

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)

1350' FSL & 2330' FEL
Sec. 34, T28N, R7W

5. Lease Designation and Serial No.

SF 078496-A

6. If Indian, Allottee or Tribe Name

7. If unit or CA, Agreement Designation

San Juan 28-7

8. Well Name and No.

225E

9. API Well No.

30-039-26173

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
Conditions of approval if any:

WAYNE TOWNSEND

Title A.T.L.

Date

SEP 10 1999

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.

C

NNOCOD

EST. KB = 6219

LOCATION: SEC 34, T-28N, R-7W, RIO ARRIBA CO., NM

LOCATION: SEC 34, T-28N, R-7W, RIO ARriba CO., NM										
TVD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE AND DEPTH	FRAC GRAD. psi/ft	FORMATION PRESSURE PSI	MUD WT & TYPE	DAY
					12-1/4"			NORMAL	SPLD MUD 8.4 - 8.8#	
					12-1/4"	9-5/8" 32.3# H-40 STC @ 500'				1
1					8-3/4"				GEL/WATER: 8.4 - 8.8#	
									MAINTAIN MW AS LOW AS POSSIBLE	
2		OJAM @ 1964'	POSSIBLE WATERFLOW						GEL/POLYMER: 8.6 - 9.0#	
		KRLD @ 2100'							CONTROL FLUID LOSS PRIOR TO OJAM (10-12 CC)	
		FRLD @ 2402'	POSSIBLE GAS FLOW POSSIBLE LOST RETURNS			POSSIBLE DV TOOL 2400'		432 PSI		
		PCCF @ 2814'	POSSIBLE DIFFERENTIAL STICKING					360 PSI		
3		LEWS @ 2966'								
		CHRA @ 3771'						400 PSI		
4										
		CLFH/MV @ 4454'	PROBABLE LOST RETURNS IF FLUID IN HOLE				0.5	457 PSI		
		MEHF @ 4597'								
5		PTLK @ 5055'	PROBABLE LOST RETURNS							
		MNCS @ 5457'	PROBABLE LOST RETURNS	CORE BARREL		POSSIBLE DV TOOL 5450'				
				FORMATION COMPENSATED						
6		GLLP @ 6225'	PROBABLE LOST RETURNS	DENSITY OR LITHODENSITY W/ GAMMA RAY & CALIPER						
				COMPENSATED NEUTRON LOG						
		GRIN @ 6971'	POSSIBLE WATERFLOW							
7		GRRS @ 7029'	POSSIBLE OVERPRESSURE IN DEEP DAKOTA	INDUCTION RESISTIVITY W/ GAMMA RAY & SP	8-3/4"	4-1/2" 10.5# J-55 STC @ 7330' CEMENT TO SURFACE (POSSIBLE 2 OR 3 STAGE)	0.5	713 PSI		
		PAGU @ 7197'						BHT = 175 deg F		19
		T.D. @ 7430'								
8										
		NOTE: PERMIT TO 7730'								

PREPARED:

APPROVALS:

RES. ENGINEER

PROD. ENGINEER

T.H.G.
GEOLOGIST

DRILLING MGR.

2:24 PM

PRIMARY CEMENTING PROPOSAL

SURFACE & 3 STAGE LONGSTRING

Conoco

San Juan 28-7 Unit #225E

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:

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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	7,430 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	129.1 °F
Total Excess	35 %
Lead Excess (calculated O.H.)	35.0 %
Tail Excess	35 %
Stage Collar Depth	5,450 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	5,450 ft.
Top of Tail	6,830 ft.

Lead System:

Total Lead Fill $(1,380 \times 0.3071 \times 1.35) / 2.86 = 200$ sks.

< Top of Cmt./DV Tool
5,450 ft.

Tail System:

Top of Lead
6,830 ft.

Open Hole Fill	$(600 \times 0.3071 \times 1.35) / 1.45 = 171$ sks.
Casing Shoe Cement	$(80 \times 0.0874) / 1.45 = 5$ sks.
Total Tail Cement	= 176 sks.

< T.D. - 7,430 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	7,430 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	116.3 °F
Total Excess	35 %
Tail Excess	35 %
Stage Collar Depth	5,450 ft.

< Previous Csg.
500 ft.**Mud Wt./Type: 8.6 ppg Fresh Wtr. Based****Calculations:****Volume Factors:**< Top of Cmt.
2,400 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 2,400 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)
5,450 ft.

< T.D. - 7,430 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.

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 3



< Surface	Depth	7,444 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	93.7 °F
	Total Excess	35 %
	Lead Excess (calculated O.H.)	35.0 %
	Tail Excess	35 %
	Stage Collar Depth	2,400 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
< Top of Tail 1,400 ft.	Casing x Previous Casing	0.3307 cu.ft./ft
	Casing (Internal)	0.0874 cu.ft./ft

Top of Lead	Surface
Top of Tail	1,400 ft.

Lead System:

< Stage Collar (DV-2) 2,400 ft.	Open Hole Fill	$(900 \times 0.3071 \times 1.35) / 2.86 = 130 \text{ sks.}$
	Previous Casing Fill	$(500 \times 0.3307) / 2.86 = 58 \text{ sks.}$
	Total Lead Cement	188 sks.

< Stage Collar (DV-1)
5,450 ft.

Tail System:

Open Hole Fill	$(1,000 \times 0.3071 \times 1.35) / 1.45 = 286 \text{ sks.}$
Casing Shoe Cement	$(40 \times 0.0874) / 1.45 = 2 \text{ sks.}$
Total Tail Cement	288 sks.

< T.D. - 7,444 ft.

Cementing Systems

Spacer System: 20 bbls .

CW-100 Chemical Wash

Lead System: 190 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.

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.