

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTNOS 4/18/02  
FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SF-079290
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
7. Name of Operator CONOCO INC.		7. If Unit or CA Agreement, Name and No.
Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com		8. Lease Name and Well No. SAN JUAN 28-7 UNIT 258G
3a. Address 10 DESTA DR., ROOM 608W MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 915.686.5799 Ext: 5799	9. API Well No. 3003927249
4. Location of Well (Report location clearly and in accordance with any State requirements) At surface SENW 1365FNL 2375FWL At proposed prod. zone		10. Field and Pool, or Exploratory BLANCO MESAVERDE/BASIN DAKOTA
14. Distance in miles and direction from nearest town or post office*		11. Sec., T., R., M., or Blk. and Survey or Area Sec 23 T28N R7W Mer NMP F
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 OIL CONS. DIV. DIST. 3	12. County or Parish RIO ARRIBA
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7877 MD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6669 GL	22. Approximate date work will start	17. Spacing Unit dedicated to this well 320.00 W/2
23. Estimated duration		20. BLM/BIA Bond No. on file

## 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.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 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). | 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	Date 11/14/2002
Title AUTHORIZED SIGNATURE		
Approved by (Signature) /s/ David J. Mankiewicz	Name (Printed/Typed)	Date DEC 11 2002
Title		Office

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 #16109 verified by the BLM Well Information System  
For CONOCO INC., sent to the FarmingtonDRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

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NMOC

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

District II  
PO Drawer 00, 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

*API Number <b>30-039-27249</b>		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 016608	*Property Name SAN JUAN 28-7 UNIT		*Well Number 258G
*OGRID No. 005073	*Operator Name CONOCO, INC.		*Elevation 6669'

#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	23	28N	7W		1365	NORTH	2375	WEST	RIO ARriba

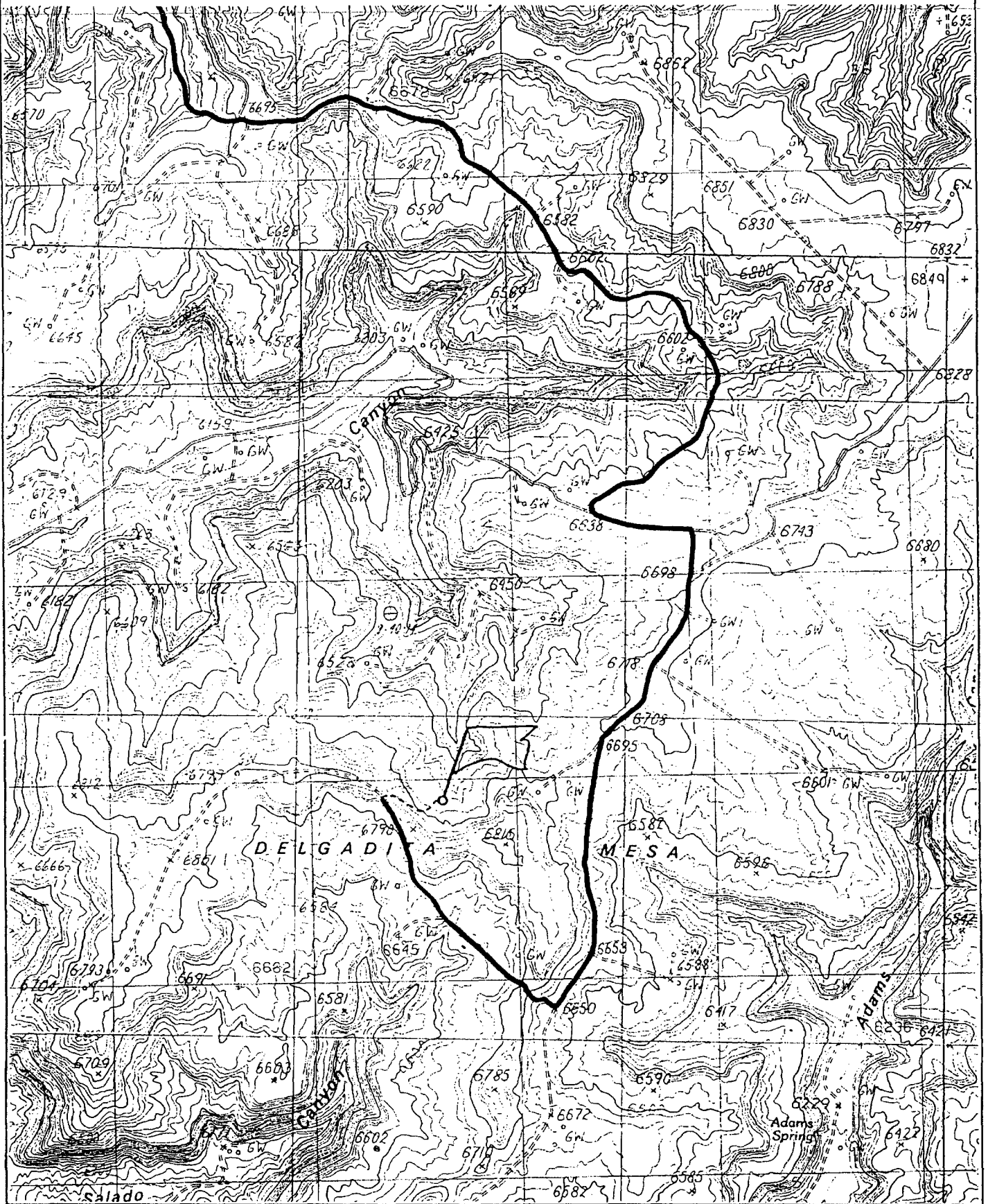
#### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres 320.0 Acres - (W/2)					<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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

