signature (Electronic Submission) | Name (Printed/Typed) VICKI WESTBY Ph: 915.368.1352 | Date 02/16/2005 |
| Title AGENT | | |
| Approved by (Signature) /s/ Manuel Manzanares | Name (Printed/Typed) | Date 5-10-05 |
| Title AFM | Office FFO | |

Application approval does not warrant 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 #54153 verified by the BLM Well Information System**
**For CONOCOPHILLIPS COMPANY, sent to the Farmington**

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

NMOCD

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

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

# WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1 API Number | 2 Pool Code | 3 Pool Name |
|---|---|---|
| 30-039-29465 | 72319 | BLANCO MESAVERDE |

| 4 Property Code | 5 Property Name | 6 Well Number |
|---|---|---|
| 31325 | SAN JUAN 29-5 UNIT | 17C |

| 7 OGRID No. | 8 Operator Name | 9 Elevation |
|---|---|---|
| 217817 | CONOCOPHILLIPS COMPANY | 6573' |

## 10 Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| I | 5 | 29N | 5W | | 2165 | SOUTH | 1205 | EAST | RIO ARRIBA |

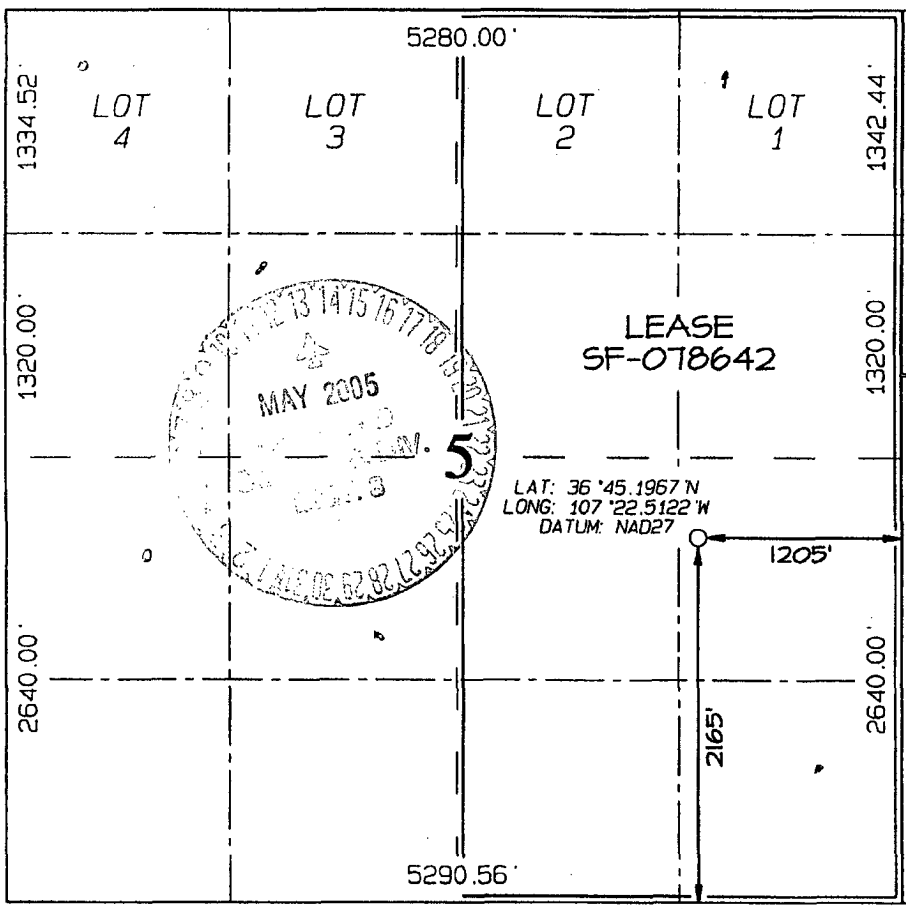
## 11 Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| 12 Dedicated Acres | 13 Joint or Infill | 14 Consolidation Code | 15 Order No. |
|---|---|---|---|
| 321.24 Acres - E/2 | | | |

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

16




## 17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Vicki Westby (pf)
Signature

Vicki R. Westby
Printed Name

Staff Agent
Title

2/15/05
Date

## 18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted 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.

Survey Date: SEPTEMBER 18, 2004

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS
Certificate Number 15269

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 882 1 0
District III
1 000 Rio Brazos Rd., Aztec, NM 8741 0
District IV
1220 S. St. Francis Dr., Santa I e, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Fonn C- 1 03
May 27, 2004

WELL API NO.

