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

5. Lease Serial No. SF-078496

APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe	Name
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, N	Name and No.
1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Oth 2. Name of Operator Contact:	ner Single Zone Multiple Zone VICKI WESTBY	Lease Name and Well No. SAN JUAN 28-7 UNIT 19 API Well No.	90G
	E-Mail: Vicki.R.Westby@conoco.com	3003927	255
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 Explore BLANCO MESAVERD	atory
4. Location of Well (Report location clearly and in accorded	nnce with any State requirements.*)	11. Sec., T., R., M., or Blk. ar	nd Survey or Area
At surface NENE 300FNL 1165FEL At proposed prod. zone	TATE 16 17 18 79 79	A Sec 27 T28N R7W Me	er 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 and Lease	17. Spacing Unit dedicated to 320.00	this well
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	7761 MD	20. BLM/BIA Bond No. on fi	ile
21. Elevations (Show whether DF, KB, RT, GL, etc. 6588 GL	22. Approximate date work will start	23. Estimated duration	,
	24. Attachments		
The following, completed in accordance with the requirements or	f 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 Syst SUPO shall be filed with the appropriate Forest Service Off 	Item 20 above). Em Lands, the 5. Operator certification	ns unless covered by an existing formation and/or plans as may be	
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY		Date 12/11/2002
Title AUTHORIZED SIGNATURE			
Approved by (Signature)	Name (Printed/Typed)		Date 12/17/04
Title AFM	Office FFO		
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in the subject le	ase which would entitle the app	licant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or represental	make it a crime for any person knowingly and willfully to	o make to any department or age	ency of the United

Additional Operator Remarks (see next page)

Electronic Submission #16841 verified by the BLM Well Information System For CONOCO INC., sent to the Farmington

DRILLING 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

MWOCD

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

Oistrict II PO Drawer DD, Antesia, 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

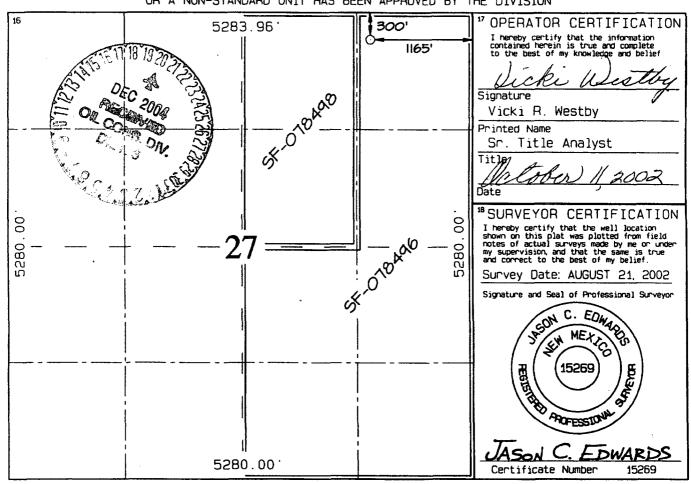
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back to Appropriate District Office

