\* Form 3160-3 (August 1999)

# UNITED STATES DEPARTMENT OF THE INTERIOR BURGALL OF LAND MANAGEMENT

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

BUREAU OF LAND N	5. Lease Serial No. SF-078498					
APPLICATION FOR PERMIT 1	6. If Indian, Allottee or Tribe Name					
la. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.				
lb. Type of Well: ☐ Oil Well     ☐ Oth	er Single Zone 🔀 Multiple Zone	8. Lease Name and Well No. SAN JUAN 28-7 UNIT 191G				
	VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com	9. API Well No. 30 039 27060				
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/BASIN DAKO				
4. Location of Well (Report location clearly and in accordance	nnce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area				
At surface SWNE 2145FNL 1960FEL At proposed prod. zone	78910117	Sec 33 T28N R7W Mer NMP				
14. Distance in miles and direction from nearest town or post	office* DEC 2002	12. County or Parish RIO ARRIBA 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 COLIVED STORY OIL CONS. DIV.	17. Spacing Unit dedicated to this well 316.32				
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Digith	20. BLM/BIA Bond No. on file				
21. Elevations (Show whether DF, KB, RT, GL, etc. 6634 GL	22. Approximate date work will start	23. Estimated duration				
	24. Attachments					
The following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:				
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	Item 20 above).  5. Operator certification	formation and/or plans as may be required by the				
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 08/07/2002				
Title AUTHORIZED SIGNATURE						
Approved by (Signature)  /s/ David J. Mankiewicz	Name (Printed/Typed)	DEC - 6 2002				
Title	Office	· · · · · · · · · · · · · · · · · · ·				
Application approval does not warrant or certify the applicant hoperations thereon.	olds legal or equitable title to those rights in the subject	lease which would entitle the applicant to conduct				
Conditions of approval, if any, are attached.						

Additional Operator Remarks (see next page)

Electronic Submission #13426 verified by the BLM Well Information System For CONOCO INC., sent to the Farmington