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
SAN JUAN 29-5 UNIT

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

8. Well Number 17C

2. Name of Operator
ConocoPhillips Company

9. OGRID Number 217817

3. Address of Operator
4001 Penbrook, Odessa, TX 79762

I 0. Pool name or Wildcat
BLANCO MESAVERDE

4. Well Location
Unit Letter I 2165 feet from the South line and 1205 feet from the East line
Section 5 Township 29N Range 5W NMPM Rio Arriba County

I 1. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
6573 GL

Pit or Below -grade Tank Application ☒ Closure ☐
Pit type DRILL Depth to Groundwater 80' Distance from nearest fresh water well >1 Mile Distance from nearest surface water 200'
Liner Thickness: mil Below-Grade Tank: Volume bbls; Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| PERFORM REMEDIAL WORK | ☐ | PLUG AND ABANDON | ☐ | REMEDIAL WORK | ☐ | ALTERING CASING | ☐ |
| TEMPORARILY ABANDON | ☐ | CHANGE PLANS | ☐ | COMMENCE DRILLING OPNS. | ☐ | P AND A | ☐ |
| PULL OR ALTER CASING | ☐ | MULTIPLE COMPL | ☐ | CASING/CEMENT JOB | ☐ | | |
| OTHER: | ☐ | | | OTHER: | ☐ | | |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE I 1 03. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The pit will be constructed and closed in accordance with Rule 50 and as per the Nov. 1, 2004 Guidelines. See the attached diagram that details the location of the pit in reference to the proposed wellhead. The drill pit will be lined. The drill pit will be closed after the well has been completed. The solids left after the water has been disposed of will be sampled and NMOCD approval will be obtained prior to closure of this pit.

I hereby certify that the information above is true and complete to the best of rny knowledge and belief. I further certify that anv pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved plan ☐

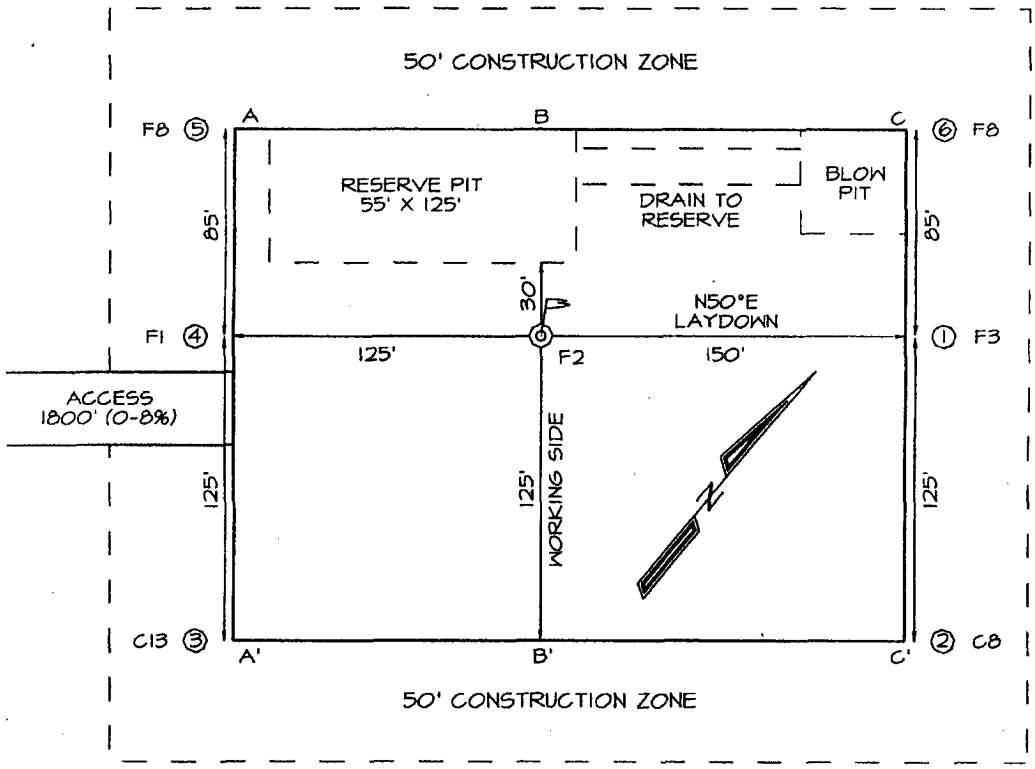
SIGNATURE Vicki Westby TITLE Staff Agent DATE 2/15/05

Type or print name E-mail address: Telephone No.