<div><p><sup>16</sup></p><p>5289.24'</p><p>1365'</p><p>2375'</p><p>23</p><p>SF-079290</p><p>5280.00'</p><p>5276.04'</p></div>	<div><p><sup>17</sup> OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p><p><i>Vicki Westby</i></p><p>Signature Vicki R. Westby</p><p>Printed Name Sr. Title Analyst</p><p>Title November 12, 2002</p><p>Date</p></div>
	<div><p><sup>18</sup> SURVEYOR CERTIFICATION</p><p>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.</p><p>Survey Date: AUGUST 16, 2002</p><p>Signature and Seal of Professional Surveyor</p><div><p><b>JASON C. EDWARDS</b></p><p>Certificate Number 15269</p></div></div>

CONOCO, INC. SAN JUAN 28-7 UNIT #2586  
1365' FNL & 2375' FWL, SECTION 23, T28N, RTW, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO



# PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 258G

(Not  
Assigned)

ConocoPhillips  
San Juan Business  
Unit

Lease : AFE # : AFE \$ :

Field Name : EAST 28-7 Rig : Key 49 State : NM County : RIO ARRIBA API # :

Geoscientist : Glaser, Terry J Phone (281) 293 - 6538 Prod. Engineer Moody, Craig E. Phone : (281) 293 - 6559

Res. Engineer : Valvatne, Christine K. Phone Proj. Field Lead Phone : 5053245816

## Primary Objective (Zones) :

Zone	Zone Name
FRR	BASIN DAKOTA (PRORATED GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)

"Air Drilled"

## Location : Surface

Latitude : 36.65 Longitude : -107.54 X : Y : Section : 23 Abstract: 7W  
Footage X : 2375 FWL Footage Y : 1365 FNL Elevation: 6669 (FT) Survey : 28N

## Tolerance

Location Type : Year Round Start Date (Est.) Completion Date : Date In Operation :