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

\*\* 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

5280.001

State of New Mexico Energy, Minerals & Natural Resources Department

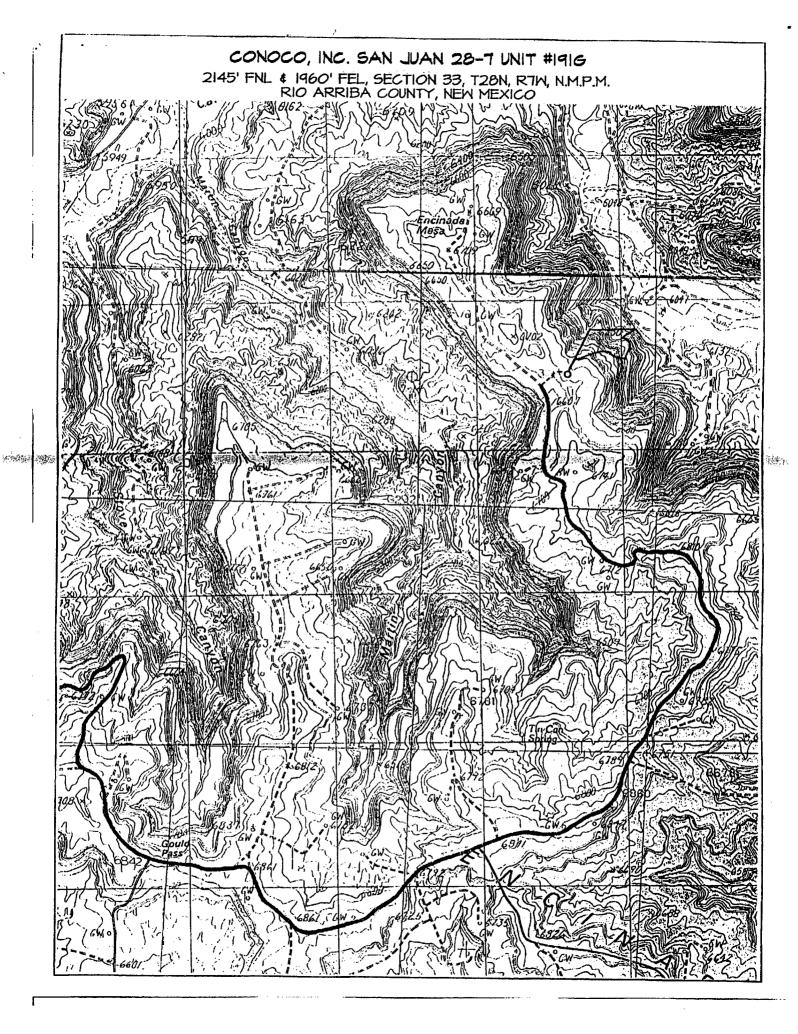
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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.	LOCATI	ON AND AC	CREAGE DEDI	CATION PL	_AT		
l	30-03	I Number 9- Z			ool Code / 7159	19	Pool Name BLANCO MESAVERDE / BASIN DAKOTA				
	Property ( 01660	Code		w			1 Number 916				
	'0GRID N 00507					*Operator CONOCO,			*Elevation 6634 '		
		<u></u>		······································	10	<sup>o</sup> Surface	Location				
	G G	Section 33	Township 28N	Ranga 7 W	Lot Idn	Feet from the	NORTH	Feet from the 1960	East/West		County RIO ARRIBA
				ottom		ocation I		From Surt	face		
	UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West	t line	County
i	12 Oedicated Acres	316	32 Acres	s - (E,		13 Joint or Infill	<sup>14</sup> Consolidation Code	<sup>53</sup> Order No.	1		
or or straight to	in and the remediates	er suittelikker	orone gastile (suga	Marketter (2-7)	6-9282-965	e the mark the Police of the	OFF WARRINGS WAR		SOMERSELLS	je uso <del>1</del> 00 tr	Pour Calendaria
	NO ALLOWA	ABLE W	OR A	ISSIGNEI NON-ST	ANDARD U	S'COMPLETIO	ON UNTIL ALL. EN APPROVED	INTERESTS BY THE DIVI	SION	EN CONS	SOL IDATED
,	OO			52	280.00	NO DEC 2	002	I hereb contain to the Signatur	y certify the decretion is best of my	nat the in true and knowledge	FICATION formation complete and belief
	2640.					OIL CO	STALL V	Title Date	itle Ar	t 1, e	300Z
		<del>-</del>	<u> </u> —		33 -		1960'	I hereby shown on notes of my super- and corre	certify that this plat w actual survey vision, and t ect to the b	t the well was plotted eys made t hat the s est of my	ICATION location from field by me or under sme is true belief.
	1320.00					SF-07	18498 	Signature	and Seal o	EDWAR AEXIC	
	. LO1	4	LO	т 3	38.	12 .07 2	38.20 LOT 1	. 261.92	157	269) ESSIGNA	E C

Certificate Number



## PROJECT PROPOSAL - New Drill / Sidetrack

Conoco

#### **SAN JUAN 28-7 191G**

(Not Accioned)