**For State Use Onlv**

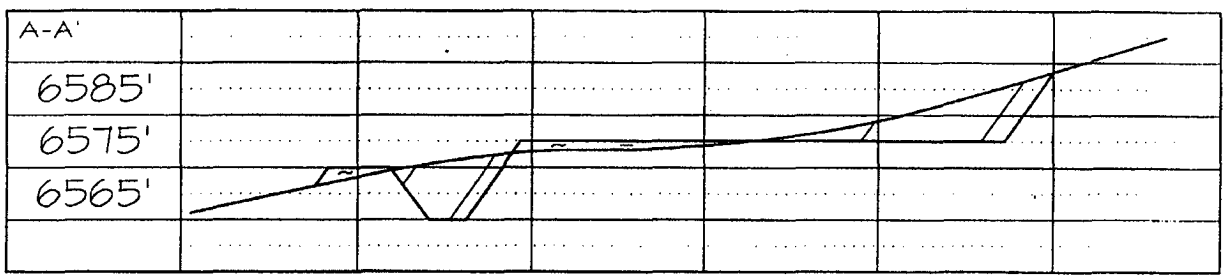
APPROVED BY: TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE MAY 13 2005
Conditions of Approval (if any):

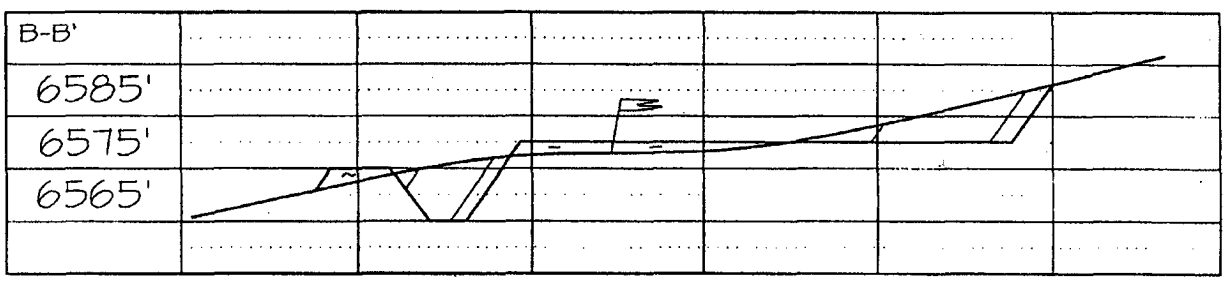
# CONOCOPHILLIPS COMPANY SAN JUAN 29-5 UNIT #17C
## 2165' FSL & 1205' FEL, SECTION 5, T29N, R5W, NMPM
## RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6573'

