

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" For such proposals

SUBMIT IN TRIPLICATE

1 Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2 Name of Operator

CONOCO INC.

3 Address and Telephone

10 DESTA DRIVE, SUITE 649W, MIDLAND, TEXAS 79705-4500

4 Location of Well (Footage, Sec., T R M. or Survey Description)

1500' FNL & 2400' FWL  
Sec. 36, T28N, R7W

5. Lease Designation and Serial No

SF 079294

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

San Juan 28-7

8 Well Name and No

226E

9 API Well No

30-039-26176

10 Field and Pool, or Exploratory Area

Mesaverde/Basin Dakota

11. County or Parish, State

Rio Arriba, New Mexico

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

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other change in casing

- ☒ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well

Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.

Conoco Inc. proposes to make changes in casing as reflected in the attached revised well plan outline.

14 I hereby certify that the foregoing is true and correct

Signed Jo Ann Johnson

Title Jo Ann Johnson - Sr. Property Analyst

Date September 8, 1999

15. (This space for Federal or State office use)

Approved by WAYNE TOWNSEND  
Conditions of approval

Title A. T. C.

Date SEP 10 1999



# **PRIMARY CEMENTING PROPOSAL**

## **SURFACE & 3 STAGE LONGSTRING**

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# **Conoco**

## **San Juan 28-7 Unit #226E**

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### **Well Location**

Field : San Juan Unit  
County : Rio Arriba  
State : Nm  
Country : USA

Prepared for : Brett Thompson  
Ricky Joyce  
Date Prepared : 8/20/99

Service Point : FARMINGTON, NM  
Business Phone : 505-325-5096  
FAX No. : 505-327-0317

Prepared by : Duane Gonzalez  
Phone : (281) 293-4538  
FAX : (281) 293-4424  
E-Mail address : dgonzalez@houston.dowell.slb.com

#### **Disclaimer Notice:**

This information is presented in good faith, but no warranty is given and Dowell assumes no liability for advice or recommendations made concerning results to be obtained from the use of any product or service. Prices quoted are estimates only, and are good for 30 days from the date of issue. Actual charges may vary depending upon time, equipment, and material, ultimately required to perform these services. Freedom from infringement of patents of Dowell or others is not to be inferred.

**Well Data: 9 5/8 in. Surface**

< Surface

Depth	500 ft.
Casing Size	9 5/8 in., 32.3 lbs./ft.
Open Hole Diameter	12 1/4 in.
BHST	100 °F
BHCT	80.0 °F
Total Excess	100 %
Tail Excess	100 %

**Mud Wt./Type: 8.4 ppg Fresh Wtr. Based**

**Calculations:**

**Volume Factors:**

Casing x Open Hole	0.3132 cu.ft./ft
Casing (Internal)	0.4411 cu.ft./ft

**Top of Cement**

**Surface**

**Cement System:**

Open Hole Fill	$(500 \times 0.3132 \times 2.) / 1.19 = 262 \text{ sks.}$
Casing Shoe Cement	$(40 \times 0.4411) / 1.19 = 15 \text{ sks.}$
	Total Tail Cement = 277 sks.

< T.D. - 500 ft.

## Cementing Systems

Spacer System: 20 bbls .

Fresh Water

Cement System: 275 sks.

Class B + 2% S1 + 0.25 pps D29

Mix Weight	:	15.6	PPG
Yield	:	1.19	cu.ft./sk.
Mix Water	:	5.19	gal./sk.
Fluid Loss	:	800	cc/30 minutes
Thickening Time	:	0.125	hours:minutes
Comp. Strength	:	1,000	psi in 12 hrs.

**Notice:**

Performance parameters for cement systems recommended are typically taken from existing laboratory data. In some cases, data exist which duplicate the recommended systems and job environment, but when those data do not exist, extrapolations are made from data which most closely match the anticipated conditions. Sufficient lead-time should always be allowed, so that pilot samples/field blends can be run to verify system performance parameters, before actually pumping the job.

**Well Data: 4 1/2 in. Production - Stage 1**

< Surface

Depth	7,834 ft.
Casing Size	4 1/2 in., 11.6 lbs./ft.
Open Hole Diameter	8 3/4 in.
Previous Csg. Depth	500 ft.
Previous Csg. Size	9 5/8 in., 32.3 lbs./ft.
BHST	175 °F
BHCT	130.9 °F
Total Excess	35 %
Lead Excess (calculated O.H.)	35.0 %
Tail Excess	35 %
Stage Collar Depth	5,850 ft.

< Previous Csg.  
500 ft.

**Mud Wt./Type: 8.6 ppg Fresh Wtr. Based**

**Calculations:**

**Volume Factors:**

Casing x Open Hole	0.3071 cu.ft./ft
Casing x Previous Casing	0.3307 cu.ft./ft
Casing (Internal)	0.0874 cu.ft./ft

Top of Lead	5,850 ft.
Top of Tail	7,234 ft.

**Lead System:**

Total Lead Fill  $(1,384 \times 0.3071 \times 1.35) / 2.86 = 201 \text{ sks.}$

< Top of Cmt./DV Tool  
5,850 ft.

**Tail System:**

Top of Lead	Open Hole Fill	$(600 \times 0.3071 \times 1.35) / 1.45 = 171 \text{ sks.}$
7,234 ft.	Casing Shoe Cement	$(80 \times 0.0874) / 1.45 = 5 \text{ sks.}$
	Total Tail Cement	$= 176 \text{ sks.}$

< T.D. - 7,834 ft.