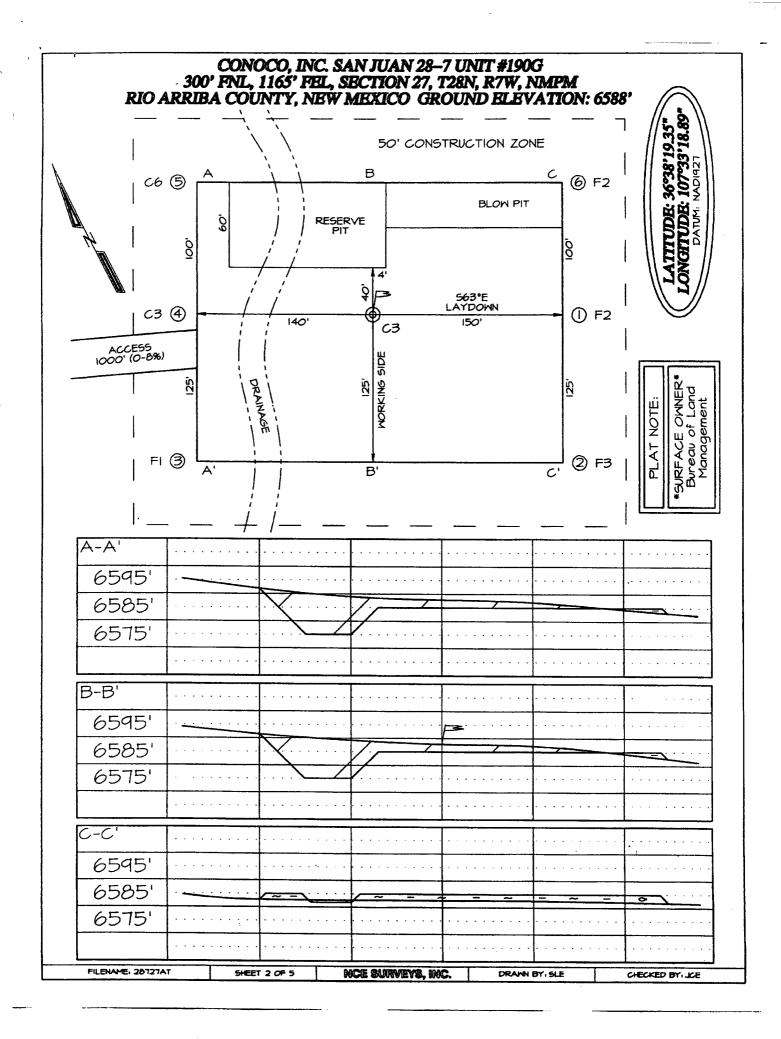
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

j 'AF	71 Number		'Po	ool Code			Pool Name			
3003	9-7	1255	72319	/ 7159	99	BLANCO MES	SAVERDE / E	BASIN	DAKOTA	4
Property	Code 1				Property	/ Name			•We	11 Number
-0166 0	ण्ड उ	1739	1	S	AN JUAN 2	28-7 UNIT			:	190G
'OGRID N	vio.				*Operator	Name			,E	levation
00507	73				CONOCO.	TNC		ì		5588 ·
0030	′				CONOCO,	1140.			,	2200
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
Α	27	28N	7W		300	NORTH	1165	EA	ST	RIO ARRIBA
	-	11 E	ottom		ocation I		From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County
320.0 Acres - (E/2) Deducated Acres - (E/2) Doint or Infall M Correctadation Code Grader No.										
NO ALLOW	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									





Form 3160-5 (August, 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

5. Lease Serial No. NMSF078496

abandoned wel	l. Use form 3160-3 (APL)) for such p	roposais.		o. If maint, thouse of	THOU HAIN
SUBMIT IN TRII	7. If Unit or CA/Agreen NMNM78413C	ment, Name and/or No.				
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Oth	8. Well Name and No. SAN JUAN 28-7 U	NIT 190G				
2. Name of Operator		VICKI WEST	BY		9. API Well No.	
CONOCÓPHILLIPS COMPAN			Westby@conoco	phillips.com	30-039-27255-00)-X1
3a. Address PO BOX 2197 WL3 6054 HOUSTON, TX 77252		3b. Phone No. Ph: 915.36	(include area code 8.1352	:)	10. Field and Pool, or I BASIN DAKOTA	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)			11. County or Parish, a	nd State
Sec 27 T28N R7W NENE 300	FNL 1165FEL				RIO ARRIBA CO	DUNTY, NM
12. CHECK APPE	ROPRIATE BOX(ES) TO	INDICATE	NATURE OF	NOTICE, R	EPORT, OR OTHER	DATA
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION		
Notice of Intent	☐ Acidize	□ Deep	pen	□ Product	tion (Start/Resume)	☐ Water Shut-Off
_	Alter Casing	☐ Frac	ture Treat	□ Reclam	ation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	□ New	Construction	□ Recomp	olete	Other Change to Original A
☐ Final Abandonment Notice	Change Plans	□ Plug	and Abandon	☐ Tempor	arily Abandon	Change to Original A PD
	Convert to Injection	□ Plug	Back	□ Water I	Disposal	
ConocoPhillips requests to ch documents.	ange the drilling plan for	this well as sl	nown in the atta		010 201 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
14. Thereby certify that the foregoing is	strue and correct. Electronic Submission # For CONOCOPH sitted to AFMSS for process	IILLIPS COMP	ANY, sent to the	e Farmington	1	
Name (Printed/Typed) VICKI WE	•	J	Title AGEN		(0-7-11-0-100-1)	
Signature (Electronic S			Date 08/18/2			
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE	
Approved By Dollar	nce ara		Title	FM		Date /17/04
Conditions of approval, if any, are attached certify that the applicant holds legal or equically which would entitle the applicant to conditions.	uitable title to those rights in the	s not warrant or e subject lease	Office Z	FO		
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a	crime for any p	erson knowingly ar	nd willfully to n	nake to any department or	agency of the United



