

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: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SF-078972
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
2. Name of Operator CONOCO INC. Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com		7. If Unit or CA Agreement, Name and No.
3a. Address 10 DESTA DR., ROOM 608W MIDLAND, TX 79705		8. Lease Name and Well No. San Juan 28-7 145G
3b. Phone No. (include area code) Ph: 915.686.5799 Ext: 5799		9. API Well No. 30-039-26989
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW 2050 FSL 880 FWL At proposed prod. zone		10. Field and Pool, or Exploratory BLANCO MESAVERDE/BASIN DAKC
14. Distance in miles and direction from nearest town or post office*		11. Sec., T., R., M., or Blk. and Survey or Area Sec 10 T27N R7W Mer NMP L
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	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 7649 MD	13. State NM
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6601 GL	22. Approximate date work will start	17. Spacing Unit dedicated to this well 320.00 w/2
24. Attachments		20. BLM/BIA Bond No. on file
23. Estimated duration		23. Estimated duration
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4		
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".		

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).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission) <i>Vicki Westby</i>	Name (Printed/Typed) VICKI WESTBY	Date 4/22/02
Title AUTHORIZED SIGNATURE		
Approved by (Signature) <i>Mark Kelly</i>	Name (Printed/Typed)	Date 5-24-02
Assistant Field Manager (Electronic) ACTING	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 #10185 verified by the BLM Well Information System
For CONOCO INC., will be sent to the Farmington

** DRAFT ** DRAFT ** DRAFT ** DRAFT ** DRAFT ** DRAFT ** DRAFT **

AMOCO

RECEIVED
2002 APR 24 AM 11:22
070 FARMINGTON, NM

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 30-039-26989		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 016608	*Property Name SAN JUAN 28-7 UNIT		*Well Number 145G
*GRID No. 005073	*Operator Name CONOCO, INC.		*Elevation 6601'

¹⁰ Surface Location

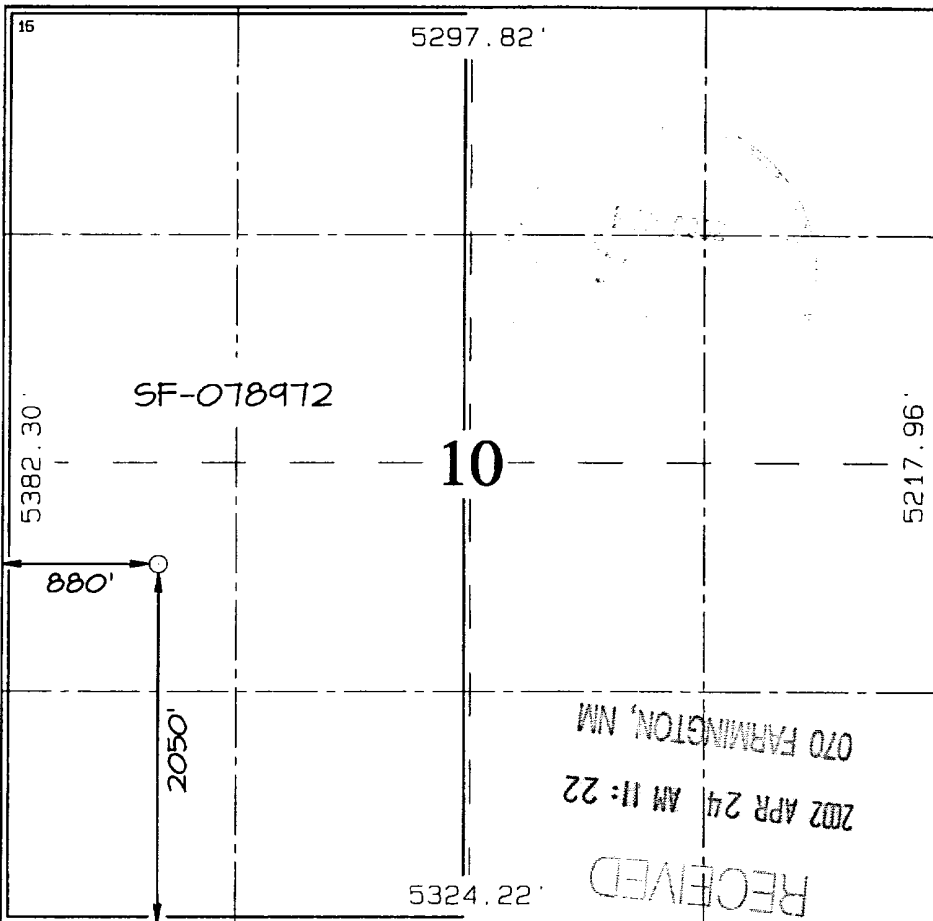
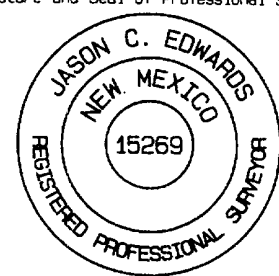
UL or lot no. L	Section 10	Township 27N	Range 7W	Lot Idn	Feet from the 2050	North/South line SOUTH	Feet from the 880	East/West line WEST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

