

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	5. Lease Designation and Serial No. SF 078497-A
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) 1480' FSL & 790' FWL SECTION 20, T28N, R7W	8. Well Name and No. 219M
	9. API Well No. 30-039-26172
	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 completions 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 <u>Jo Ann Johnson</u> Title <u>Jo Ann Johnson - Sr. Property Analyst</u> Date <u>December 3, 1999</u>	15. (This space for Federal or State office use) Approved by _____ Conditions of approval if any: _____ Title _____ Date <u>DEC 6 1999</u>
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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.

11/11/99

WELL NAME:

SJ 28-7 UNIT No. 219M

EST. GL =

8228

LOCATION:

SEC 20, T-28N, R-7W, RIO ARRIBA CO., NM

EST. KB =

8241

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					7-7/8"				GELWATER: 8.4 - 8.8#	
									MAINTAIN MW AS LOW AS POSSIBLE	
2		OJAM @ 1899'	POSSIBLE WATERFLOW							
		KRLD @ 2044'								
		FRLD @ 2385'	POSSIBLE GAS FLOW					432 PSI	GEL/POLYMER: 8.6 - 9.0#	
			POSSIBLE LOST RETURNS						CONTROL FLUID LOSS PRIOR TO OJAM (10-12 CC)	
		PCCF @ 2828'	POSSIBLE DIFFERENTIAL STICKING					360 PSI		
3		LEWS @ 2983'								
		CHRA @ 3756'						400 PSI		
4										
		CLFH/MV @ 4451'	PROBABLE LOST RETURNS IF FLUID IN HOLE				0.5	457 PSI		
		MENF @ 4586'								
5		PTLK @ 5033'	PROBABLE LOST RETURNS							
		MNCS @ 5472'	PROBABLE LOST RETURNS							
6				FORMATION COMPENSATED						
		GLLP @ 6251'	PROBABLE LOST RETURNS	DENSITY OR LITHODENSITY W/ GAMMA RAY & CALIPER						
				COMPENSATED NEUTRON LOG						
		GRHN @ 6993'	POSSIBLE WATERFLOW							
7		GRRS @ 7051'	POSSIBLE OVERPRESSURE IN DEEP DAKOTA	INDUCTION RESISTIVITY W/ GAMMA RAY & SP		4-1/2" 10.5# J-55 STC 0'-800' 4-1/2" 9.5# J-55 STC 800'-7444' CEMENT TO SURFACE	0.5	713 PSI		
		PAGU @ 7224'			7-7/8"			BHT = 175 deg F		16
		T.D. @ 7444'								
8										
		NOTE: PERMIT TO 7744'								

DATE 12/02/99

8:45 AM

PREPARED:

Ricky Joyce & Brett Thompson

DRILLING ENGINEER

PRIMARY CEMENTING PROPOSAL

SURFACE & LONGSTRING

Conoco

San Juan 28-7 Unit #219M

Well Location

Field : San Juan 28-7 Unit
County : Rio Arriba
State : Nm
Country : USA

Prepared for : Brett Thompson
Ricky Joyce

Date Prepared : 12/1/99

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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Conoco

San Juan 28-7 Unit #219M

Rio Arriba County, Nm

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Well Data: 9 5/8 in. Surface

< Surface

Depth	500 ft.
Casing Size	9 5/8 in., 36 lbs./ft.
Open Hole Diameter	12 1/4 in.
BHST	90 °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)	0.4338 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	$(40 \times 0.4338) / 1.19 = 15 \text{ sks.}$
	Total Tail Cement = 277 sks.

< T.D. - 500 ft.



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San Juan 28-7 Unit #219M

Rio Arriba County, Nm

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Cementing Systems

Spacer System: 20 bbls .

Fresh Water

Cement System: 275 sks.

Class G + 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	:	3:00 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.



Conoco

San Juan 28-7 Unit #219M

Rio Arriba County, Nm

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Cementing Services Pricing

Units	UOM	Description	Unit Price	Disc. %	Extended Price
MATERIALS AND EQUIPMENT:					
1	EA.	PUMP CHARGE 500 FT 1ST 6HRS	1,019.00	45	560.45
1	EA.	CEMENTING HEAD	83.00	45	45.65
6	HRS.	CEMENT BULK UNITS TIME ON LOCATION	76.00	45	250.80
1	EA.	PRISM RECORDER	220.00	45	121.00
275	SKS.	CLASS B CEMENT	11.83	45	1,789.29
500	LBS.	S1 CALCIUM CHLORIDE	0.51	45	140.25
69	LBS.	D29 CELLOFLAKE	2.02	45	76.66
60	MILES	MILEAGE ON 1 UNITS	3.47	45	114.51
792	T.M.	HAULING 13.2 TONS	1.33	45	579.35
285	CU.FT.	SERVICE CHG.	1.85	45	289.99
1	EA.	TOP WOODEN PLUG	162.00	45	89.10
					=====
SUBTOTAL (PRICEBOOK)				\$	7,376.44
EFFECTIVE DISCOUNT			45.00	%	3,319.40
					=====
<u>DISCOUNTED TOTAL PRICE</u>				\$	4,057.04

Well Data: 4 1/2 in. Longstring

< Surface

Depth	7,444 ft.
Casing Size	4 1/2 in., 9.5 lbs./ft.
Open Hole Diameter	7 7/8 in.
Previous Csg. Depth	500 ft.
Previous Csg. Size	9 5/8 in., 36 lbs./ft.
BHST	175 °F
BHCT	129.1 °F
Total Excess	35 %
Tail Excess	35 %

< Previous Csg.
500 ft.

Mud Wt./Type: 9 ppg Fresh Wtr. Based

Calculations:

Volume Factors:

Casing x Open Hole	0.2278 cu.ft./ft
Casing x Previous Casing	0.3234 cu.ft./ft
Casing (Internal)	0.0915 cu.ft./ft

Top of Cement

Surface

Cement System:

Open Hole Fill	$(6,944 \times 0.2278 \times 1.35) / 2.1 = 1,019 \text{ sks.}$
Previous Casing Fill	$(500 \times 0.3234) / 2.1 = 77 \text{ sks.}$
Casing Shoe Cement	$(80 \times 0.0915) / 2.1 = 3 \text{ sks.}$
Total Tail Cement = 1,100 sks.	

< T.D. - 7,444 ft.

Cementing Systems

Spacer System: 30 bbls .

CW-100 Chemical Wash

Cement System: 1,100 sks. CemCRETE Blend

30.7/69.3 (D961/D124) + 0.11%D167 + 0.45%D65 + 0.03gpsbD47 + 0.15%D800

Mix Weight	:	10.01	PPG
Yield	:	2.1	cu.ft./sk.
Mix Water	:	6.71	gal./sk.
Fluid Loss	:	121	cc/30 minutes
Thickening Time	:	5:31	hours:minutes
Comp. Strength	:	1,313	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.