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN	JU	AN	28-7	190	G

SAN JUAN 20-	1900											
Lease:				AF	E#:					AF	E \$:	
Field Name: EAST	28-7		Rig:	annagana aga gang pipin sharin sharin akka akka sharin sharin ka Makasa s			State:	NM	County: RIO ARRIBA	AP	I #:	
Geoscientist: Glas	er, Terry J		Phone:	(281) 293 - (6538	Prod.	Engineer:	Мо	ody, Craig E.	Phone	: (281) 293 -	- 6559
Res. Engineer: Val	vatne, Christ	ine K.	Phone:			Proj.	Field Lead:			Phone	: (281) 293 -	- 6517
Primary Objectiv	ë (Zones):					1,1	1.0				10.0	
Zone	Zone Name)			7							
FRR	BASIN DAK	OTA (PRORAT	TED GAS	S)	1							
RON	BLANCO ME	SAVERDE (P	RORAT	ED GAS)								
Location: Surface			e entre								Straight Hol	e
Latitude: 36.64	Longit	ude: -107.56	5	X:		Y:			Section: 27	200	Abstract: 7W	
Footage X: 1165 F		je Y: 300 FN		Elevation: 658	38	(FT)	Survey:	281	<u> </u>			
Tolerance:												
Location Type: Yea	r Round		Start D	ate (Est.):	to the second	Cor	npletion Da	ite:	Date In	Operat	ion:	
	Assume KB =	= 6601	Units =									
Formation Call &		Depth	SS	Depletion	BHP	1	T					
Casing Points		(TVD in Ft)		(Yes/No)	(PSIG)	BHT			Remarks			
Surface Casing		213	6388						9 5/8", 32.3 ppf, H-40,	STC ca	ising. Circula	te
OJAM		2421	4180	П			cement to Possible v					
KRLD		2571	4030	ă								
FRLD		3011	3590				Possible o	jas				
PCCF		3261	3340									
LEWS		3461	3140									
Intermediate Casing	!	3561	3040				8 3/4" Ho surface.	le. 7	", 20 ppf, J-55, STC Cas	sing. C	irculate ceme	ent to
CHRA		4186	2415	П			surface.					
CLFH		4876	1725	ō	1300		Gas; poss	ibly v	vet			
MENF		5021	1580				Gas	·				
PTLK		5451	1150				Gas					
MNCS		5701	900									
GLLP		6726	-125									
GRHN		7411	-810				Possible g	jas				
TWLS		7501	-900				Gas					
CBBO Total Donth		7626	-1025		222		Gas	,	4/00 44 6 - 6 4 66 -	-c ·	6	
Total Depth		7761	-1160	U	3000		a minimu	m of	1/2", 11.6 ppf, N-80, L 100' inside the previous	casing	string. No o	
Reference Wells:							noie logs.	<u> cas</u>	ed hole TDT with GR to	surtac	e.	te de la companya de
	Well Name		3.42	Comments								
76-1				1		· <u>-</u>						******
Logging Program	i:											
Intermediate Logs:	Log only	y if show 🔲	GR/ILD	Triple (Combo				AND THE PROPERTY OF THE PROPER		· · · · · · · · · · · · · · · · · · ·	
TD Logs:	Triple C	ombo 🔲 D	ipmeter	RFT [Sonic [VSP	Y IDT					
Additional Informat	ion:											

Comments: General/Work Description - Incomplete info to start AFE.**

Printed on: 8/18/2004 7:44:47 AM

San Juan 28-7 #190G

SURFACE CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight
Casing Grade
Shoe Depth
Cement Yield
Excess Cement
Cement Required

12,25 9,625	11 11	Casing Inside Diam. 9.001 "
32.8	ppf	
230	,	
1.16 125	cuft/sk %	
148	sx	

Casing Inside Diam. 6.456 "

SHOE

230 ', 9.625 ",

32.3 ppf,

H-40 STC

INTERMEDIATE CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight
Casing Grade
Shoe Depth
Lead Cement Yield
Lead Cement Excess
Tail Cement Length
Tail Cement Excess
Lead Cement Required
Tail Cement Required