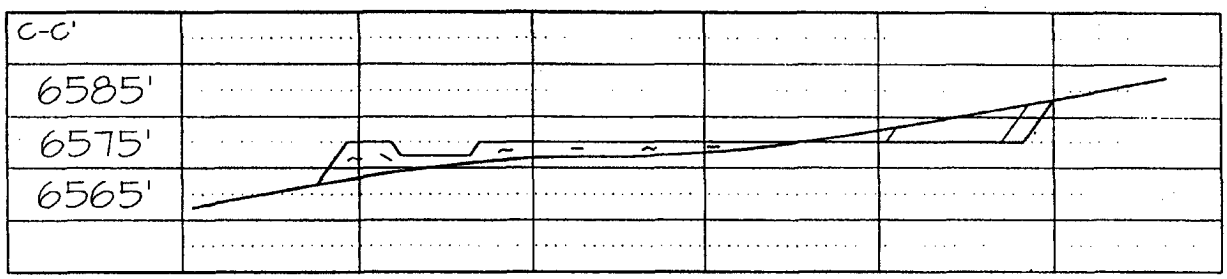



LATITUDE: 36.75328° N
LONGITUDE: 107.37520° W
DATUM: NAD1927

PLAT NOTE:
*FEE SURFACE OWNER* J. Felix Gomez Estate




| FILENAME: 29551T | SHEET 2 OF 6 | NCE SURVEYS, INC. | DRAWN BY: EDO | CHECKED BY: JCE |
|---|---|---|---|---|

ConocoPhillips

San Juan Business Unit

# PROJECT PROPOSAL - New Drill / Sidetrack

## SAN JUAN 29-5 17C

| | | | | |
|---|---|---|---|---|
| Lease: | AFE #: | | | AFE $: |
| Field Name: hPHILLIPS 29-5 | Rig: | State: NM | County: RIO ARRIBA | API #: |
| Geoscientist: Glaser, Terry J | Phone: (832)486-2332 | Prod. Engineer: Moody, Craig E. | | Phone: 486-2334 |
| Res. Engineer: Johnson, Tom B. | Phone: (832)-486-2347 | Proj. Field Lead: Fransen, Eric E. | | Phone: |

**Primary Objective (Zones)**

| Zone | Zone Name |
|---|---|
| RON | BLANCO MESAVERDE (PRORATED GAS) |

**Location: Surface**

| | | | | | |
|---|---|---|---|---|---|
| Latitude: 36.75 | Longitude: -107.38 | X: | Y: | Section: 5 | Range: 5W |
| Footage X: 1205 FEL | Footage Y: 2165 FSL | Elevation: 6573 (FT) | Township: 29N | | |
| Tolerance: | | | | | |

Location Type: Summer Only | Start Date (Est.): | Completion Date: | Date In Operation:

Formation Data: Assume KB = 6586 Units = FT

| Formation Call & Casing Points | Depth (TVD in Ft) | SS (Ft) | Depletion (Yes/No) | BHP (PSIG) | BHT | Remarks |
|---|---|---|---|---|---|---|
| Surface Casing | 213 | 6373 | ☐ | | | 12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface. |
| NCMT | 1311 | 5275 | ☐ | | | |
| OJAM | 2686 | 3900 | ☐ | | | Possible water flows. |
| KRLD | 2866 | 3720 | ☐ | | | |
| FRLD | 3266 | 3320 | ☐ | | | Possible gas. |
| PCCF | 3526 | 3060 | ☐ | | | |
| LEWS | 3726 | 2860 | ☐ | | | |
| Intermediate Casing | 3806 | 2780 | ☐ | | | 8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface. |
| CHRA | 4581 | 2005 | ☐ | | | |
| CLFH | 5366 | 1220 | ☐ | | | Gas; possibly wet |
| MENF | 5451 | 1135 | ☐ | | | Gas. |
| PTLK | 5716 | 870 | ☐ | | | Gas. |
| Total Depth | 6066 | 520 | ☐ | | | 6-1/4" hole. 4-1/2", 10.5 lb/ft, J-55, STC casing. Circulate cement a minimum of 100' inside the previous casing string. No open hole logs. Cased hole TDT to 150' above the Ojo Alamo & GR to surface. CBL to 250' above top of cement. |

**Reference Wells:**

| Reference Type | Well Name | Comments |
|---|---|---|

**Logging Program:**

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☑ TDT ☑ Other

Cement Bond Log

Additional Information:

| Log Type | Stage | From (Ft) | To (Ft) | Tool Type/Name | Remarks |
|---|---|---|---|---|---|

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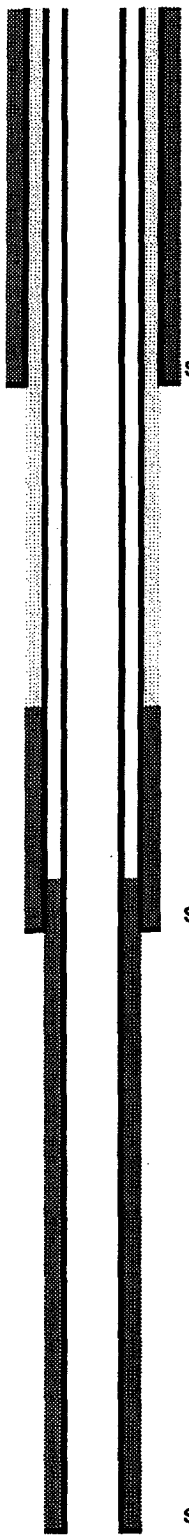
## San Juan 29-5 # 17C
## Halliburton Cementing Program