Formation Data Assume KB 6682 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	200	6482	<input type="checkbox"/>			Severe lost circulation is possible. 12 1/4" Hole. 9 5/8", 36 ppf, J-55, STC casing. Circulate cement to surface.
OJAM	2482	4200	<input type="checkbox"/>			Possible water flows
KRLD	2632	4050	<input type="checkbox"/>			
FRLD	3117	3565	<input type="checkbox"/>			Possible gas
PCCF	3367	3315	<input type="checkbox"/>			Possible gas
LEWS	3567	3115	<input type="checkbox"/>			
Intermediate Casing	3667	3015	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4329	2353	<input type="checkbox"/>			
CLFH	5012	1670	<input type="checkbox"/>			Gas; possibly wet
MENF	5147	1535	<input type="checkbox"/>			Gas
PTLK	5542	1140	<input type="checkbox"/>			Gas
MNCS	5892	790	<input type="checkbox"/>			
GLLP	6834	-152	<input type="checkbox"/>			
GRHN	7527	-845	<input type="checkbox"/>			Gas possible, highly fractured
TWLS	7617	-935	<input type="checkbox"/>			Gas
CBBO	7747	-1065	<input type="checkbox"/>			Gas
Total Depth	7877	-1195	<input type="checkbox"/>			6 1/4" Hole. 4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement a minimum of 100' inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.