8.75 "
20 ppf
3-55
3561 '
2.72 cuft/sk
150 %
712.2 '
1.31 cuft/sk
150 %
377 sx
212 sx

SHOE

3561 ',

7 "

20 ppf,

J-55 STC

PRODUCTION CASING:

Drill Bit Diameter
Casing Outside Diameter
Casing Weight
Casing Grade
Top of Cement
Shoe Depth
Cement Yield
Cement Excess
Cement Required

6:25	
4.5	" Casing Inside Diam. 4.000"
11.6	ppf
N-80	
3361	' 200' inside intermediate casing
7761	•
1 44	cuft/sk
50	%
465	sx

San	Juan 28-7 #190)G: : : : -	
	Surf. Csg	Int. Csg	Prod. Csg
OD SMILE IN THE	9.625	7	4.5
ID TO SEE THE	9.001	6.456	4.000
Depth 4	230	3561	7761
Hole Diam	12.25	8.75	6.25
% Excess Lead		150	
% Excess Tail	125	150	50
Lead Yield		+ 2.72	
Tall Yield	31.16	1.31	1:44
Ft of Tail Slurry	230	712.2	4400
Top of Tail Slurry	0	2848.8	3361
Top of Lead Slurry	N/A	0	N/A
Mud Wt (ppg)	8.9	9.0	air dril
Mud Type	WBM	WBM	air dril

	Surface (Casing			
Ft.	Cap	XS Factor	bbls	cuft	SX
With the state of	0.055804	of the control of the comment of the first	27.2	153.0	131.9
Shoe Track Volume 42	0.078735	1	3.3	. 18.6	16.0
Totals - Line Livering the last series and leaves			30.6	171.5	147.9

Intermediate Casing						
	Ft	Cap	XS Factor	bbls	cuft	SX
Lead Open Hole Annulus	2618.8	0.026775	2.5	175.3	984.2	361.8
Lead Cased Hole Annulus	230	0.031104		7.2	40.2	14.8
Léad Total has being the		Same and the	100	182.5	1024.4	376.6
Tail Open Hole Annulus	712.2	0.026775	2.5	47.7	267.7	204.3
Tail Shoe Track Volume	42	0.04049	MALES STATE	1.7	9.5	7.3
Tall Total		11.1000000	4.4	49,4	277,2	2116

	Production	Casing	
	t Cap	XS Factor bbls	cuft sx
Open Hole Annulus	4200 0.018275	1.5 115.1	646.4 448.9
Cased Hole Annulus	200 0.020818	1 4.2	23.4 16.2
Total Andrew Comments	0.00	119.3	669.8 465.1

	San Jua	an 28-7 #190G
	9-5/8 S	urface Casing
	Class G S	Standard Cement
Cement Recipe	+ 2% S00	1 Calcium Chloride
	+0.25 lb/s	x D029 Cellophane Flakes
Cement Volume	146	SX
Cement Yield	1.16	cuft/sx
Cement Volume	: 171.5	cuft.
Cement Density	15.8	ppg
Water Required	4.983	gal/sx
Compressive Stre	ngth .	
Sample cured at 6		8 hrs
12 hrs	1174	DSI
36 hrs	2763	DSI