San Juan Business Unit

	Lease:			AFE	#:		,	NFE \$:	
Proi. Field Lead   Bergman, Pat W.   Phone   Proi. Field Lead   Bergman, Pat W.   Phone   (281)	Field Name: EAST	28-7	Rig:			State: NM	County: RIO ARRIBA	API#:	
	Geoscientist: Gl	aser, Terry )	Phon	ie (281)	293 - 6538	Prod. Engine	er Moody, Craig E.	Phone :	(281) 293 -
	Res. Engineer: Va	Ivatne, Christine K.	Phon	ne		Proj. Field Lo	ead Bergman, Pat W.	Phone:	(281) 293 -
	Primary Objectiv	e (Zones).	at year						
FRR   BASIN DAKOTA (PRORATED GAS)	The state of the s		2. At 3. CO CO						
Latitude   36.52		BASIN DAKOTA (P	RORATED	GAS)		$\mu \Omega$ .	1) 100 04		
Latitude   36.62	RON	BLANCO MESAVER	RDE (PRO	RATED GA	S)	THE	Drilled		
Footage X : 1960   FEL	Locations unfac				Here exist.				
Tolerance   Completion Date   Year Round   Start Date (Est.)   Completion Date   Date In Operation								Ab	stract: 7W
Coation Type : Year Round	<del></del>	EL Footage Y:	2145 FNL	Elevation	n: 6634	(FT)   Surve	: 28N		
Formation Data	Tolerance			···		*****			
Formation Data	Location Type: Ye	ar Round St	art Date (	Est.)		Completion D	ate: Dat	te In Operation	:
Formation Call &   Depth   Casing Points   C			•	•					
Casing Points   (TVD in Ft)   (Ft)   (Yes/No)   (PSIG)   BHT   Remarks					I nun I				
Surface Casing 200 6447						внт	Rem	arks	
DJAM   2347   4300				(103),10)	(/310)				
Case	Surface Casing	200	644/	Ш		Seve	ere lost circulation is possib	ole. 12 1/4" Ho	le. 9 5/8", 3
OJAM								i to 500 psi. Ci	rculate
RRLD   2497   4150	OJAM	2347	4300	П					A-T-1
FRLD       2967       3680       □       Possible gas         PCCF       3217       3430       □         LEWS       3417       3230       □         Intermediate Casing       3517       3130       □       8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate to surface. Will test to 1500 psi.         CHRA       4167       2480       □       Gas; possibly wet         CLFH       4862       1785       □       Gas         PTLK       5007       1640       □       Gas         PTLK       5462       1185       □       1300       Gas         MNCS       5712       935       □       Gas         GLLP       6707       -60       □       Gas possible, highly fractured         TWLS       7457       -810       □       Gas         CBBO       7587       -940       □       Gas         CBBO       7587       -940       □       Gas         Total Depth       7722       -1075       □       3000       4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. Nole logs. Cased hole TDT with GR to surface.					٠.	, 00.	iole water novis		
PCCF   3217   3430		2967	3680			Poss	ible gas		
LEWS       3417       3230       □         Intermediate Casing       3517       3130       □       8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate to surface. Will test to 1500 psi.         CHRA       4167       2480       □         CLFH       4862       1785       □       Gas; possibly wet         MENF       5007       1640       □       Gas         PTLK       5462       1185       □       1300       Gas         MNCS       5712       935       □         GLLP       6707       -60       □         GRHN       7372       -725       □       Gas possible, highly fractured         TWLS       7457       -810       □       Gas         CBBO       7587       -940       □       Gas         Total Depth       7722       -1075       □       3000       4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. No hole logs. Cased hole TDT with GR to surface.	PCCF		3430	<b>建筑的企业</b> 。2	ANT THE MAN				
CHRA         4167         2480         □           CLFH         4862         1785         □         Gas; possibly wet           MENF         5007         1640         □         Gas           PTLK         5462         1185         □         1300         Gas           MNCS         5712         935         □         Gas           GLLP         6707         -60         □         Gas possible, highly fractured           TWLS         7457         -810         □         Gas           CBBO         7587         -940         □         Gas           Total Depth         7722         -1075         □         3000         4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. No hole logs. Cased hole TDT with GR to surface.    Reference Wells	LEWS	3417			<del></del>				and the supplementation of
CHRA         4167         2480         □           CLFH         4862         1785         □         Gas; possibly wet           MENF         5007         1640         □         Gas           PTLK         5462         1185         □         1300         Gas           MNCS         5712         935         □         Gas           GLLP         6707         -60         □         Gas possible, highly fractured           TWLS         7457         -810         □         Gas           CBBO         7587         -940         □         Gas           Total Depth         7722         -1075         □         3000         4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. No hole logs. Cased hole TDT with GR to surface.	Intermediate Ca	sing 3517	3130		············	8.3/	4" Hole. 7", 20 ppf, 1-55.	STC Casing, Ci	rculate ceme
CHRA       4167       2480       □         CLFH       4862       1785       □       Gas; possibly wet         MENF       5007       1640       □       Gas         PTLK       5462       1185       □       1300       Gas         MNCS       5712       935       □         GLLP       6707       -60       □         GRHN       7372       -725       □       Gas possible, highly fractured         TWLS       7457       -810       □       Gas         CBBO       7587       -940       □       Gas         Total Depth       7722       -1075       □       3000       4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. Note logs. Cased hole TDT with GR to surface.     Reference Wells		<b>-</b>		_		to s	urface. Will test to 1500 ps	si.	rodiace cerrici
MENF         5007         1640         □         Gas           PTLK         5462         1185         □         1300         Gas           MNCS         5712         935         □           GLLP         6707         -60         □           GRHN         7372         -725         □         Gas possible, highly fractured           TWLS         7457         -810         □         Gas           CBBO         7587         -940         □         Gas           Total Depth         7722         -1075         □         3000         4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. N hole logs. Cased hole TDT with GR to surface.           Reference:Wells:	CHRA	4167	2480						
PTLK         5462         1185         ☐ 1300         Gas           MNCS         5712         935         ☐           GLLP         6707         -60         ☐           GRHN         7372         -725         ☐         Gas possible, highly fractured           TWLS         7457         -810         ☐         Gas           CBBO         7587         -940         ☐         Gas           Total Depth         7722         -1075         ☐         3000         4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. N hole logs. Cased hole TDT with GR to surface.    **Ceremos-Wells:	CLFH	4862	1785			Gas	possibly wet		
MNCS         5712         935         □           GLLP         6707         -60         □           GRHN         7372         -725         □         Gas possible, highly fractured           TWLS         7457         -810         □         Gas           CBBO         7587         -940         □         Gas           Total Depth         7722         -1075         □         3000         4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. N hole logs. Cased hole TDT with GR to surface.    **Reference-Wells*	MENF	5007	1640						
GLLP 6707 -60	PTLK	5462	1185		1300	Gas			
GRHN 7372 -725	MNCS	5712	935						
TWLS 7457 -810 Gas  CBBO 7587 -940 Gas  Total Depth 7722 -1075 3000 4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. Note hole logs. Cased hole TDT with GR to surface.  Reference:Wells:	GLLP	6707	-60					· · · · · · · · · · · · · · · · · · ·	
TWLS 7457 -810 Gas  CBBO 7587 -940 Gas  Total Depth 7722 -1075 3000 4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. N hole logs. Cased hole TDT with GR to surface.  Reference Wells:	GRHN	7372	-725			Gas	possible, highly fractured		
CBBO 7587 -940	TWLS	7457	-810				, , ,		***************
Total Depth 7722 -1075 3000 4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement minimum of 100' inside the previous casing string. No hole logs. Cased hole TDT with GR to surface.  Reference:Wells:	СВВО	7587	-940						
Reference:Wells:	Total Depth	7722	-1075		3000	4 1/ mini	mum of 100' inside the pre	vious casing st	ring. No ope
	Peference Walle		HAVA		Selection of the select				18 18 18 18 18 18 18 18 18 18 18 18 18 1
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## **PROJECT PROPOSAL - New Drill / Sidetrack**