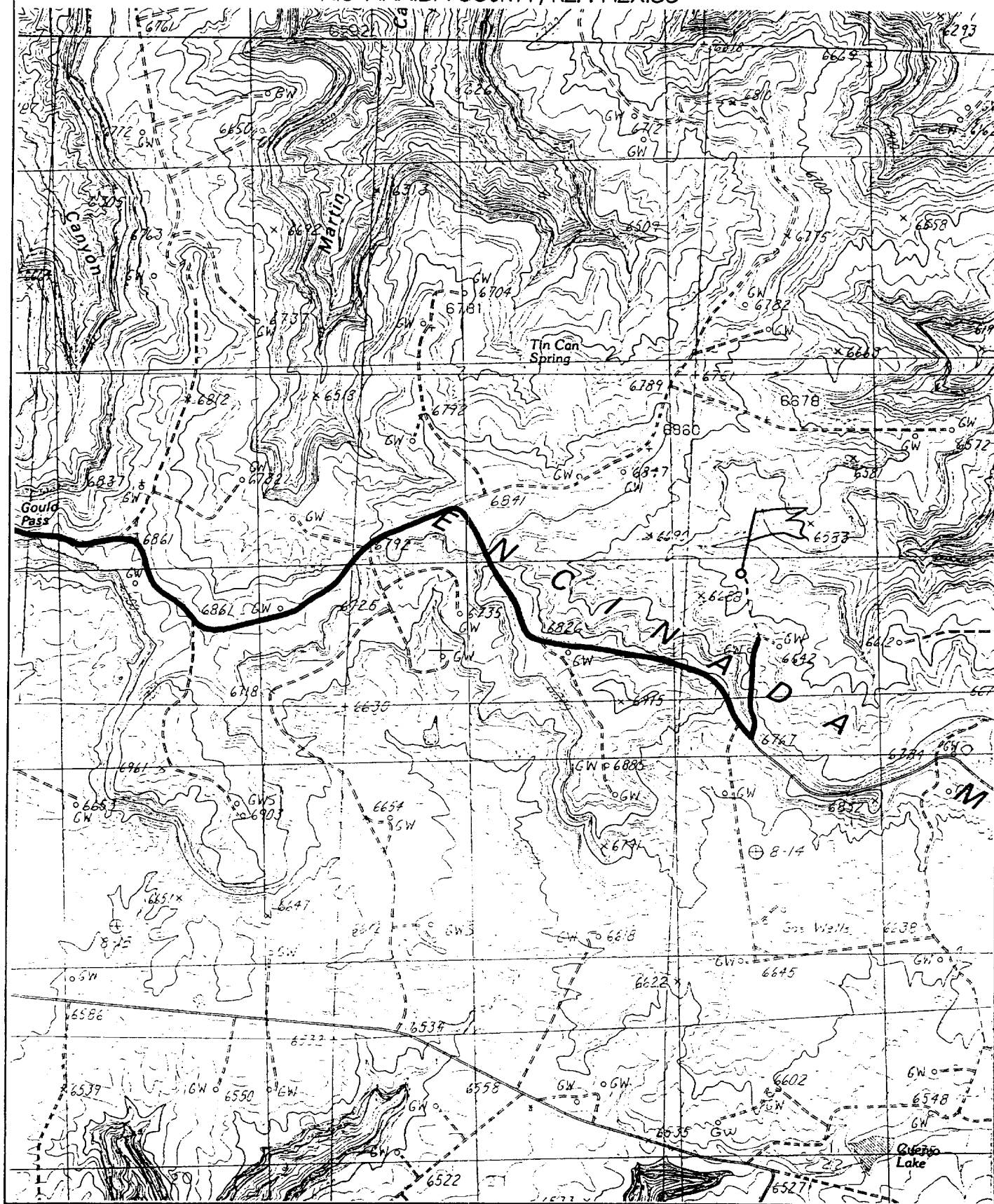
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 320.0 Acres - W/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO 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>¹⁶</p></div>	<p>¹⁷ 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 R. Westby</i> Signature Vicki R. Westby Printed Name Sr. Title Analyst Title <i>December 17, 2001</i> Date</p>
	<p>¹⁸ 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: NOVEMBER 2, 2001</p> <p>Signature and Seal of Professional Surveyor</p> <div><p><i>JASON C. EDWARDS</i> Certificate Number 15269</p></div>

