

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0136  
Expires February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a TYPE OF WORK

DRILL ☒

DEEPEN ☐

b TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2 NAME OF OPERATOR

Conoco Inc.

3 ADDRESS AND TELEPHONE NO.

10 Desta Drive, Suite 649W, Midland, TX 79705; 915/686-5565

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements\*)

At surface

1330' FSL & 1675' FEL 1930 FSL 1980 FEL

At proposed prod. Zone

1330' FSL & 1675' FEL 1930 FSL 1980 FEL

14 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

15 DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drg. Unit line, if any)

18 DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,

OR APPLIED FOR, ON THIS LEASE, FT.

21 ELEVATIONS (Show whether DF, RT, GR, etc.)

6240 6237'

6 NO. OF ACRES IN LEASE

7 NO. OF ACRES ASSIGNED

TO THIS WELL

8 PROPOSED DEPTH

7089'

9 PROPOSED DEPTH

7089'

10 PROPOSED DEPTH

7089'

11 PROPOSED DEPTH

7089'

12 PROPOSED DEPTH

7089'

13 PROPOSED DEPTH

7089'

14 PROPOSED DEPTH

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34 PROPOSED DEPTH

7089'

35 PROPOSED DEPTH

7089'

36 PROPOSED DEPTH

7089'

37 PROPOSED DEPTH

7089'

38 PROPOSED DEPTH

7089'

5 LEASE DESIGNATION AND SERIAL NO

SF 078048

6 IF INDIAN, ALLOTTEE OR TRIBE NAME

7 UNIT AGREEMENT NAME

23642

8 FARM OR LEASE NAME WELL NO

Pork Chop Federal 27 #2E

9 API WELL NO

30-039-26719

10 FIELD AND POOL, OR WILDCAT

Basin Dakota

11 SEC., T., R., M., OR BLK

AND SURVEY OR AREA

Sec. 27, T26N, R7W

12 COUNTY OR PARISH

Rio Arriba Co.

13 STATE

NM

14 NO. OF ACRES ASSIGNED

TO THIS WELL

320.0 S/2

15 ROTARY OR CABLE TOOLS

Rotary

22 APPROX. DATE WORK WILL START\*

05/18/01

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12.25"	J-55; 9-5/8"	36#	500'	238 sxs, circ.
8.75"	J-55, 4 1/2"	10.5#	7089' -	569 sxs, <del>100' @ 100'</del> Circ

It is proposed to drill a vertical wellbore in the Dakota Pool. DHC application will be filed with the BLM and NMOCD. The well will be drilled and equipped according to the following additional attachments:

1. Well Location & Acreage Dedication Plat (C-102).
2. Proposed Well Plan Outline.
3. Cementing Plan.
4. Blowout Preventer Hookup.
5. Surface Use Plan.
6. Production Facility Layout.

This notice is hereby given that the proposed well is subject to a procedural review pursuant to 43 CFR 3103.3 and appeal pursuant to 43 CFR 3103.4.

This application includes ROW's for the well pad, access road, cathodic protection and pipeline.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED [Signature] TITLE Analyst

DATE 03/16/01

(This space for Federal or State office Use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that 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:

APPROVED BY /s/ Lee Otterli

TITLE Fm

DATE 7-25-01

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

BLM/DO

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 abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. SF 078048
2. Name of Operator CONOCO INC.		6. If Indian, Allottee or Tribe Name
3a. Address 10 DESTA DRIVE, SUITE 607W MIDLAND, TX 79705		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 915.686.5565 Fx: 915.686.6503		8. Well Name and No. PORK CHOP FED 27 2E
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T26N R7W Mer NWSE		9. API Well No. 3003926719
		10. Field and Pool, or Exploratory BASIN DAKOTA
		11. County or Parish, and State RIO ARRIBA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> APDCH
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

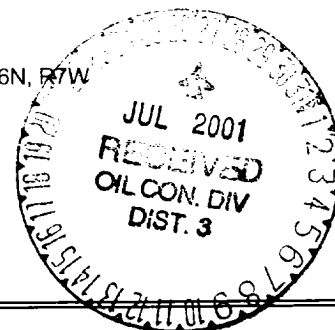
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BLM requested that this location be moved from the originally staked footages.

