

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

RECEIVED
SEP 13 1993

SUBMIT IN TRIPLICATE

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	5. Lease Designation and Serial No. SF 078498
2. Name of Operator CONOCO INC.	6. If Indian, Allottee or Tribe Name
3. Address and Telephone 10 DESTA DRIVE, SUITE 649W, MIDLAND, TEXAS 79705-4500	7. If unit or CA, Agreement Designation San Juan 28-7
4. Location of Well (Footage, Sec., T. R. M. or Survey Description) 1285' FNL & 1845' FWL Sec. 27, T28N, R7W	8. Well Name and No. 135E
	9. API Well No.
	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	TYPE OF ACTION
☒ Notice of Intent	☐ Abandonment
☐ Subsequent Report	☐ Recompletion
☐ Final Abandonment Notice	☐ Plugging Back
	☐ Casing Repair
	☐ Altering Casing
	☒ Other <u>change in casing</u>
	☒ 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.

RECEIVED
IN SEP 20 1993
OIL CORP. DIST.
DIST. 3

14. I hereby certify that the foregoing is true and correct. Signed <u>Jo Ann Johnson</u> Title <u>Jo Ann Johnson - Sr. Property Analyst</u> Date <u>September 8, 1999</u>
15. (This space for Federal or State office use) Approved by <u>WAYNE TOWNSEND</u> Title <u>A. T. C.</u> Date <u>SEP 16 1999</u>

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.

443000

WELL NAME: **SJ 28-7 UNIT No. 135E**
 LOCATION: **SEC 27, T-28N, R-7W, RIO ARRIBA CO., NM**

EST. GL = 6581
 EST. KB = 6596

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	SPUD 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#	
2									MAINTAIN MW AS LOW AS POSSIBLE	
		OJAM @ 2400' KRLD @ 2515'	POSSIBLE WATERFLOW							
		FRLD @ 2817'	POSSIBLE GAS FLOW					432 PSI		
3			POSSIBLE LOST RETURNS			POSSIBLE DV TOOL 380'				
		PCCF @ 3231'	POSSIBLE DIFFERENTIAL STICKING					360 PSI		
		LEWS @ 3392'								
4										
		CHRA @ 4188'						400 PSI		
5							0.5	457 PSI		
		CUFHMV @ 4871' MENF @ 5008'	POSSIBLE LOST RETURNS IF FLUID IN HOLE							
		PTLK @ 5454'	PROBABLE LOST RETURNS							
6						POSSIBLE DV TOOL 589'				
		MNCS @ 5895'	PROBABLE LOST RETURNS							
				FORMATION COMPENSATED DENSITY OR LITHODENSITY W/ GAMMA RAY & CALIPER						
		GLLP @ 6682'	PROBABLE LOST RETURNS							
7				COMPENSATED NEUTRON LOG						
		GRHN @ 7393' GRRS @ 7451' PAGU @ 7608'	POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE IN DEEP DAKOTA	INDUCTION RESISTIVITY W/ GAMMA RAY & SP	8-3/4"	4-1/2" 10.5# J-55 STC @ 7741' CEMENT TO SURFACE (POSSIBLE 2 OR 3 STAGE)	0.5	713 PSI	BHT = 175 deg F	16
8										
		T.D. @ 7841'								
		NOTE: PERMIT TO 8141'								

DATE 08/17/99
 PREPARED: Ricky Joyce/Brett Thompson
 DRILLING ENGINEER

APPROVALS: M. Shamon
 RES. ENGINEER
[Signature]
 PROD. ENGINEER

HTC
 GEOLOGIST
[Signature]
 DRILLING MGR.

2:26 PM

PRIMARY CEMENTING PROPOSAL**SURFACE & 3 STAGE LONGSTRING**

Conoco***San Juan 28-7 Unit #135E***

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	$= 277 \text{ sks.}$

< 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	7,841 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	131.0 °F
	Total Excess	35 %
	Lead Excess (calculated O.H.)	35.0 %
	Tail Excess	35 %
	Stage Collar Depth	5,895 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	5,895 ft.
Top of Tail	7,241 ft.

Lead System:

Total Lead Fill $(1,346 \times 0.3071 \times 1.35) / 2.86 = 195 \text{ sks.}$

< Top of Cmt./DV Tool
5,895 ft.

Tail System:

Top of Lead	Open Hole Fill	$(600 \times 0.3071 \times 1.35) / 1.45 = 171 \text{ sks.}$
7,241 ft.	Casing Shoe Cement	$(80 \times 0.0874) / 1.45 = 5 \text{ sks.}$
		Total Tail Cement = 176 sks.

< T.D. - 7,841 ft.

Cementing Systems

Spacer System: 20 bbls .

CW-100 Chemical Wash

Lead System: 195 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.

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.

Cementing Systems

Spacer System: 20 bbls .

CW-100 Chemical Wash

Cement System: 830 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	:	600 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 Casing Size Open Hole Diameter Previous Csg. Depth Previous Csg. Size BHST BHCT Total Excess Lead Excess (calculated O.H.) Tail Excess Stage Collar Depth	7,841 ft. 4 1/2 in., 11.6 lbs./ft. 8 3/4 in. 500 ft. 9 5/8 in., 32.3 lbs./ft. 128 °F 96.5 °F 35 % 35.0 % 35 % 3,000 ft.
-----------	---	---

< Previous Csg.
500 ft.

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

Calculations:

Volume Factors:

< Top of Tail 2,000 ft.	Casing x Open Hole Casing x Previous Casing Casing (Internal)	0.3071 cu.ft./ft 0.3307 cu.ft./ft 0.0874 cu.ft./ft
----------------------------	---	--

Top of Lead	Surface
Top of Tail	2,000 ft.

Lead System:

< Stage Collar (DV-2) 3,000 ft.	Open Hole Fill Previous Casing Fill	$(1,500 \times 0.3071 \times 1.35) / 2.86 = 217 \text{ sks.}$ $(500 \times 0.3307) / 2.86 = 58 \text{ sks.}$ Total Lead Cement = 275 sks.
------------------------------------	--	--

< Stage Collar (DV-1)
5,895 ft.

Tail System:

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

< T.D. - 7,841 ft.

Cementing Systems

Spacer System: 20 bbls .

CW-100 Chemical Wash

Lead System: 275 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.