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. CONTRACT 106
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA Agreement, Name and No. 18019
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. JICARILLA B 15A
2. Name of Operator CONOCO INC. Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com	9. API Well No. 30 039 26839
3a. Address 10 DESTA DR., ROOM 608W MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 915.686.5799 Ext: 5799
	10. Field and Pool, or Exploratory BLANCO MESAVERDE
4. Location of Well *(Report location clearly and in accordance with any State requirements *)* At surface SENE 1470FNL 685FEL At proposed prod. zone	11. Sec., T., R., M., or Blk. and Survey or Area H Sec 36 T26N R4W Mer NMP
14. Distance in miles and direction from nearest town or post office*	12. County or Parish RIO ARRIBA / 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 / 17. Spacing Unit dedicated to this well 320.00
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 6178 MD / 20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KB, RT, GL, etc. 7080 GL	22. Approximate date work will start / 23. Estimated duration

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	Name (Printed/Typed) VICKI WESTBY	Date 08/31/2001
Title AUTHORIZED SIGNATURE		
Approved by (Signature) S W Anderson	Name (Printed/Typed)	Date OCT 5 2001
Title Asst Field Mgr	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 #6922 verified by the BLM Well Information System
For CONOCO INC., sent to the Rio Puerco
Committed to AFMSS for processing by Angie Medina-Jones on 08/31/2001 ()

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

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
30-039-26889	72319 / ~~71599~~	BLANCO MESAVERDE / ~~BASIN DAKOTA~~
4 Property Code	**5 Property Name**	**6 Well Number**
18019	JICARILLA B	15A
7 OGRID No.	**8 Operator Name**	**9 Elevation**
005073	CONOCO, INC.	7080'

10 Surface Location

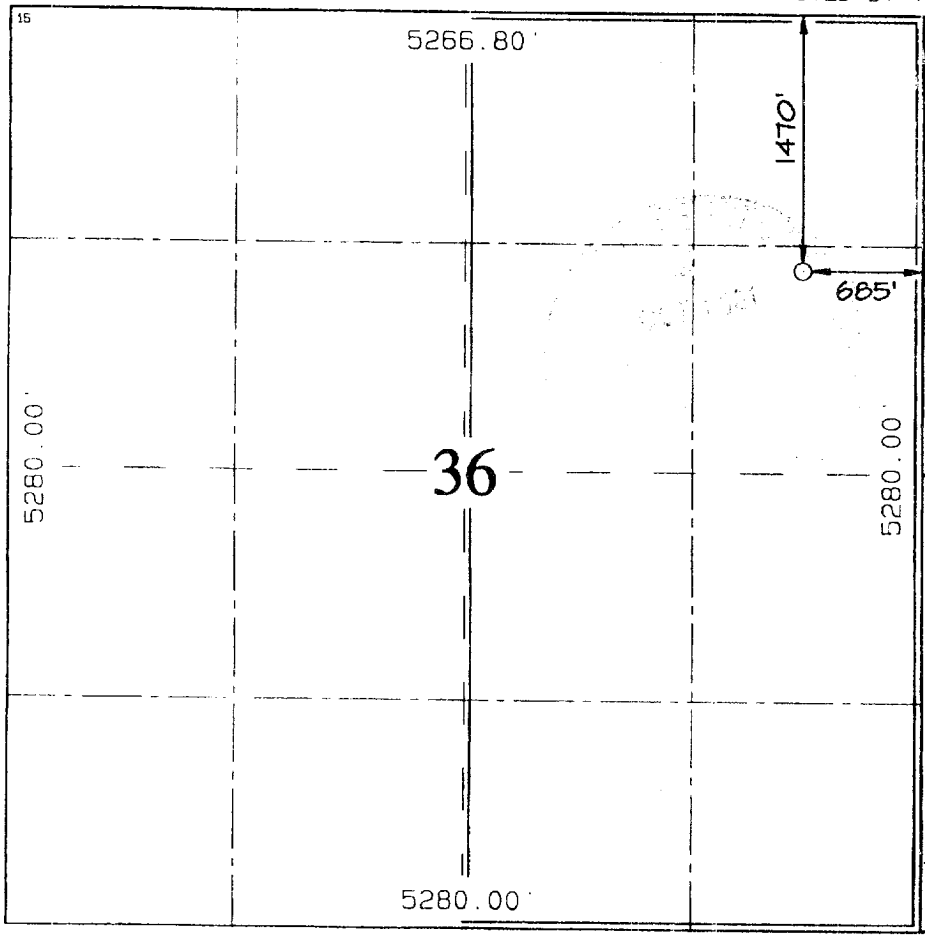
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	36	26N	4W		1470	NORTH	685	EAST	RIO ARRIBA