San Juan 28-7 #190G

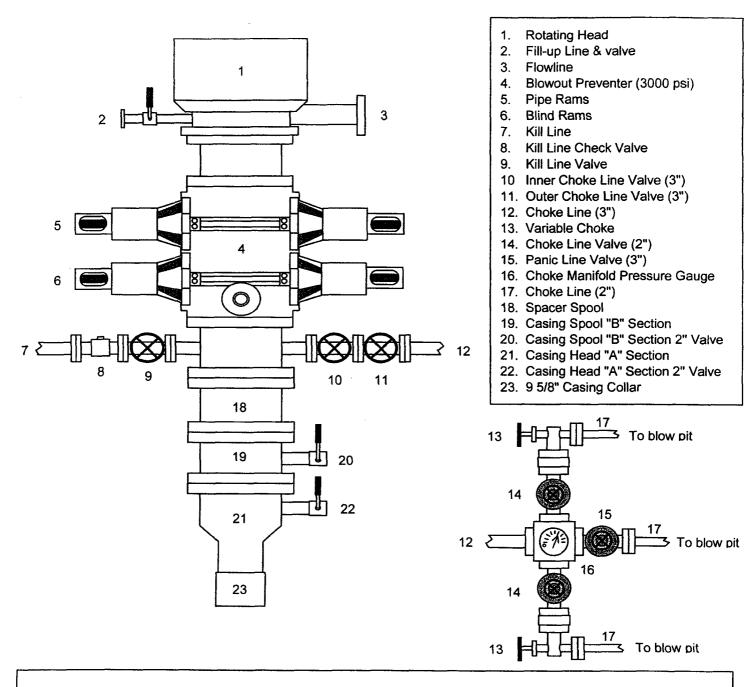
	7" Intermediate Casing		
n general visit i de antibes estánda el mente de la del General de la capacida de antibes estándos el mente de la del	Lead Slurry		
	Class G Standard Cement		
Cement Recipe	+0.25 lb/sx D029 Cellophane Flakes		
	+ 3% D079 Extender		
	+ 0.20% D046 Antifoam		
	+ 10 lb/sx Pheno Seal		
Cement Required	\$ 7 ∕ sx		
Cement Yield	2.72 cuft/sx		
Slurry Volume	1024.4 cuft		
	182.5 bbls		
Cement Density	11.7 ppg		
Water Required	15.74 gal/sx		
Compressive Strengt	h		
Sample cured at 140	deg F for 24 hrs		
2 hr 37 min	50 psi		
39 hr 40 min	500 psi		

	7" Intermediate Casing		
	Tail Slurry		
	50 / 50 POZ:Standard Cement		
	+0.25 lb/sx D029 Cellophane Flakes		
	+ 2% D020 Bentonite		
Cement Slurry	+ 1.5 lb/sx D024 Gilsonite Extender		
	+ 2% S001 Calcium Chloride		
	+ 0.10% D046 Antifoam		
	+ 6 lb/sx Pheno Seal		
Cement Required	212 sx		
Cement Yield	1.31 cuft/sx		
Slurry Volume	27.7.2 cuft		
Siurry volume	49.4 bbls		
Cement Density	13.5 ppg		
Water Required	5.317 gal/sx		
Compressive Strength			
Sample cured at 140 de	eg F for 24 hrs		
24 hr	908 psi		
48 hr	1950 psi		

	San Juan 28-7 #190G		
	4-1/2" Production Casing		
Cement Recipe	50 / 50 POZ:Class G Standard Cement		
	+0.25 lb/sx D029 Cellophane Flakes		
	+ 3% D020 Bentonite		
	+ 1.0 lb/sx D024 Gilsonite Extender		
	≠ 0.25% D167 Fluid Loss		
	+ 0.15% D065 Dispersant		
	+ 0.1% D800 Retarder		
	+ 0.1% D046 Antifoamer		
	+ 3.5 lb/sx PhenoSeal		
Cement Quantity	465 sx		
Cement Yield	1.44 cuft/sx		
Cement Volume	669.8 c uft		
	II: 1193		
Cement Density	13 ppg		
Water Required	6:43 gal/sx		
Compressive Stren	igth		
Sample cured at 20			
6 hr 35 min	500 psi		
24 hr	2373 psi		

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BLOWOUT PREVENTER HOOKUP



Drilling contractors used in the San Juan Basin suppy 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 thought 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

Anode Bed Type	Deep Well	
Hole Size	3.	
Hole Depth	200 200.	As required to place anodes below moisture and in low resistance strata.
Surface Casing	B" 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 ancountered.
Vent Pipe) * Dism. PVC	Vent pipe will extend from bottom of hole, through top of easing 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 Bad Backfill	Loresco SW Calcined Petroleum Coke Braeze	installed from bottom of hole to 10' above top anade.
Anode Junction Box	8 - 20 Circult Fiberglass Or Metal	Sealed to provent insact & radent immusion.
Current Splitter Box	2 - 5 Circuit Metal	Sealed to prevent insect & rodant intrusion.
DC / AC Cable	DC: #2, #4, #8, #8 Stranded Copper (One Size Or Any Combination Oil With High Molecular Weight Polyethylans (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 transhing is in extramely hard substratum, depth will be 6 - 12" with cable installed in conduit. Installed above foreign pipellnes 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	11 Rectifler 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.