**SAN JUAN 28-7 191G** 

(Not Accinnad) San Juan Business Unit

Intermediate Logs:	Log only if show	GR / ILD	Triple	e Combo			
TD Logs :	Triple Combo	☐ Dipmeter	RFT	Sonic	☐ VSP	<b>☑</b> TDT	Other
Additional Information							
				W.1. 14			d in well #1. Currently the Kmv in well#1 is

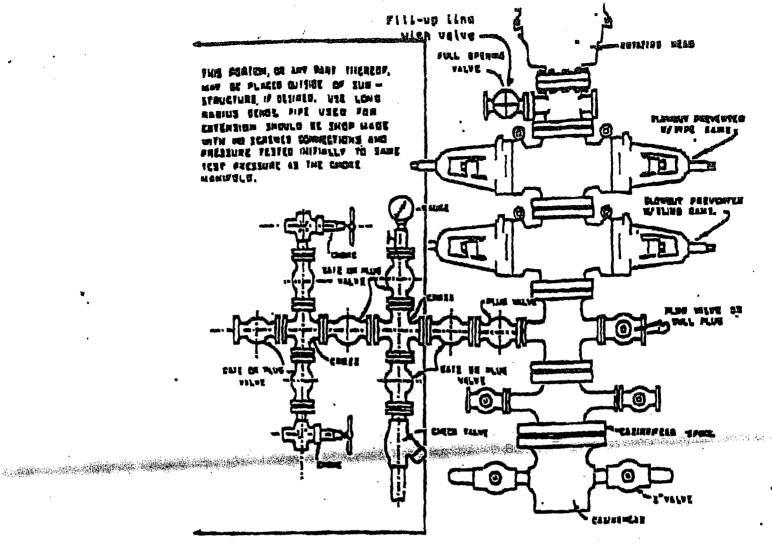


#### **Cementing Summary**

San Juan 28-7 191G (v1.0)