Conoco Inc. requests authorization to relocate the originally submitted well location.

An APD was originally submitted on 3/16/01 at this location: 1330' FSL - 1675' FEL, Section 27, T26N, R7W

Newly requested staked location: 1930' FSL - 1980' FEL, Section 27, T26N, R7W



14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #4855 verified by the BLM Well Information System For CONOCO INC., sent to the Farmington Committed to AFMSS for processing by Maurice Johnson on 06/13/2001 ()	
Name (Printed/Typed) KIM SOUTHALL	Title SUBMITTING CONTACT
Signature	Date 06/07/2001

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <u>/s/ Lee Otteri</u>	Title <u>FM</u>	Date <u>7-25-01</u>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office

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.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

District I  
PO Box 1980, Hobbs, NM 86241-1980

District II  
PO Drawer 10, Artesia, NM 86211-0719

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 <b>30-039-26719</b>		2 Pool Code 71599	3 Pool Name BASIN DAKOTA	
4 Property Code <b>23642</b>		5 Property Name PORK CHOP FEDERAL 27		6 Well Number 2E
7 GRITD No 005073		8 Operator Name CONOCO, INC.		9 Elevation 6237'

10 Surface Location

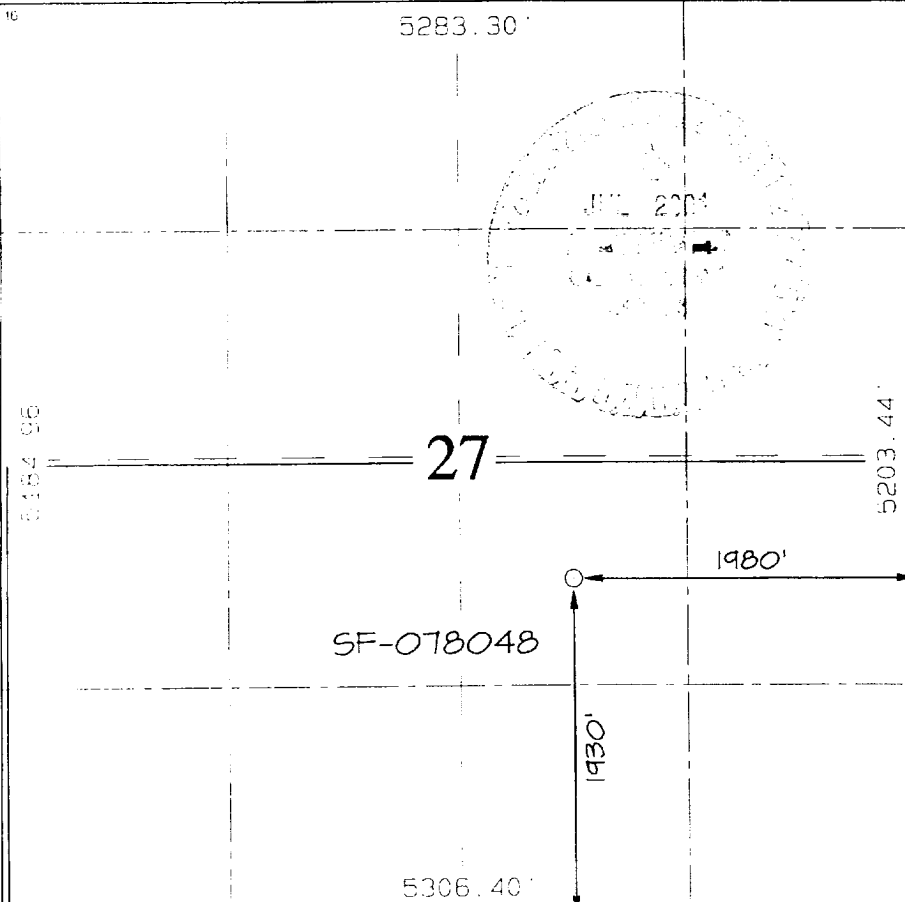
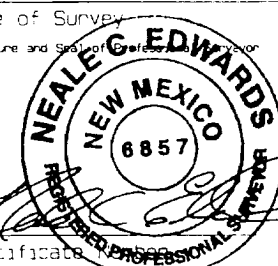
10.1 U. or Lot No. J	10.2 Section 27	10.3 Township 26N	10.4 Range 7W	10.5 Lot Idn	10.6 Feet from the 1930	10.7 North/South line SOUTH	10.8 Feet from the 1980	10.9 East/West line EAST	10.10 County RIO ARriba
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11 Bottom Hole Location If Different From Surface

