

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  
CONOCO INC.

3. Address and Telephone No.

10 DESTA DR. STE. 430E, MIDLAND, TX. 79705-4500

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

1675' FSL & 1845' FEL  
Sec. 16, T26N, R4W

5. Lease Designation and Serial No.

Cont 104

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

Jicarilla E

8. Well Name and No.

9M

9. API Well No.

30-039-28843

10. Field and Pool, or Exploratory Area

Blanco MV/Basin Dakota

11. County or Parish, State

Rio Arriba, NM

**CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

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

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☒ Altering Casing  
☐ Other \_\_\_\_\_
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracrunng  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Repon results of multiple completion 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.)\*

This is notice that the casing plan has been changed according to the attached revised Well Plan Outline. This reflects the changes requested in your letter of January 28, 1999 returning the Sundry dated 12/15/98 unapproved.

14. I hereby certify that the foregoing is true and correct

Signed

*William Johnson*

Title Sr. Property Analyst

Date

2/5/99

(This space for Federal or State office use)

Approved by

*William Johnson*

Title

Lands and Mineral Resources

Date

1 12 1999

BLM(6), SHEAR, PONCA, COST ASST, FILE ROOM

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.

\*See Instruction on Reverse Side

## REVISED WELL PLAN OUTLINE

(7" Casing to TD)

EST. GL = 6764

EST. KB = 6777

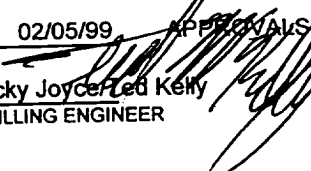
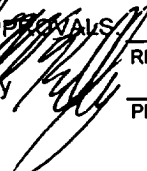
WELL NAM

Jicarilla E No. 9M

LOCATION: SEC 16, T-26N, R-4W, RIO ARRIBA CO., NM

TVD IN	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD. psi/ft	FORMATION PRESSURE PSI	MUD WT TYPE	DAYS
1000 MD									
0				12-1/4"	8-5/8" 36# K-55 ST&C @ 300'		NORMAL	8.4 - 8.8# SPUD MUD	1
				8-3/4"	CIRC CMT			8.4 - 8.8# GEL/POLYMER MAINTAIN MW AS LOW AS POSSIBLE	
1									
2									
3	OJAM @ 2888'	POSSIBLE LOST CIRC.							
	FRLD @ 3121'								
	PCCF @ 3422'	POSSIBLE SEVERE LOSSES							
	LEWS @ 3583'								
4									
	CHRA @ 4360'								
5	CLFH/MV @ 5078'	PROBABLE LOST RETURNS IF FLUID IN HOLE			DV TOOL SET @ 4850' (200'-400' ABOVE CLFH) CMT TO SURFACE	0.5	583 PSI		
	MENF @ 5205'								
	PTLK @ 5570'								
6									
	MNCS @ 6039'								
	U. GLLP @ 6714'								
	M. GLLP @ 6938'								
7	TOCT @ 7151'	PROBABLE LOST RETURNS IF FLUID IN HOLE			7" 26# J-55 STC @ 0-200' 7" 23# J-55				
	GRHN @ 7542'				STC @ 200' to 6100'	0.5	860 PSI	ADD 2% KCl @ GRRS DKOT	
	GRRS DKOT @ 7601'		CASED HOLE LOGS	8-3/4"	7" 26# J-55		BHT = 175 deg F, BHP=2500	8.4 - 8.8# GEL/POLYMER	16
	PAGU @ 7755'		PULSED NEUTRON		STC @ 6100' to 7859'				
	T.D. @ 7859'				CMT TO DV TOOL AT TOP OF CLFH				
8									
	NOTE: Permit to 8159'								

10:55 AM

DATE 02/05/99 APPROVALS  
 PREPARED:  RES. ENGINEER  
 Ricky Joyce Kelly  
 DRILLING ENGINEER  
 PROD. ENGINEER

GEOLOGIST  
  
 DRILLING MGR.

Operator: CONOCO INC.	Well Name: Jicarilla E #9M
Project ID:	Location: Rio Arriba CO, NM

#### Design Parameters:

Mud weight ( 8.80 ppg) : 0.457 psi/ft  
 Shut in surface pressure : 0 psi  
 Internal gradient (burst) : 0.457 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using buoyed weight  
 Service rating is "Sweet"

#### Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	200	7"	26.00	J-55	ST&C	200	6.151
2	5,900	7"	23.00	J-55	ST&C	6,100	6.241
3	1,759	7"	26.00	J-55	ST&C	7,859	6.151

	Load (psi)	Collapse Strgth (psi)	S.F.	Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Load (kips)	Tension Strgth (kips)	S.F.
1	91	3596	9.999	91	4980	54.73	161.52	334	2.07 J
2	2789	3160	1.133	2789	4360	1.56	157.02	284	1.81 J
3	3593	4320	1.202	3593	4980	1.39	39.58	334	8.44 J

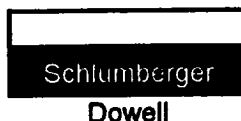
Prepared by : T. Kelly, ,  
 Date : 02-05-1999  
 Remarks :

Design is for a Production string.

Minimum segment length for the 7,859 foot well is 1,500 feet.