**SURFACE CASING :**

| | | | |
|---|---|---|---|
| Drill Bit Diameter | 12.25 | " | |
| Casing Outside Diameter | 9.625 | " | Casing Inside Diam. 9.001 " |
| Casing Weight | 32.3 | ppf | |
| Casing Grade | H-40 | | |
| Shoe Depth | 230 | ' | |
| Cement Yield | 1.21 | cuft/sk | |
| Cement Density | 15.6 | lb/gal | |
| Excess Cement | 125 | % | |
| **Cement Required** | **140** | **sx** | |

**SHOE 230 ', 9.625 ", 32.3 ppf, H-40 STC**

**INTERMEDIATE CASING :**

| | | | |
|---|---|---|---|
| Drill Bit Diameter | 8.75 | " | |
| Casing Outside Diameter | 7 | " | Casing Inside Diam. 6.456 " |
| Casing Weight | 20 | ppf | |
| Casing Grade | J-55 | | |
| Shoe Depth | 3806 | ' | |
| Lead Cement Yield | 2.88 | cuft/sk | |
| Lead Cement Density | 11.5 | lb/gal | |
| Lead Cement Excess | 150 | % | |
| **Tail Cement Length** | **761.2** | ' | |
| Tail Cement Yield | 1.33 | cuft/sk | |
| Tail Cement Density | 13.5 | lb/gal | |
| Tail Cement Excess | 150 | % | |
| **Lead Cement Required** | **381** | **sx** | |
| **Tail Cement Required** | **222** | **sx** | |

**SHOE 3806 ', 7 ", 20 ppf, J-55 STC**

**PRODUCTION CASING :**

| | | | |
|---|---|---|---|
| Drill Bit Diameter | 6.25 | " | |
| Casing Outside Diameter | 4.5 | " | Casing Inside Diam. 4.000 " |
| Casing Weight | 10.5 | ppf | |
| Casing Grade | J-55 | | |
| Top of Cement | 3606 | ' | 200' inside intermediate casing |
| Shoe Depth | 6066 | ' | |
| Cement Yield | 1.45 | cuft/sk | |
| Cement Density | 13.1 | lb/gal | |
| Cement Excess | 50 | % | |
| **Cement Required** | **256** | **sx** | |

**SHOE 6066 ', 4.5 ", 10.5 ppf, J-55 STC**

**SAN JUAN 29-5 #17C**

OPTION 1

| 9-5/8 Surface Casing | | |
|---|---|---|
| Cement Recipe | Standard Cement | |
| | + 3% Calcium Chloride | |
| | + 0.25 lb/sx Flocele | |
| Cement Volume | 140 | sx |
| Cement Yield | 1.21 | cuft/sx |
| Slurry Volume | 171.5 | cuft |
| | 30.6 | bbls |
| Cement Density | 15.6 | ppg |
| Water Required | 5.29 | gal/sx |

| 7" Intermediate Casing | | |
|---|---|---|
| Lead Slurry | | |
| Cement Recipe | Standard Cement | |
| | + 3% Econolite (extender) | |
| | + 10 lb/sx Pheno Seal | |
| Cement Required | 381 | sx |
| Cement Yield | 2.88 | cuft/sx |
| Slurry Volume | 1098.5 | cuft |
| | 195.6 | bbls |
| Cement Density | 11.5 | ppg |
| Water Required | 16.85 | gal/sx |

| 7" Intermediate Casing | | |
|---|---|---|
| Tail Slurry | | |
| Cement Slurry | 50 / 50 POZ:Standard Cement | |
| | + 2% Bentonite | |
| | + 6 lb/sx Pheno Seal | |
| Cement Required | 222 | sx |
| Cement Yield | 1.33 | cuft/sx |
| Slurry Volume | 295.7 | cuft |
| | 52.7 | bbls |
| Cement Density | 13.5 | ppg |
| Water Required | 5.52 | gal/sx |

| 4-1/2" Production Casing | | |
|---|---|---|
| Cement Recipe | 50 / 50 POZ:Standard Cement | |
| | + 3% Bentonite | |
| | + 3.5 lb/sx PhenoSeal | |
| | + 0.2% CFR-3 Friction Reducer | |
| | + 0.1% HR-5 Retarder | |
| | + 0.8% Halad(R)-9 Fluid Loss Additive | |
| Cement Quantity | 256 | sx |
| Cement Yield | 1.45 | cuft/sx |
| Cement Volume | 371.4 | cuft |
| | 66.1 | |
| Cement Density | 13.1 | ppg |
| Water Required | 6.55 | gal/sx |