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.
320 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



17 OPERATOR CERTIFICATION

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

Signature

Kim Southall
Printed Name

Property Analyst
Title

June 13, 2001
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.

MAY 21, 2001
Date of Survey

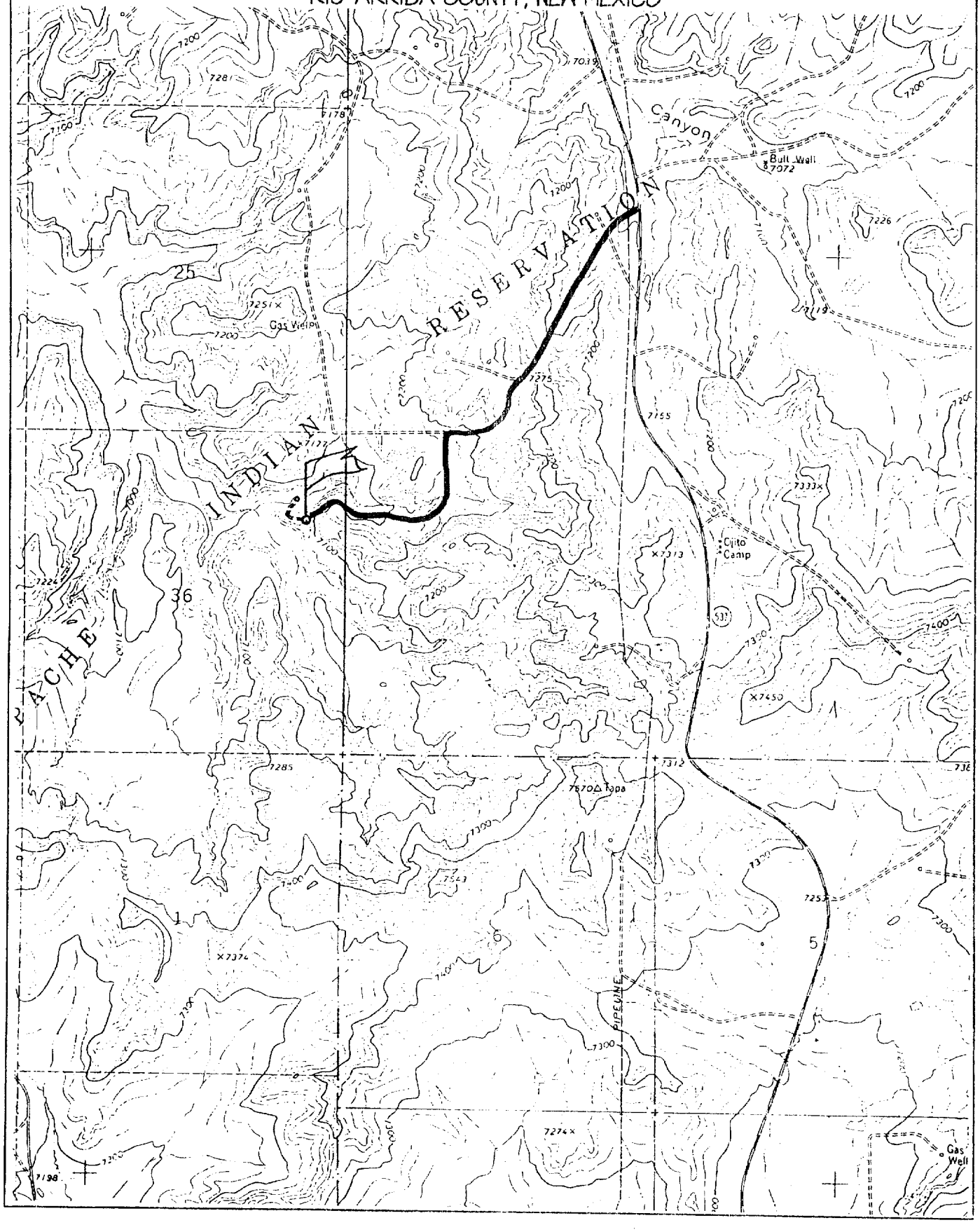
Signature and Seal of Professional Surveyor