2050' FSL & 880' FWL, SECTION 10, T27N, R7W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO



DRILLING PROGRAM - SAN JUAN 28-7 145G



Business Unit

Well: SAN JUAN 28-7 145G	Area: EAST	AFE #s:		AFE \$: 338783.4
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Field Name: EAST 28-7	Rig: Key 43	State: NM	County: Rio Arriba	API #:
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Location: Surface							
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Lat.: 36.586872	Long: -107.567102	Footage X: 880	FWL	Footage Y: 2050	FSL	Sec.: 10	Survey: 27N	Abstract: 7W
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ERA (Emergency Response Area):								
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Lat:	Long:
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Formation Data : Ground Level = 6601 FT Assume KB = 6614 FT

"Air Drilled"

Formation Call & Casing Points	Depth (TVD in Ft)	BHP (PSIG)	BHT	Remarks
Surface Casing	200			Severe lost circulation is possible. 9 5/8", 36 ppf, J-55, STC casing. Circulate cement surface.
OJAM	2339			Possible water flows
KRLD	2489			
PCCF	3144			
LEWS	3344			
Intermediate Casing	3444			7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4089			
CLFH	4824	1300		Gas; possibly wet
MENF	4914			Gas
PTLK	5389			Gas
MNCS	5829			
GLLP	6604			
GRHN	7299			Gas possible, highly fractured
TWLS	7384			Gas
CBBO	7524			Gas
Total Depth	7649	3000		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.

Logging Program:	
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Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR / ILD <input type="checkbox"/> Triple Combo <input type="checkbox"/> Other
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TD Logs:	<input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input checked="" type="checkbox"/> TDT <input type="checkbox"/> Other
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Additional Information:	
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Comments	
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Well: San Juan 28-7 145G
County: San Juan
Area: East 28-1
Rig: Key Rig 43

Company: Conoco, Inc.
Engineer: Mr. Tom Schaefer
Date: 18-Apr-02

Surface Casing:

101 sx Type III Cement + 2%bwoc Calcium Chloride + 0.25 lbs/sk Cello Flake + 59.2% H2O

Slurry Weight:	14.5	ppg
Slurry Yield	1.41	cf/sk
Amount of Mix Water	6.67	gps
Pump Time	2:30	
Compressives		
8 hrs @ 80 F	800	psi
24 hrs @ 80 F	2150	psi
48 hrs @ 80 F	3625	psi

Intermediate Casing:

Slurry 1 **543** sx Premium Lite Cement + 2% bwoc Calcium Chloride + 0.25 lbs/sc Cello Flake + 8% bwoc Bentonite + 115.5% H2O

Slurry 2 **89** sx Type III Cement + 2% bwoc Calcium Chloride + 0.25 lbs/sk Cello Flake + 59.2% H2O