OPTION 2

| 9-5/8 Surface Casing | | |
|---|---|---|
| Cement Recipe | Class G Cement | |
| | + 3% S001 Calcium Chloride | |
| | + 0.25 lb/sx D029 Cellophane Flakes | |
| Cement Volume | 148 | sx |
| Cement Yield | 1.16 | cuft/sx |
| Cement Volume | 171.5 | cuft |
| Cement Density | 15.8 | ppg |
| Water Required | 4.983 | gal/sx |

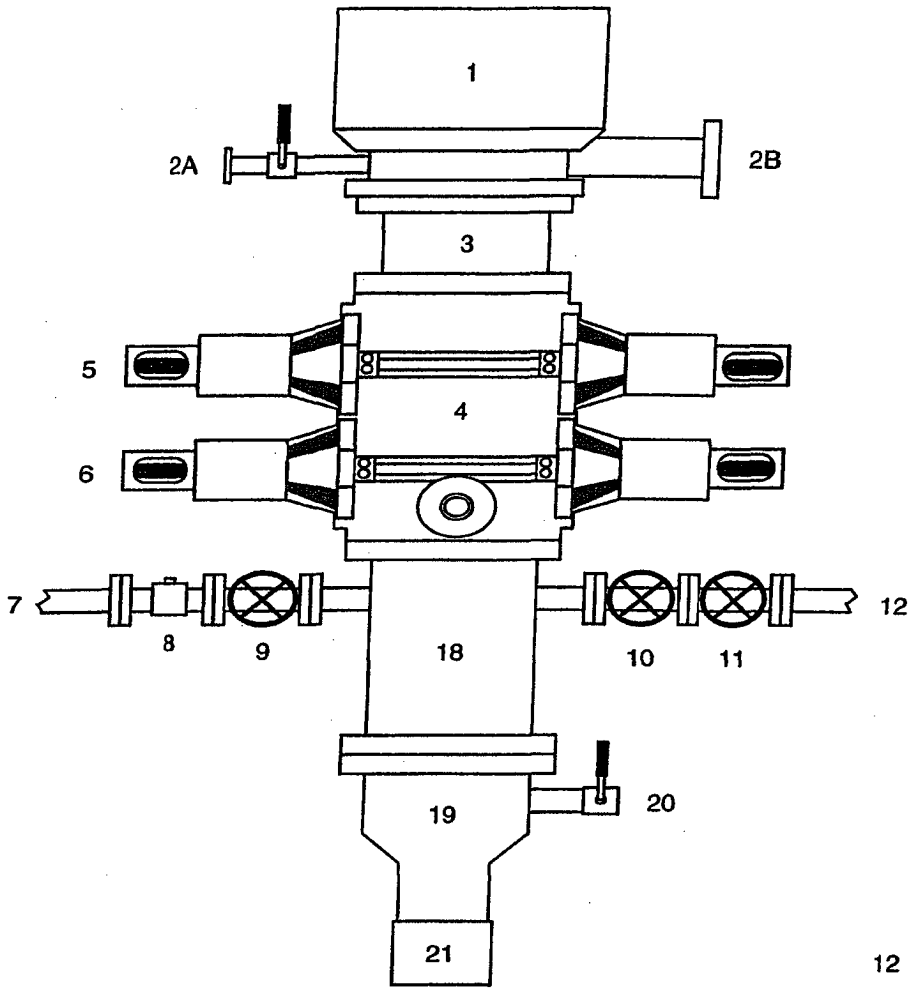
| 7" Intermediate Casing | | |
|---|---|---|
| Lead Slurry | | |
| Cement Recipe | Class G Cement | |
| | + 0.25 lb/sx D029 Cellophane Flakes | |
| | + 3% D079 Extender | |
| | + 0.20% D046 Antifoam | |
| | + 10 lb/sx Pheno Seal | |
| Cement Required | 404 | sx |
| Cement Yield | 2.72 | cuft/sx |
| Slurry Volume | 1098.5 | cuft |
| | 195.6 | bbls |
| Cement Density | 11.7 | ppg |
| Water Required | 15.74 | gal/sx |

