

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

5. Lease Designation and Serial No.

CONT 145

6. If Indian, Allottee or Tribe Name

JICARILLA

7. If Unit or CA, Agreement Designation

JICARILLA K

8. Well Name and No.

JICARILLA K 16E

9. API Well No.

30-039-25841

10. Field and Pool, or Exploratory Area

BLANCO MV/BASIN DK

11. County or Parish, State

RIO ARRIBA, NM

**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 (281) 293-1005

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

A, SEC.12, T25N, R5W  
1190' FNL & 1060' FEL

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

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:



RECEIVED  
SIN  
00 MAR 27 PM 1:29  
ALBUQUERQUE, N.M.

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

Signed [Signature]  
(This space for Federal or State office use)

Title Regulatory Analyst

Date 3/23/00

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

Title Lands and Mineral Resources

Date 4/6/00

# REVISED WELL PLAN OUTLINE

(Adjusted for surface elev. Change of 270' - old surf elevation of 6693')

EST. GL = 6963

WELL NAME **Jicarilla K No. 16E**

EST. KB = 6976

LOCATION **SEC 12, T-25N, R-5W, RIO ARRIBA CO., NM**

TVD IN	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING		FRAC GRAD. psi/ft	FORMATION PRESSURE PSI	MUD	
					SIZE	DEPTH			WT	TYPE
0				11" or 12 1/4" 7 7/8" or 8 3/4"	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
1									8.4 - 8.8# GEL/POLYMER MAINTAIN MW AS LOW AS POSSIBLE	
2										
3	OJAM @ 2796' FRLD @ 2972'	POSSIBLE WATERFLOW POSSIBLE GAS FLOW						432 PSI 360 PSI	CONTROL FLUID LOSS PRIOR TO OJAM	
4	PCCF @ 3340' LEWS @ 3486'	POSSIBLE LOST RETURNS POSSIBLE DIFFERENTIAL STICKING								
5	CHRA @ 4182'				DV TOOL SET @ 3870' (CONTINGENT ON LOST CIRCULATION) CMT TO SURFACE			400 PSI		
6	CLFH/MV @ 4974' MENF @ 4988'					0.5		457 PSI		
7	PTLK @ 5499'	POSSIBLE SEVERE LOST RETURNS								
8	MNCS @ 5860'				DV TOOL SET @ 5795' (50'-100' ABOVE MNCS) CMT TO DV TOOL @ 3870' OR TO SURFACE					
9	U. GLLP @ 6574' M. GLLP @ 6844'									
10	SNST @ 7151'									
11	GRHN @ 7450' GRRS DKOT @ 7506'	POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE	CASED HOLE LOGS	7-7/8" or 8 3/4"	4-1/2" 10.5# K-55 STC @ 7757'			715 PSI BHP - 2500 PSI BHT = 175 deg F	8.4 - 8.8# GEL/POLYMER	16
12	PAGU @ 7663' T.D. @ 7757'	IN DEEP DAKOTA			CMT TO DV TOOL AT TOP OF MNCS					
13	NOTE: PERMIT TO 7787'									

1:12 PM

DATE 03/23/00

PREPARED:

Ricky Joyce  
DRILLING ENGINEER



**PRIMARY CEMENTING PROPOSAL**

**SURFACE & LONGSTRING**

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**Conoco**

**Jicarilla K #16E**

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**Well Location**

County : Rio Arriba  
State : New Mexico  
Country : USA

Prepared for : Ricky Joyce

Date Prepared : 21-Mar-00

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](mailto:dgonzalez@houston.dowell.slb.com)