The mud gradient and bottom hole pressures (for burst) are 0.457 psi/ft and 3,593 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1993 pricing model. (Version 1.1G)



## 9.625" Surface Pipe

Big A Rig 42  
Conoco Inc.  
Phone 320-8107

JICARILLA E 9M

Set 9.625" Casing at +/- 300' lifting Cement up to SURFACE in a 12.25" Hole.

CLASS G + 2% CALCIUM CHLORIDE + 0.25 PPS CELLOPHANE

$(300) \times (2.00\%) \times (0.3132 \text{ ft/cu.ft.})$  Divided by 1.19 yield = 158 sacks Cement

- 1 Pump 20 bbl Water
- 2 Mix and pump 158 sx Cement Slurry
- 3 Drop Wooden plug and displace with fresh water

System #1:	Type		
Class	B	Conce	UOM
Add 1	S1	2.00	%BWOC
Add 2	D29	0.25	PPS
	System #1 Mix	15.60	PPG
	Yield :	1.19	Ft.3/Sk.
	Mix Water :	5.19	Gals./sk.
	Total Liquid :	5.19	Gals./sk.
	Fluid loss	800 ml	30 min.
	Thickening time		3 hr
	Comp. Strength		1000 psi in 12 hours
	Comp. Strength		2200 psi in 24 hours
	Free Water		<1.0 ml in 2 hours

Marty Hupp  
Sales Engineer  
505-325-5096  
Fax: 505-327-0317



## 7" production string - STAGE 1

Conoco Inc.  
Phone 320-8107

JICARILLA E No. 9M

STAGE No. 1

Set 7" Casing at +/- 7859' lifting Cement up to DV tool @ 4850' in a 8.75" Hole.

One Cement Slurry mixed at 13.5 ppg with 75% excess

$(7859-4850) \times (1.75\%) \times (0.1503 \text{ ft/cu.ft.})$  Divided by 1.37 yield = 578 sacks Cement

- 1 Pump 10 bbls w/10 gallons D122a and 5 gal J477
- 2 Pump 20 bbl CW100
- 3 Pump 10 bbl Water with 1 gallon L64
- 4 Mix and pump 578 sx Cement Slurry AT 13.5 PPG
- 5 Drop plugs and displace with fresh water and open DV Tool

	578 SACKS	7" LONGSTRING
System	50/50 + 2% Gel	Concentr. UOM
Class	B	
Poz	D48 POZ	50 %BWOC
Add 1	D20 Gel	2 %BWOC
Add 2	D29 Cellophane	0.25 PPS
Add 3	D46 Antifoam	0.1 %BWOC
Add 4	B14 Fluid Loss	0.4 %BWOC
Add 5	D65 Dispersant	0.2 %BWOC
Add 6	D800 RETARDER	0.1 %BWOC
	System #1 Mix Weight :	13.5 PPG
Yield :		1.37 Ft.3/Sk.
Mix Water :		6.05 Gals./sk.
Total Liquid :		6.05 Gals./sk.
Fluid Loss :		336 ml/30 min.
Free Water		0.5 ml/2 hour
Compressive Strength:		750 psi/12 hour
Compressive Strength:		1250 psi/24 hour
Thickening Time		3.5 hours @ 150 f

## STAGE # 2

Cement up to surface in a 8.75" Hole from DV tool set @ 4850'.

## 7" production string - STAGE 2

125% excess

$(4850) \times (2.25\%) \times (0.1503 \text{ ft/cu.ft.}) = 1640 \text{ cubic feet.}$

100 sacks of tail cement = 138 cubic feet

1640 cubic feet - 138 cubic feet = 1502 cubic feet of lead cement

1502 cubic feet divided by 2.86 yield for 525 sacks lead cement

- 1 Pump 10 bbl Water
- 2 Pump 20 bbl CW100 water spacer
- 3 Pump 10 bbl Water
- 4 Mix and pump 525 sx Lead Cement Slurry AT 11.4 PPG
- 5 Mix and pump 100 sx tail cement at 13.5 ppg
- 6 Drop plug and displace with fresh water and close DV Tool

525 SACKS LEAD CEMENT			
System #1:	LEAD SLURRY B + 3% D79 + 0.25#/SK + 0.1% D46		
Class	B	Concentr	UOM
	D79 E	3	%BWOC
Add 1	D29 Ce	0.25	PPS
Add 2	D46 An	0.1	%BWOC

System	11.4	PPG
Yield :	2.86	Ft.3/Sk.
Mix Wa	17.64	Gals./sk.
Total Li	17.64	Gals./sk.
Fluid L	700	ml/30 min.
Free W	1	ml/2 hour
Compr	250	psi/12 hour
Compr	600	psi/24 hour
Thicke	6	hours @120 f

100 SACKS TAIL SLURRY			
System Type			
Class	B	Concen	UOM
Poz	D35	50	%BWOC
Add 1	D20	2	%BWOC
Add 2	S1	2	%BWOC
Add 3	D42	5	PPS
Add 4	D29	0.25	PPS
Add 5	D46	0.1	%BWOC
Add 6	D65	0.15	%BWOC

System	13.5	PPG
Yield :	1.38	Ft.3/Sk.
Mix Wa	6.07	Gals./sk.
Total Li	6.07	Gals./sk.
Fluid L	550	ml/30 min.
Free W	1	ml/2 hour
Compr	800	psi/12 hour
Compr	1250	psi/24 hour
Thicke	3.5	hours @120 f

Marty Hupp  
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