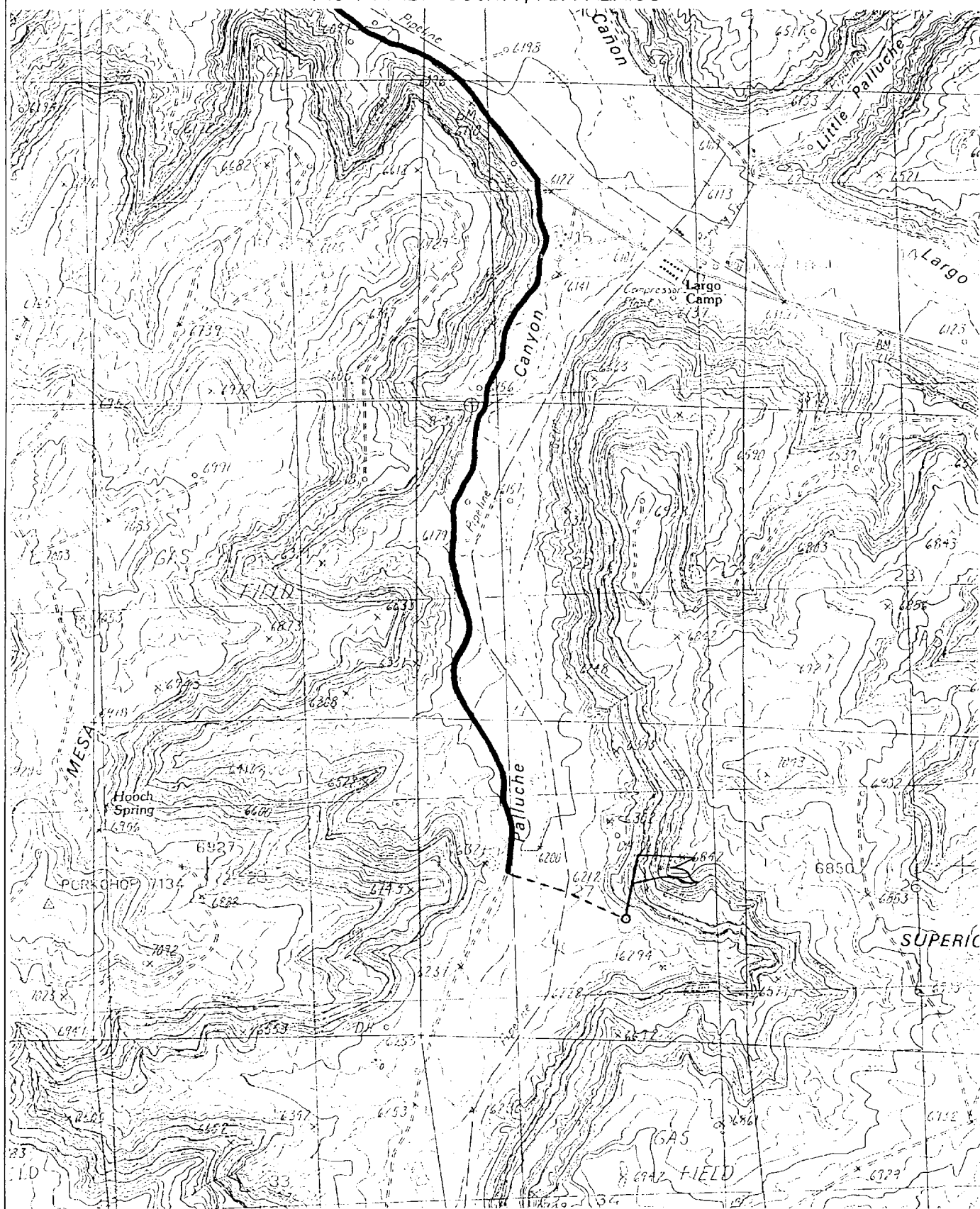
11.1 U. or Lot No.	11.2 Section	11.3 Township	11.4 Range	11.5 Lot Idn	11.6 Feet from the	11.7 North/South line	11.8 Feet from the	11.9 East/West line	11.10 County
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12 Dedicated Acres 320.0 Acres - S/2	13 Joint or Infill	14 Consolidation Code	15 Order 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