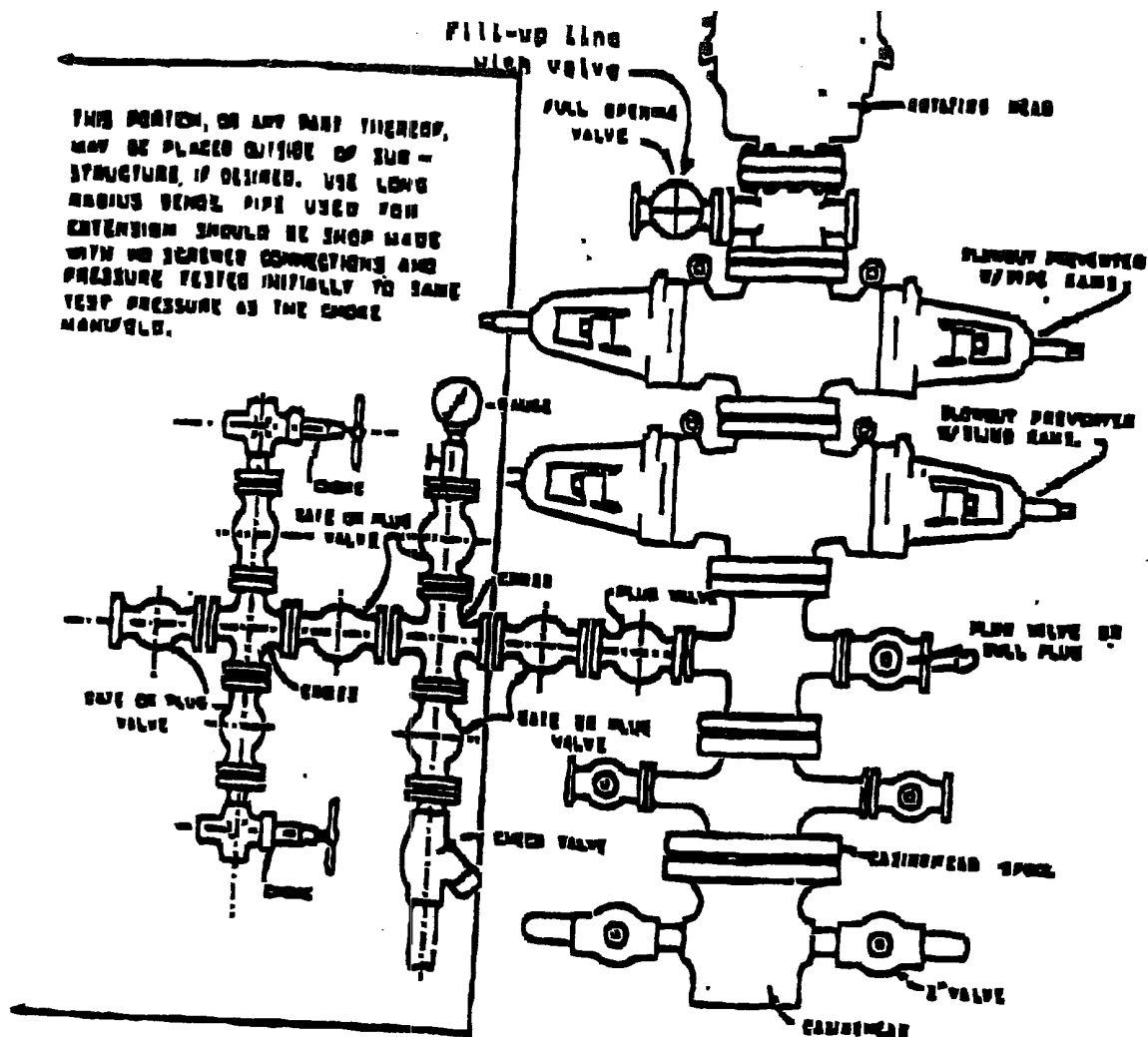
Slurry 1		
Slurry Weight:	12.1	ppg
Slurry Yield	2.23	cf/sk
Amount of Mix Water	12.05	gps
Pump Time	3:00	
Compressives		
8 hrs @ 80 F		psi
24 hrs @ 80 F	250	psi
48 hrs @ 80 F	525	psi

Slurry 2		
Slurry Weight:	14.5	ppg
Slurry Yield	1.41	cf/sk
Amount of Mix Water	6.67	gps
Pump Time	2:15	
Compressives		
8 hrs @ 80 F	800	psi
24 hrs @ 80 F	2150	psi
48 hrs @ 80 F	3625	psi

Production Casing:

378 sx Premium Lite High Strength + 0.25 lbs/sk Cello Flake + .2% bwoc CD-32 + 0.65% bwoc FL-62 + 105.4% H2O

Slurry Weight:	12.5	ppg
Slurry Yield	2.02	cf/sk
Amount of Mix Water	11	gps
Pump Time	3:00	
Compressives		
8 hrs @ 140 F		psi
24 hrs @ 140 F	1600	psi
48 hrs @ 140 F	2000	psi



BLOWOUT PREVENTER HOOKUP

Drilling contractors used in the San Juan Basing supply 3000 psi equipment, but cannot provide annular preventers because of sub-structure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. Please see the attached BOP diagram 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 (note diagram No. 1). In addition, the following equipment will comprise the 2000 psi system:

1. Two rams with one blind and one pipe ram.
2. Kill line (2 inch maximum).
3. One kill line valve.
4. One choke line valve.
5. Two chokes (reference diagram No. 1).
6. Upper kelly cock valve with handle.
7. Safety valve and subs to fit all drill strings in use.
8. Two-inch minimum choke line.
9. Pressure gauge on choke manifold.
10. Fill-up line above the upper most preventor.
11. Rotating head.