

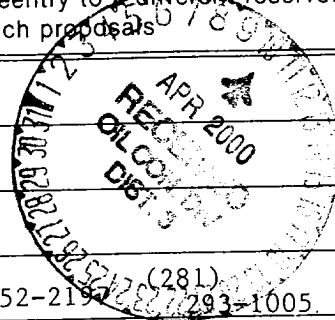
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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 No.  
P.O. Box 2197 DU 3066 Houston, TX 77252-2197

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
J SEC. 16, T26N, R4W  
1675' FSL & 1845' FEL

5. Lease Designation and Serial No.

CONT 104

6. If Indian, Allottee or Tribe Name

JICARILLA

7. If Unit or CA, Agreement Designation

JICARILLA E

8. Well Name and No.

JICARILLA E 9M

9. API Well No.

30-039-25843

10. Field and Pool, or Exploratory Area

BLANCO MV/BASIN DK

11. County or Parish, State

RIO ARRIBA, NM

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 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 REQUESTS TO REVISE OUR CASING AND CEMENTING PROGRAM FROM THE ORIGINAL  
APD AS PER THE ATTACHED:

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

Signed Rebecca Moore

Title Regulatory Analyst

(This space for Federal or State office use)

Approved by [Signature]  
Conditions of approval, if any:

Title Lands and Mineral Resources

Date

3/23/00  
4/6/00

RECEIVED  
BLM  
00 MAR 27 PM  
ALBUQUERQUE, N.M.

## REVISED WELL PLAN OUTLINE

EST. GL = 6764

EST. KB = 6777

WELL NAME **Jicarilla E No. 9M**LOCATION: **SEC 16, T-26N, R-4W, RIO ARRIBA CO., NM**

TVD IN 1000	MD	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
0					11" or 12 1/4"	8-5/8" 24# or 9 5/8" 36# J-55 or K-55, ST&C @ 350'		NORMAL	8.4 - 8.8# SPUD MUD	1
					7 7/8" or 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) (CONTINGENT ON LOST CIRCULATION) CMT TO SURFACE	0.5	583 PSI		
		MENF @ 5205'								
		PTLK @ 5570'								
6		MNCS @ 6039'				DV TOOL SET @ 5975' (50'-100' ABOVE MNCS) CMT TO DV TOOL @ 4850' OR TO SURFACE				
		U. GLLP @ 6714'								
		M. GLLP @ 6938'								
7		TOCT @ 7151'	PROBABLE LOST RETURNS IF FLUID IN HOLE							
		GRHN @ 7542'								
		GRRS DKOT @ 7601'		CASED HOLE LOGS PULSED NEUTRON	7-7/8" or 8 3/4"	4-1/2" 10.5# K-55 STC @ 7859'	0.5	860 PSI BHT = 175 deg F, BHP=2500 P	8.4 - 8.8# GEL/POLYMER	16
		PAGU @ 7755'				CMT TO DV TOOL AT TOP OF CLFH				
		T.D. @ 7859'								
8										
		NOTE: Permit to 8159'								

1:05 PM

DATE 03/23/00

PREPARED:

Ricky Joyce  
DRILLING ENGINEER



## PRIMARY CEMENTING PROPOSAL

### SURFACE & LONGSTRING

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**Conoco**

**Jicarilla E #9M**

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#### Well Location

County : Rio Arriba  
State : New Mexico  
Country : USA

Prepared for : Ricky Joyce

Service Point : FARMINGTON, NM

Business Phone : 505-325-5096

Date Prepared : 21-Mar-00


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	350 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: 8.8 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	$(350 \times 0.3132 \times 2.) / 1.19 = 184 \text{ sks.}$
Casing Shoe Cement	$(40 \times 0.4338) / 1.19 = 15 \text{ sks.}$
	Total Tail Cement = 198 sks.

< T.D. - 350 ft.

## Cementing Systems

**Spacer System: 20 bbls .**

**Fresh Water**

**Cement System: 200 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	:	N/C cc/30 minutes
Thickening Time	:	2:30 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	7,859 ft.
		Casing Size	4 1/2 in., 10.5 lbs./ft.
		Open Hole Diameter	8 3/4 in.
		Previous Csg. Depth	350 ft.
		Previous Csg. Size	9 5/8 in., 36 lbs./ft.
		BHST	175 °F
		BHCT	131.1 °F
		Total Excess	35 %
		Tail Excess	35 %
		Stage Collar Depth	5,975 ft.

< Previous Csg.  
350 ft.