	<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature <u>Kim Southall</u> Printed Name Kim Southall Title Property Analyst Date <u>June 7, 2001</u>
	<b>18 SURVEYOR CERTIFICATION</b> 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 20, 2001 Date of Survey Signature and Seal of Surveyor 
	Certificate No. <u>6857</u>

1930' FSL & 1980' FEL, SECTION 27, T26N, R7W, N.M.P.M.  
RIO ARRIBA COUNTY, NEW MEXICO





9-5/8" Surface Casing

Porkchop Fed 27-2E

	<u>Depth</u>	<u>Excess</u>	<- Inner ->		<- Outer ->		<u>cu ft/ft</u>	<u>bbl/ft</u>	<u>cu ft</u>	<u>bbl</u>
			<u>OD</u>	<u>ID</u>	<u>OD</u>	<u>ID</u>				
RKB / Surface	0									
Displacement					9.625	8.921	0.4341	0.0773		35.6
OH Volume		100%	12.25	12.25	9.625	8.921	0.3132	0.0558	313.2	
Shoe Track Casing TD	460 500	0%			9.625	8.921	0.4341	0.0773	17.4	
TOTAL TAIL SLURRY (CU FT)									330.6	
TOTAL DISPLACEMENT VOLUME (BBL)										35.6

MAIN CEMENT SLURRY

Class 'A' Cement		287 sx	Slurry Volume	331 cu ft
Flocele (if req'd)	0.25 lb/sk	71.9 lbs		58.9 bbl
	0	0.0 lbs	Slurry Density	15.8 ppg
	0	0.0 gal	Slurry Yield	1.15 cu ft/sk
	0	0.0 lbs	Mix Fluid	5.0 gal/sk
CaCl <sub>2</sub>	2.0% bwoc-db	540.4 lbs		
Defoamer (if req'd)	0.05 gal/bbl	2.9 gal		

No excess's for losses, dead volumes, etc

## 4-1/2 Production Casing - Stage 3

Porkchop Fed 27-2E

	Depth	Excess	<- Inner ->		<- Outer ->		cu ft/ft	bbl/ft	cu ft	bbl
			OD	ID	OD	ID				
Surface / TOC	0									
9-5/8" shoe	500		9.625	8.921	4.5	4.052	0.3236	0.0576	161.8	
OH Volume		75%	8.75	8.75	4.5	4.052	0.3071	0.0547	1,733.4	
DV Tool #2	3725									
Displacement					4.5	4.052	0.0896	0.0159		59.4
DV Tool #1	6100									
Shoe Track	7005	0%			4.5	4.052	0.0896	0.0159	0.0	
Float Shoe	7089									
TOTAL MAIN SLURRY VOLUME (CU FT)									1,895.2	
TOTAL DISPLACEMENT VOLUME (BBL)										59.4

**MAIN CEMENT SLURRY**

Class 'H' Cement	47.0 lb/sk	1,115 sx	52,397 lbs	Slurry Volume	1,895 cu ft
San Juan Poz	24.0 lb/sk		26,756 lbs		337.6 bbl
Bentonite	3.00% bwoc		3,144 lbs	Slurry Density	12.8 ppg
Halad-344	0.40% bwoc		419 lbs	Slurry Yield	1.70 cu ft/sk
CFR-3	0.20% bwoc		153 lbs	Mix Fluid	8.26 gal/sk
HR-5	0.10% bwoc		77 lbs		
Silicalite-blended	20.0 lb/sk		22,297 lbs		
Flocele	0.3 lb/sk		84 lbs		
Defoamer (if req'd)	0.05 gal/bbl		17 gal		

No excess's for losses, dead volumes, etc



# 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>	Loresco 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 arroyo's and streams. EXCEPTION: If trenching 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 <i>always</i> 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.