## Reference Wells:

Intermediate: Well Name Comments

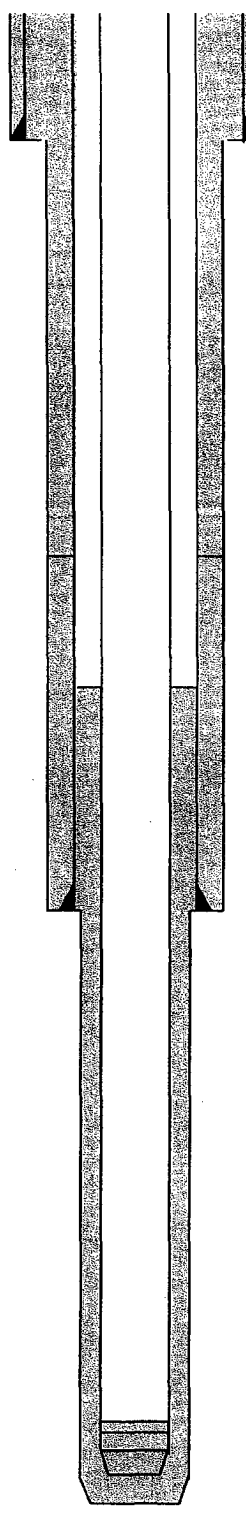
Production: Well Name Comments

# HALLIBURTON

ConocoPhillips Inc. - San Juan Operations

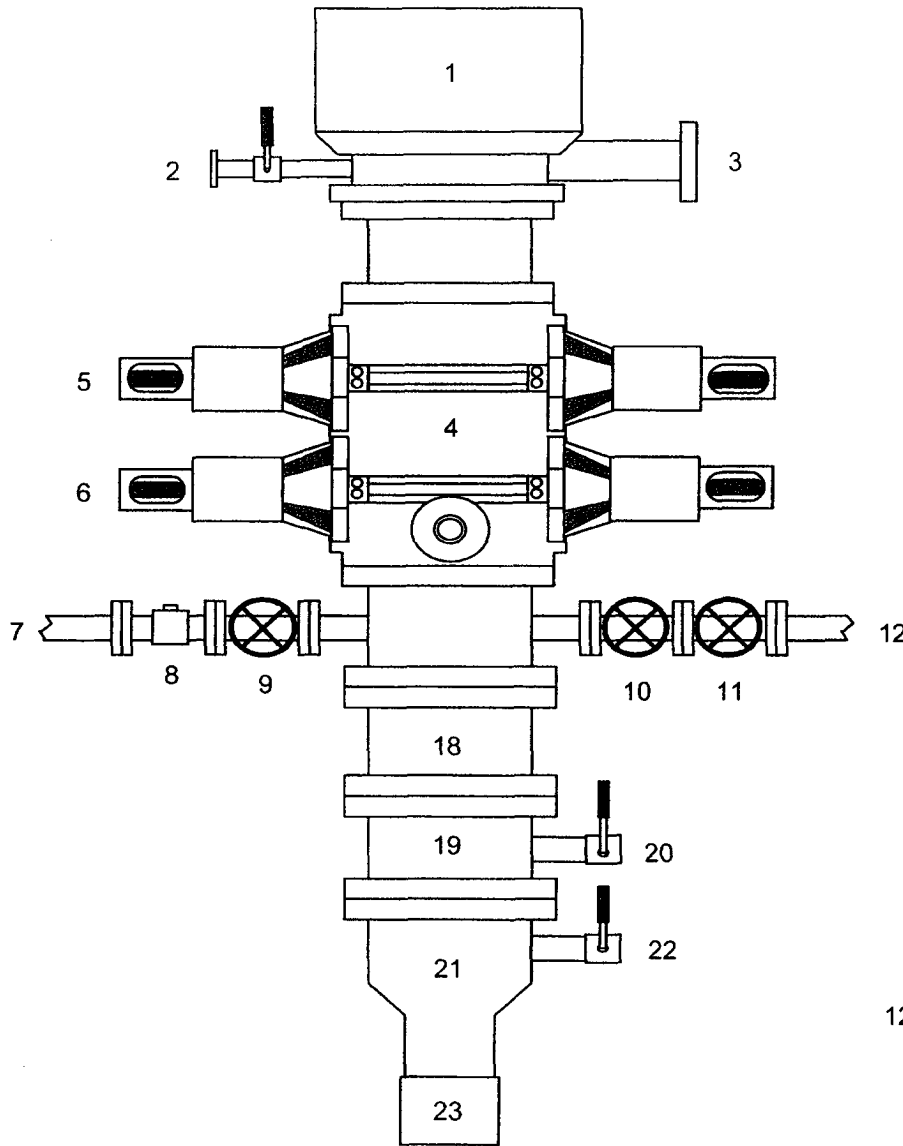
## Cementing Summary

San Juan 28-7 258G (v1.0)

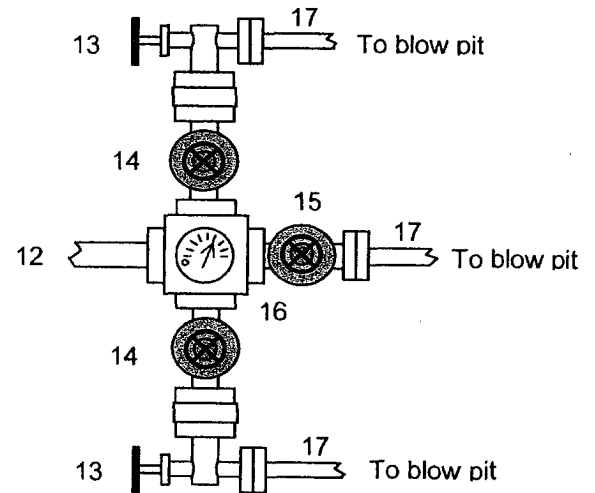
		OH					
		Depth	Excess				
	9-5/8" Sfc Casing	0		50:50 Poz Standard	108.1 sx	Slurry Volume	142.6 cu ft
				Cement	47 lb/sk		25.4 bbl
				San Juan Poz	34 lb/sk	Slurry Density	13.5 ppg
				Gel (Bentonite)	2.0% bwoc-db	Slurry Yield	1.32 cu ft/sk
				Gilsonite	5.0 lb/sk	Mix Fluid	5.35 gal/sk
				CaCl2	3.0% bwoc-db		
				Flocele	0.5 lb/sk		
				CFR-3	0.20% bwoc-db		
	9-5/8" shoe	200	100%				
	7" Lead Cement	100%		Standard Cement	339.85 sx	Slurry Volume	985.6 cu ft
				Standard Cement	94 lb/sk		175.5 bbl
				Econolite	3.0% bwoc	Slurry Density	11.4 ppg
				Flocele	0.5 lb/sk	Slurry Yield	2.9 cu ft/sk
				Gilsonite	10.0 lb/sk	Mix Fluid	16.78 gal/sk
				Defoamer (if req'd)	0.05 gal/bbl		
	7" Top of Tail	3,367					
	7" Tail Cement	100%		50:50 Poz Standard	82.176 sx	Slurry Volume	109.3 cu ft
				Standard Cement	47.0 bwob		19.5 bbl
				San Juan Poz	34.0 lb/sk	Slurry Density	13.5 ppg
	4.5" TOC	3,467		CaCl2	2.00% bwob	Slurry Yield	1.33 cu ft/sk
				Bentonite-Gel	2.00% bwob	Mix Fluid	5.32 gal/sk
				Flocele	0.25 lb/sk		
				Gilsonite	5.0 lb/sk		
				Defoamer (if req'd)	0.05 gal/bbl		
	7" Casing Intermediate	3,667	100%				
	4.5" Cement	50%		50:50 Poz Standard	460.43 sx	Slurry Volume	672.2 cu ft
				Standard Cement	47 lb/sk		119.7 bbl
				San Juan Poz	34 lb/sk	Slurry Density	13.0 ppg
				Bentonite	3.00% bwob	Slurry Yield	1.46 cu ft/sk
				CFR-3	0.20% bwoc	Mix Fluid	6.42 gal/sk
				Halad-9	0.80% bwoc		
				HR-5	0.10% bwoc		
				Gilsonite	5.0 lb/sk		
				Flocele	0.25 lb/sk		
				Defoamer (if req'd)	0.05 gal/bbl		
	4-1/2" Casing Production	7,877	50%				