## Cementing Systems

Spacer System: 20 bbls .

CW-100 Chemical Wash

Lead System: 200 sks.

Class B + 3% D79 + 0.1% D46 + 0.25 pps D29

Mix Weight	:	11.4 PPG
Yield	:	2.86 cu.ft./sk.
Mix Water	:	17.64 gal./sk.
Fluid Loss	:	700 cc/30 minutes
Thickening Time	:	5:00 hours:minutes
Comp. Strength	:	600 psi in 24 hrs.

Tail System: 175 sks.

50:50 Poz:Class B + 2% D20 + 0.5% D60 + 0.2% D65 + 0.1% D46  
+ 0.25 pps D29

Mix Weight	:	12.8 PPG
Yield	:	1.45 cu.ft./sk.
Mix Water	:	7.15 gal./sk.
Fluid Loss	:	350 cc/30 minutes
Thickening Time	:	4:30 hours:minutes
Comp. Strength	:	500 psi in 24 hrs.

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Well Data: 4 1/2 in. Production - Stage 2

< Surface	Depth	7,834 ft.
	Casing Size	4 1/2 in., 11.6 lbs./ft.
	Open Hole Diameter	8 3/4 in.
	Previous Csg. Depth	500 ft.
	Previous Csg. Size	9 5/8 in., 32.3 lbs./ft.
	BHST	175 °F
	BHCT	118.0 °F
	Total Excess	35 %
	Tail Excess	35 %
	Stage Collar Depth	5,850 ft.

< Previous Csg.  
500 ft.

Mud Wt./Type: 8.6 ppg Fresh Wtr. Based

Calculations:

Volume Factors:

< Top of Cmt. 2,800 ft.	Casing x Open Hole	0.3071 cu.ft./ft
	Casing x Previous Casing	0.3307 cu.ft./ft
	Casing (Internal)	0.0874 cu.ft./ft

Top of Cement 2,800 ft.

Cement System:

Open Hole Fill  $(3,050 \times 0.3071 \times 1.35) / 1.45 = 872 \text{ sks.}$   
Casing Shoe Cement  $(40 \times 0.0874) / 1.45 = 2 \text{ sks.}$   
Total Tail Cement = 874 sks.

< Stage Collar (DV)  
5,850 ft.

< T.D. - 7,834 ft.



## Cementing Systems

Spacer System: 20 bbls .

CW-100 Chemical Wash

Cement System: 875 sks.

50:50 Poz:Class B + 2% D20 + 0.5% D60 + 0.2% D65 + 0.1% D46  
+ 0.25 pps D29

Mix Weight	:	12.8 PPG
Yield	:	1.45 cu.ft./sk.
Mix Water	:	7.15 gal./sk.
Fluid Loss	:	350 cc/30 minutes
Thickening Time	:	4:30 hours:minutes
Comp. Strength	:	500 psi in 24 hrs.

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**Well Data: 4 1/2 in. Production - Stage 3**



Depth	7,834 ft.
Casing Size	4 1/2 in., 11.6 lbs./ft.
Open Hole Diameter	8 3/4 in.
Previous Csg. Depth	500 ft.
Previous Csg. Size	9 5/8 in., 32.3 lbs./ft.
BHST	128 °F
BHCT	95.8 °F
Total Excess	35 %
Lead Excess (calculated O.H.)	35.0 %
Tail Excess	35 %
Stage Collar Depth	2,800 ft.

**Mud Wt./Type: 8.6 ppg Fresh Wtr. Based**

**Calculations:**

**Volume Factors:**

Casing x Open Hole	0.3071 cu.ft./ft
Casing x Previous Casing	0.3307 cu.ft./ft
Casing (Internal)	0.0874 cu.ft./ft

<b>Top of Lead</b>	<b>Surface</b>
<b>Top of Tail</b>	<b>1,800 ft.</b>

**Lead System:**

< Stage Collar (DV-2)	Open Hole Fill	$(1,300 \times 0.3071 \times 1.35) / 2.86 = 188 \text{ sks.}$
2,800 ft.	Previous Casing Fill	$(500 \times 0.3307) / 2.86 = 58 \text{ sks.}$
		<b>Total Lead Cement = 246 sks.</b>

**Tail System:**

< Stage Collar (DV-1)	Open Hole Fill	$(1,000 \times 0.3071 \times 1.35) / 1.45 = 286 \text{ sks.}$
5,850 ft.	Casing Shoe Cement	$(40 \times 0.0874) / 1.45 = 2 \text{ sks.}$
		<b>Total Tail Cement = 288 sks.</b>

< T.D. - 7,834 ft.

## Cementing Systems

Spacer System: 20 bbls .

CW-100 Chemical Wash

Lead System: 245 sks.

Class B + 3% D79 + 0.1% D46 + 0.25 pps D29

Mix Weight	:	11.4 PPG
Yield	:	2.86 cu.ft./sk.
Mix Water	:	17.64 gal./sk.
Fluid Loss	:	700 cc/30 minutes
Thickening Time	:	5:00 hours:minutes
Comp. Strength	:	600 psi in 24 hrs.

Tail System: 290 sks.

50:50 Poz:Class B + 2% D20 + 0.5% D60 + 0.2% D65 + 0.1% D46  
+ 0.25 pps D29

Mix Weight	:	12.8 PPG
Yield	:	1.45 cu.ft./sk.
Mix Water	:	7.15 gal./sk.
Fluid Loss	:	350 cc/30 minutes
Thickening Time	:	4:30 hours:minutes
Comp. Strength	:	500 psi in 24 hrs.

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