| 7" Intermediate Casing | | |
|---|---|---|
| Tail Slurry | | |
| Cement Slurry | 50 / 50 POZ:Class G Cement | |
| | + 0.25 lb/sx D029 Cellophane Flakes | |
| | + 2% D020 Bentonite | |
| | + 1.5 lb/sx D024 Gilsonite Extender | |
| | + 2% S001 Calcium Chloride | |
| | + 0.10% D046 Antifoam | |
| | + 6 lb/sx Pheno Seal | |
| Cement Required | 226 | sx |
| Cement Yield | 1.31 | cuft/sx |
| Slurry Volume | 295.7 | cuft |
| | 52.7 | bbls |
| Cement Density | 13.5 | ppg |
| Water Required | 5.317 | gal/sx |

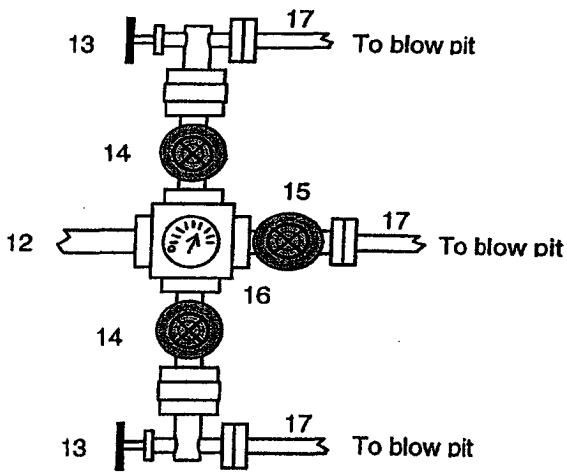
| 4-1/2" Production Casing | | |
|---|---|---|
| Cement Recipe | 50 / 50 POZ:Class G Cement | |
| | + 3% D020 Bentonite | |
| | + 1.0 lb/sx D024 Gilsonite Extender | |
| | + 0.25 lb/sx D029 Cellophane Flakes | |
| | + 3.5 lb/sx PhenoSeal | |
| | + 0.25% D167 Fluid Loss | |
| | + 0.15% D065 Dispersant | |
| | + 0.1% D046 Antifoamer | |
| | | |
| Cement Quantity | 260 | sx |
| Cement Yield | 1.43 | cuft/sx |
| Cement Volume | 371.4 | cuft |
| | 66.1 | |
| Cement Density | 13 | ppg |
| Water Required | 6.51 | gal/sx |

# BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing




1. Rotating Head
2A. Fill-up Line & valve
2B. Flowline
3. Spacer Spool
4. Double Ram BOP (11", 3000 psi)
5. Pipe Rams
6. Blind Rams
7. Kill Line
8. Kill Line Check Valve
9. Kill Line Valve
10 Inner Choke Line Valve (3")
11. Outer Choke Line Valve (3")
12. Choke Line (3")
13. Variable Choke
14. Choke Line Valve (2")
15. Panic Line Valve (3")
16. Choke Manifold Pressure Gauge
17. Choke Line (2")
18. Mud Cross Spacer Spool
19. Casing Head "A" Section
20. Casing Head "A" Section 2" Valve
21. 9 5/8" Casing Collar