## Mud Wt./Type: 8.8 ppg Fresh Wtr. Based

### Calculations:

#### Volume Factors:

Casing x Open Hole	0.3071 cu.ft./ft
Casing x Previous Casing	0.3234 cu.ft./ft
Casing (Internal)	0.0896 cu.ft./ft

**Top of Cement** **5,975 ft.**

#### Cement System:

Open Hole Fill	$(1,884 \times 0.3071 \times 1.35) / 1.6 = 487 \text{ sks.}$
Casing Shoe Cement	$(84 \times 0.0896) / 1.6 = 5 \text{ sks.}$
Total Tail Cement	$= 492 \text{ sks.}$

< Top of Cmt./DV Tool  
5,975 ft.

< T.D. - 7,859 ft.

## Cementing Systems

Spacer System: 20 bbls .

CW-100 Chemical Wash

Cement System: 490 sks.

50:50 Poz:Class B + 2.75% D20 + 0.2% D167 + 0.2% D46 + 0.25 pps D29

Mix Weight	:	12.4 PPG
Yield	:	1.6 cu.ft./sk.
Mix Water	:	8.29 gal./sk.
Fluid Loss	:	372 cc/30 minutes
Thickening Time	:	4:30 hours:minutes
Comp. Strength	:	1,200 psi in 48 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 2

< Surface

Depth	7,859 ft.
Casing Size	4 1/2 in., 10.5 lbs./ft.
Open Hole Diameter	8 3/4 in.
Previous Csg. Depth	350 ft.
Previous Csg. Size	9 5/8 in., 36 lbs./ft.
BHST	150 °F
BHCT	114.5 °F
Total Excess	35 %
Lead Excess (calculated O.H.)	35.0 %
Tail Excess	35 %
Stage Collar Depth	5,975 ft.

< Previous Csg.  
350 ft.

## Mud Wt./Type: 8.8 ppg Fresh Wtr. Based

### Calculations:

#### Volume Factors:

< Top of Tail  
4,928 ft.

Casing x Open Hole	0.3071 cu.ft./ft
Casing x Previous Casing	0.3234 cu.ft./ft
Casing (Internal)	0.0896 cu.ft./ft

**Top of Lead**

**Surface**

**Top of Tail**

**4,928 ft.**

#### Lead System:

Open Hole Fill	$(4,578 \times 0.3071 \times 1.35) / 2.88 = 660 \text{ sks.}$
Previous Casing Fill	$(350 \times 0.3234) / 2.88 = 40 \text{ sks.}$
Total Lead Cement	<b>= 699 sks.</b>

< Stage Collar (DV)  
5,975 ft.

#### Tail System:

Open Hole Fill	$(1,047 \times 0.3071 \times 1.35) / 1.6 = 271 \text{ sks.}$
Casing Shoe Cement	$(84 \times 0.0896) / 1.6 = 5 \text{ sks.}$
Total Tail Cement	<b>= 276 sks.</b>

< T.D. - 7,859 ft.



## Cementing Systems

Spacer System: 20 bbls .

**CW-100 Chemical Wash**

**Lead System: 700 sks.**

**Class B + 3% D79 + 1% S1 + 0.2% D46**

Mix Weight	:	11.4	PPG
Yield	:	2.88	cu.ft./sk.
Mix Water	:	17.71	gal./sk.
Fluid Loss	:	N/C	cc/30 minutes
Thickening Time	:	5:00	hours:minutes
Comp. Strength	:	300	psi in 48 hrs.

**Tail System: 275 sks.**

**50:50 Poz:Class B + 2.75% D20 + 0.2% D167 + 0.2% D46 + 0.25 pps D29**

Mix Weight	:	12.4	PPG
Yield	:	1.6	cu.ft./sk.
Mix Water	:	8.29	gal./sk.
Fluid Loss	:	372	cc/30 minutes
Thickening Time	:	4:30	hours:minutes
Comp. Strength	:	1,200	psi in 48 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.

This quote is valid for a period of thirty days from the date submitted. These prices are estimates based on current price structure and will vary somewhat with the materials, equipment, and time actually required at the time of service. The discount shown will be applicable to the most current Dowell price book in effect at the time of service. Not included are the costs of fluid storage, oil, water, (or transportation thereof) except as listed. Dowell does not offer these services.

The cement slurry data presented are from systems previously tested in Dowell laboratories. Thickening time tests should be run when field mix water is available and final temperatures are known. Mud\Cement compatibility tests should be run when final mud systems are in use. These tests could cause quantity variations of the materials recommended, thereby affecting the price of the job.

In the interest of safety, a pre-job tailgate safety meeting will be held with your representative and other on-location personnel to familiarize everyone with existing hazards and safety procedures. During this meeting a designated wash-up area will be assigned for our cementing unit to dispose of our cement slurry and drilling mud displacement fluid.

Thank you for considering Dowell for this work. Please do not hesitate to call with any questions or concerns.

Duane Gonzalez  
Houston, Tx