NEALE C. EDWARDS
NEW MEXICO
6857
REGISTERED PROFESSIONAL SURVEYOR

Certificate Number 6857

CONOCO, INC. JICARILLA B #15A

1470' FNL & 685' FEL, SECTION 36, T26N, R4W, N.M.P.M.
RIO ARRIBA COUNTY, NEW MEXICO



PROJECT PROPOSAL - New Drill / Sidetrack

conoco

Well : JICARILLA B 15A | Lease : JICARILLA B | AFE # : | AFE $:

Field Name : JICARILLA | Rig : | State : NM | County : RIO ARRIBA | API # :

Geoscientist : Johnson, Tom B. | Phone : (281) 293 - 6551 | Prod. Engineer : Jennye Pusch | Phone : 281-293-5305

Res. Engineer : Riley, Steve | Phone : (281) 293-3967 | Proj. Field Lead : Valdez, Judson | Phone :

Primary Objective (Zones) :

Pool	Pool Name
RON	BLANCO MESAVERDE (PRORATED GAS)

Vertical Drill

Surface Location :

Latitude : 36.446111 | Longtitude : -107.1962 | X : | Y : | Section : 36 | Survey : 26N | Abstract : 4W

Footage X : 685 FEL | Footage Y : 1470 FNL | Elevation: 7083 (FT)

Bottom Hole Location :

Latitude : | Longtitude : | X : | Y : | Section : | Survey : | Abstract :

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

Formation Data : Assume KB = 7096 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	500	6596				Severe lost circulation is possible. 9 5/8", 36 ppf, J-55, STC casing. Circulate cement to surface. 12-25" hole
OJAM	3049	4047				Possible water flows"
KRLD/FRLD	3384	3712				
PCCF	3651	3445		325	128	Gas; Possible lost circulation
LEWS	3797	3299				
CHRA	4632	2464				
CLFH	5355	1741				Gas; possibly wet
MENF	5487	1609				Gas
PTLK	5828	1268		575		Gas
Total Depth	6178	918			170	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. 7 7/8" hole

Logging Program :

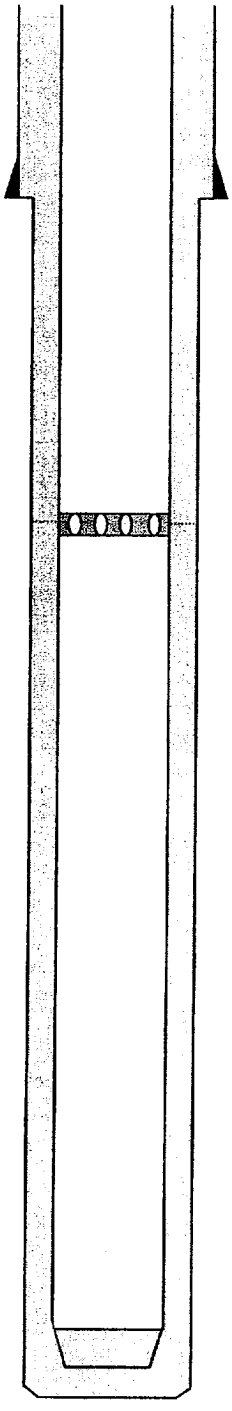
Intermediate Logs : | Log only if show | GR / ILD | Triple Combo

TD Logs : | Triple Combo | Dipmeter | RFT | Sonic | VSP | ☑ TDT

Additional Information : Logging company to provide a sketch with all lengths, OD's & ID's of all tools prior to running in the hole.