Note: Conoco to verify casing depths.

# BLOWOUT PREVENTER HOOKUP



1. Rotating Head
2. Fill-up Line & valve
3. Flowline
4. Blowout Preventer (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. Spacer Spool
19. Casing Spool "B" Section
20. Casing Spool "B" Section 2" Valve
21. Casing Head "A" Section
22. Casing Head "A" Section 2" Valve
23. 9 5/8" Casing Collar



Drilling contractors used in the San Juan Basin supply 3000 psi equipment, but cannot provide annular preventors because of sub-structure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. The above diagram of the BOP system details 2000 psi equipment according to Onshore Order No. 2 even though the equipment will test to 3000 psi. The 2000 psi system allows deletion of the annular preventor and fulfills your requirements.

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

# Cathodic Protection System Description

<b>Anode Bed Type</b>	Deep Well	
<b>Hole Size</b>	8"	
<b>Hole Depth</b>	200' - 500'	As required to place anodes below moisture and in low resistance strata.
<b>Surface Casing</b>	8" Diam., $\geq$ 20' Length. Cemented In Annular Space	When needed, casing will be installed at an adequate depth to control ground water flow. Casing will extend a minimum of 2' above grade, be surrounded by a concrete pad, and sealed with a PVC cap. Steel casing will be substituted when boulders are encountered.
<b>Vent Pipe</b>	1" Diam. PVC	Vent pipe will extend from bottom of hole, through top of casing cap, and sealed with a 1" perforated PVC cap.
<b>Type Of Anodes</b>	Cast Iron Or Graphite	
<b>Number Of Anodes</b>	8 - 20	Sufficient quantity to achieve a total anode bed resistance of $< 1$ ohm and a design life $\geq$ 20 years.
<b>Anode Bed Backfill</b>	Lorasco SW Calcined Petroleum Coke Braeze	Installed from bottom of hole to 10' above top anode.
<b>Anode Junction Box</b>	8 - 20 Circuit Fiberglass Or Metal	Sealed to prevent insect & rodent intrusion.
<b>Current Splitter Box</b>	2 - 5 Circuit Metal	Sealed to prevent insect & rodent intrusion.
<b>DC / AC Cable</b>	DC: #2, #4, #6, #8 Stranded Copper (One Size Or Any Combination Of) With High Molecular Weight Polyethylene (HMWPE) Insulation.  AC: #8 Stranded Copper HMWPE	18" depth in typical situation, 24" depth in roadway, & 36" depth in arroyos and streams. EXCEPTION: If trenching is in extremely hard substratum, depth will be 8 - 12" with cable installed in conduit.  Installed above foreign pipelines if 1' clearance is available. If not, installed under foreign pipeline with 1' clearance (AC cable always installed under foreign pipeline in conduit).
<b>Power Source</b>	1) Rectifier 2) Solar Power Unit 3) Thermoelectric Generator	Choice of power source depending on availability of AC & other economic factors.
<b>External Painting</b>	Color to be selected according to BLM specifications.	Paint applied to any surface equipment associated with the CP system which can reasonably be painted.