	Depth	OH Excess	<u> </u>				
9-5/8" Sfc Casing 9-5/8" shoe	200	100%	50:50 Poz Standard Cement San Juan Poz Gel (Bentonite) Gilsonite CaCl2 Flocele Defoamer (if req'd)	47 lb/sk 34 lb/sk 2.0% bwoc-db 5.0 lb/sk 3.0% bwoc-db 0.25 bwoc-db	Slurry Volume Slurry Density Slurry Yield Mix Fluid	142.6 cu ft 25.4 bbl 13.5 ppg 1.34 cu ft/sk 5.35 gal/sk	
7" Lead Ceme	nt	150%	Standard Cement Standard Cement San Juan Poz Econolite CaCl2 Bentonite-Gel	376.57 sx 94 lb/sk lb/sk 3.0% bwoc bwoc bwoc	Slurry Volume Slurry Density Slurry Yield Mix Fluid	1092.1 cu ft 194.5 bbl 11.4 ppg 2.9 cu ft/sk 16.78 gal/sk	
7" Top of Tail		ks Sekil Seksen	Flocele Gilsonite Defoamer (if req'd)				
7" Tail Cement			50:50 Poz Standaro Standard Cement San Juan Poz Econolite CaCl2 Bentonite-Gel Flocele Gilsonite Defoamer (if req'd)	155.65 sx 47.0 bwob 34.0 lb/sk bwob 2.00% bwob 2.00% bwob 0.25 lb/sk 5.0 lb/sk	Slurry Volume Slurry Density Slurry Yield Mix Fluid	207.0 cu ft 36.9 bbl 13.5 ppg 1.33 cu ft/sk 5.32 gal/sk	and the second seco
7" Casing Intermediate	3,517	150%					
4.5" Cement		50%	Blend Standard Cement San Juan Poz Bentonite CFR-3 Halad-9 HR-5 Gilsonite Flocele Defoamer (if req'd)	523.95 sx 47 lb/sk 37 lb/sk 3.00% bwob 0.20% bwoc 0.80% bwoc 0.10% bwoc 5.0 lb/sk 0.25 lb/sk 0.05 gal/bbl	Slurry Volume Slurry Density Slurry Yield Mix Fluid	765.0 cu ft 136.2 bbl 13.0 ppg 1.46 cu ft/sk 6.42 gal/sk	
4-1/2" Casing Production	7,722	50%					
Conoco to veri	fy casing	depths					

Note:



### BLOWOUT PREVENTER HOOKUP

Drilling contractors used in the San Juan Basing supply 1000 psi equipment, but cannot provide annular preventors because of substructure limitations. Maximum enticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. Please see the attached Boy diagram details 2000 psi equipment according to Onshore Order No. 2 even though the aquipment will test to 1000 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:

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

# Cathodic Protection System Description

Anode Bed Type	Deep Well				
Hole Size	а.				
Hole Depth	200° - 500°	As required to place anodes below moisture and in law resistance strate.			
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	1 * Olam, PVC	Vent sipe will extend from bottom of hole, through top of easing cap, and sealed with a 1° perforated PVC cap.			
Type Of Anodes	Cast Iron Dr Graphite				
Number Of Anodes	8 - 20	Sufficient quantity to achieve a total anode bed resistance of $< 1$ ohm and a design life $\ge 20$ years.			
Anode Bed Backfill	Loresco SW Calcined Petroleum Coke Braeze	Installed from bottom of hole to 10' above top			
Anode Junction Box	8 - 20 Circult Fibergless Or Metal	Sezied to provent insact & radent intrusion.			
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 Of) With High Molecular Weight Polyethylene (HMWPE) Insulation.  AC: #8 Stranded Copper HMWPE	18" depth in typical situation. 24" depth in readway. & 36" depth in arrays's and streams. EXCEPTION: If transhing is in extremely hard substratum, depth will be 6 - 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	11 Rectifler 21 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.			

**高端型的水流**中。1000年

NAME OF