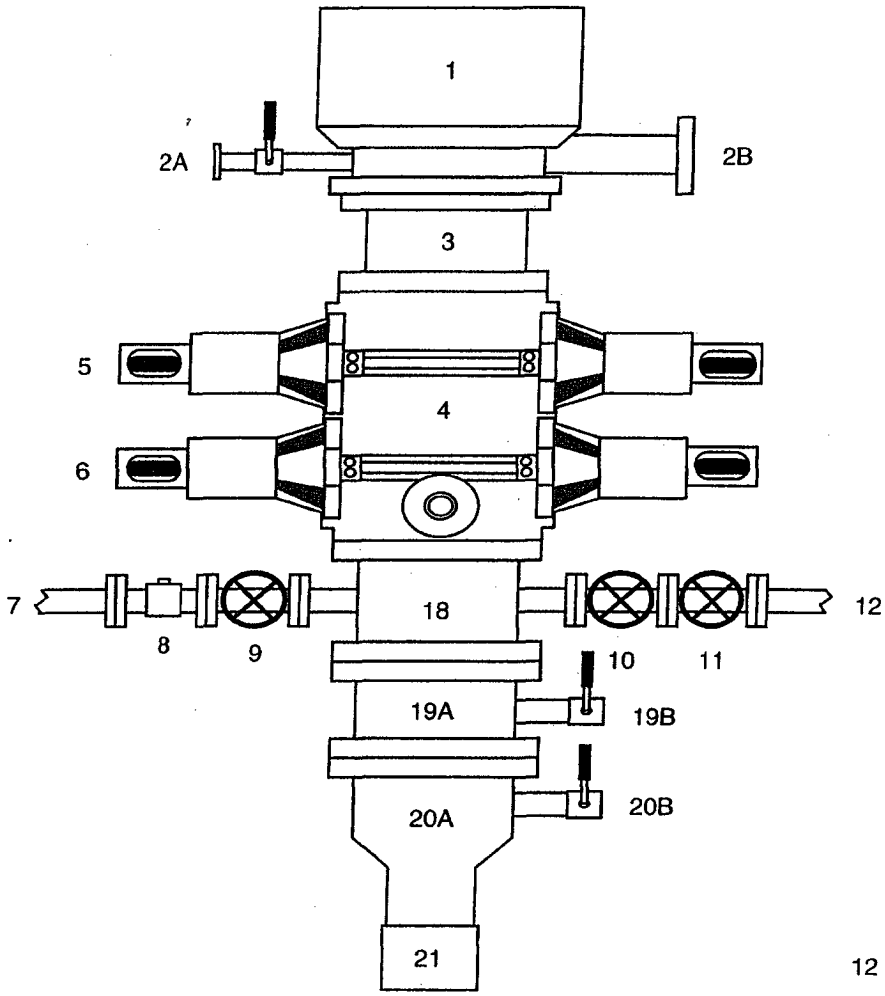



A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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 an 8-3/4" hole will be drilled to intermediate casing point and 7" intermediate casing will be run and cemented.

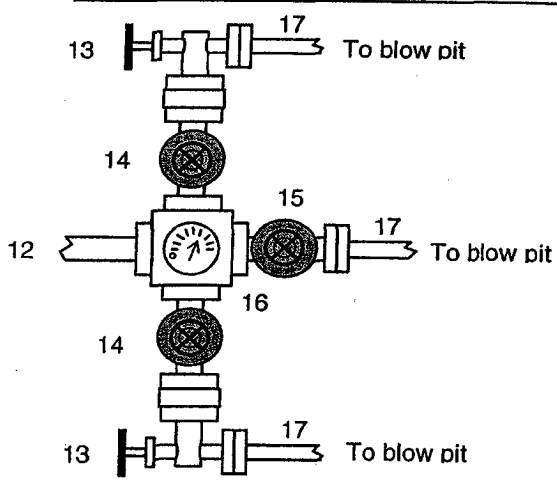
In addition to the equipment in the above diagram the following equipment will comprise the BOP system:
1. Upper Kelly cock Valve with handle
2. Stab-in TIW valve for all drillstrings in use

# BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to TD and Setting 4.5 inch Casing




1. Rotating Head
2A. Fill-up Line & valve
2B. Blooie Line (for Air Drilling)
3. Spacer Spool
4. Double Ram BOP (11", 3000 psi)
5. Pipe Rams
6. Blind Rams
7. Kill Line
8. Kill Line Check Valve
9. Kill Line Valve
10 Inner Choke Line Valve (3")
11. Outer Choke Line Valve (3")
12. Choke Line (3")
13. Variable Choke
14. Choke Line Valve (2")
15. Panic Line Valve (3")
16. Choke Manifold Pressure Gauge
17. Choke Line (2")
18. Mud Cross Spacer Spool
19A Csg Spool "B" Section (11", 3M)
19B "B" Section Csg Valve (2", 3M)
20A Csg Head "A" Section (11", 3M)
20B "A" Section Csg Valve (2", 3M)
21. 9 5/8" Casing Collar




After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 3000 psi (high pressure test) for 10 minutes. Then the test plug will be removed and the 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1800 psi for 30 minutes - this test pressure is 48% of the minimum internal yield strength of 3740 psi for the 7", 20#, J-55, STC casing. Then we will air drill the 6-1/4" hole to TD and run and cement the 4-1/2" casing.

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

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