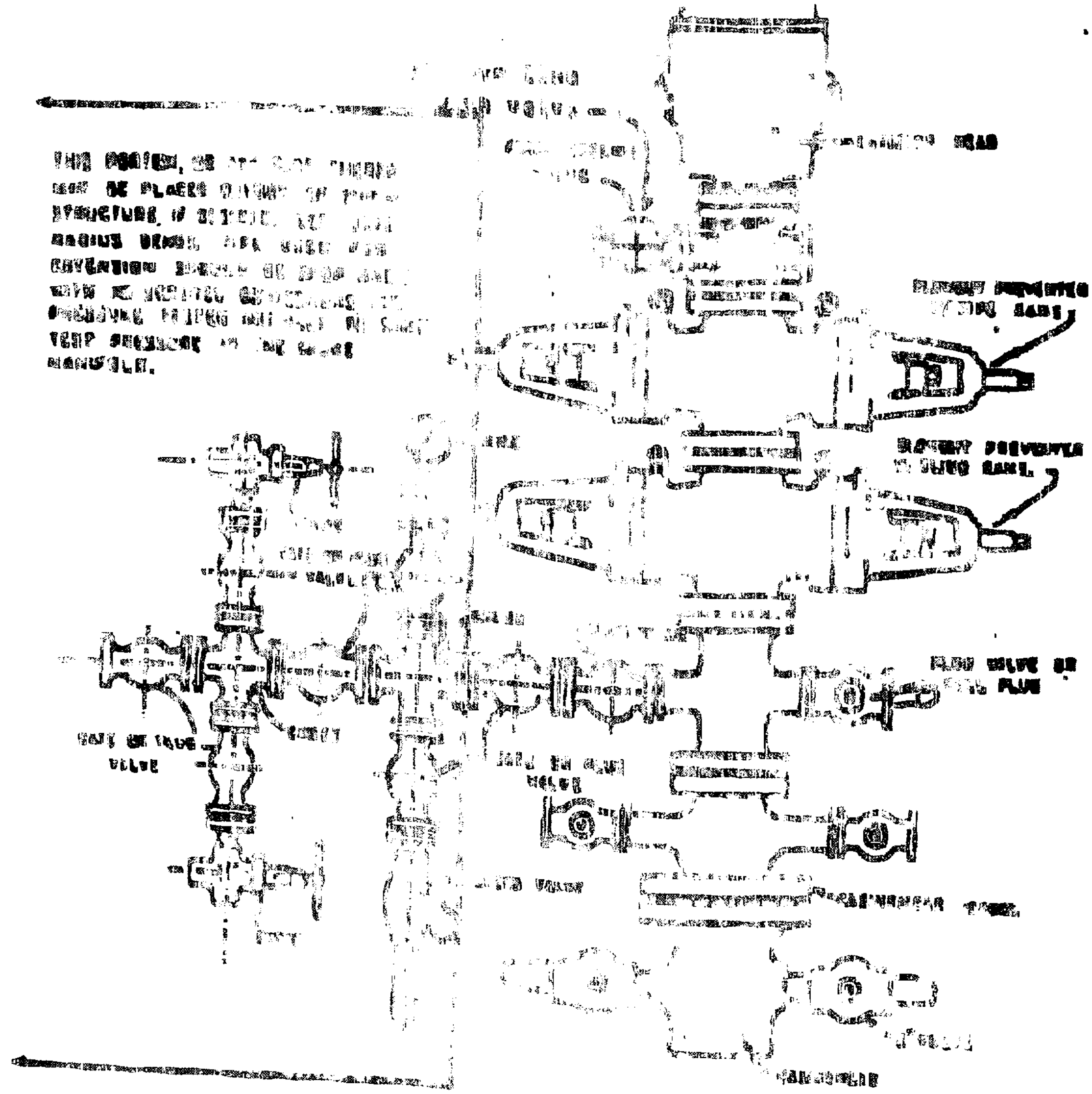
Cased hole TDT with GR to surface

Cementing Summary **Jicarilla B 15A**



	Depth	OH Excess				
9-5/8" Sfc Cs	0		Class 'A' Cement	287 sx	Slurry Volume	330.6 cu ft
			Flocele (if req'd)	0.25 lb/sk		58.9 bbl
			CaCl2	2.00% bwoc-db	Slurry Density	15.8 ppg
			Defoamer (if req'd)	0.05 gal/bbl	Slurry Yield	1.15 cu ft/sk
					Mix Fluid	5.0 gal/sk
9-5/8" shoe	500					
DV Tool #1	5,205					
Stage #2		60%	Blend	1455 sx		
			Class 'H' Cement	47 lb/sk	Slurry Volume	2473.9 cu ft
			San Juan Poz	24 lb/sk		440.6 bbl
			Bentonite	3.00% bwoc	Slurry Density	12.8 ppg
8-3/4" Open Hole			Halad-344	0.40% bwoc	Slurry Yield	1.70 cu ft/sk
			CFR-3	0.20% bwoc	Mix Fluid	8.26 gal/sk
			HR-5	0.10% bwoc		
			Silicalite-blended	20 lb/sk		
			Flocele	0.25 lb/sk		
			Defoamer (if req'd)	0.05 gal/bbl		
Stage #1		60%	Blend	315 sx		
			Class 'H' Cement	47 lb/sk	Slurry Volume	534.8 cu ft
			San Juan Poz	24 lb/sk		95.3 bbl
			Bentonite	3.00% bwoc	Slurry Density	12.8 ppg
			Halad-344	0.40% bwoc	Slurry Yield	1.70 cu ft/sk
			CFR-3	0.20% bwoc	Mix Fluid	8.26 gal/sk
			HR-5	0.10% bwoc		
			Silicalite-blended	20 lb/sk		
			Flocele	0.25 lb/sk		
			Defoamer (if req'd)	0.05 gal/bbl		
4-1/2" Csg Shoe	6,178					

Notes: 1) Conoco to verify DV depth and hole sizes.



BLOWOUT PREVENTER HOOKUP

Drilling contractors [illegible] in the San Juan Basin supply 3000 psi equipment, but cannot provide annular preventers because of substructure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. Please note the attached BOP diagram details 2000 psi equipment according to [illegible] Order No. 2 even though the equipment will test to 3000 psi. The 3000 psi system allows deletion of the annular preventer 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 minimum).
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 preventer.
11. Rotating head.

Cathodic Protection System Description

Anode Bed Type	Deep Well	
Hole Size	9"	
Hole Depth	200' - 500'	As required to place anodes below moisture and in low resistance strata.
Surface Casing	8" Diam., ≥ 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.
Vent Pipe	1" Diam. PVC	Vent pipe will extend from bottom of hole, through top of casing cap, and sealed with a 1" perforated PVC cap.
Type Of Anodes	Cast Iron Or Graphite	
Number Of Anodes	8 - 20	Sufficient quantity to achieve a total anode bed resistance of <1 ohm and a design life ≥ 20 years.
Anode Bed Backfill	Loresco SW Calcined Petroleum Coke Breeze	Installed from bottom of hole to 10' above top anode.
Anode Junction Box	8 - 20 Circuit Fiberglass Or Metal	Sealed to prevent insect & rodent intrusion.
Current Splitter Box	2 - 5 Circuit Metal	Sealed to prevent insect & rodent intrusion.
DC / AC Cable	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 arroyo's 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).
Power Source	1) Rectifier 2) Solar Power Unit 3) Thermoelectric Generator	Choice of power source depending on availability of AC & other economic factors.
External Painting	Color to be selected according to BLM specifications.	Paint applied to any surface equipment associated with the CP system which can reasonably be painted.