**Disclaimer Notice:**

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## Cementing Systems

**Spacer System: 20 bbls .**

**Fresh Water**

**Cement System: 200 sks.**

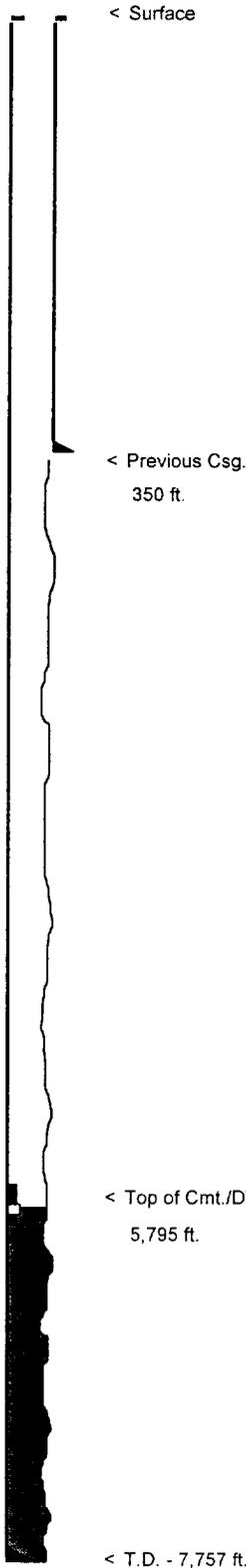
**Class B + 2% S1 + 0.25 pps D29**

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



Depth	7,757 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	130.6 °F
Total Excess	35 %
Tail Excess	35 %
Stage Collar Depth	5,795 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 5,795 ft.**

#### Cement System:

Open Hole Fill	$(1,962 \times 0.3071 \times 1.35) / 1.6 = 508$ sks.
Casing Shoe Cement	$(84 \times 0.0896) / 1.6 = 5$ sks.
Total Tail Cement	= 512 sks.

< Top of Cmt./DV Tool  
 5,795 ft.

< T.D. - 7,757 ft.

## Cementing Systems

Spacer System: 20 bbls .

CW-100 Chemical Wash

Cement System: 510 sks.

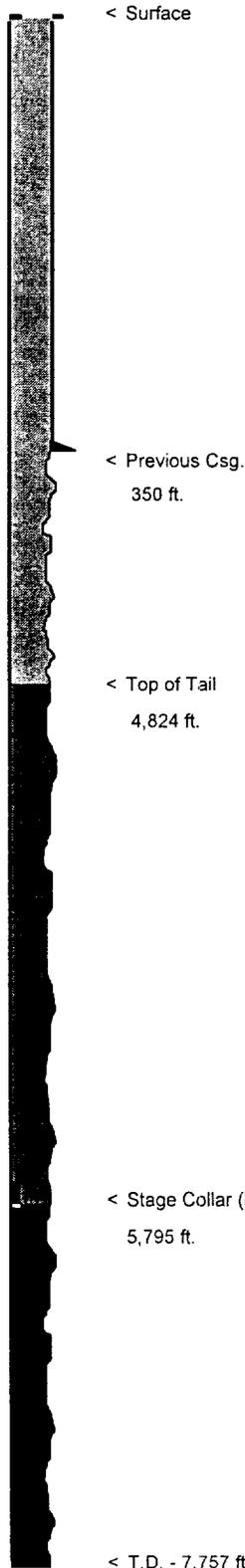
50:50 Poz:Class B + 2.75% D20 + 0.2% D167 + 0.2% D46 + 0.25 pps D29

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



Depth	7,757 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	113.6 °F
Total Excess	35 %
Lead Excess (calculated O.H.)	35.0 %
Tail Excess	35 %
Stage Collar Depth	5,795 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

<b>Top of Lead</b>	<b>Surface</b>
<b>Top of Tail</b>	<b>4,824 ft.</b>

#### Lead System:

Open Hole Fill	$(4,474 \times 0.3071 \times 1.35) / 2.88 = 645$ sks.
Previous Casing Fill	$(350 \times 0.3234) / 2.88 = 40$ sks.
<b>Total Lead Cement = 684 sks.</b>	

< Stage Collar (DV)  
5,795 ft.

#### Tail System:

Open Hole Fill	$(971 \times 0.3071 \times 1.35) / 1.6 = 251$ sks.
Casing Shoe Cement	$(84 \times 0.0896) / 1.6 = 5$ sks.
<b>Total Tail Cement = 256 sks.</b>	

< T.D. - 7,757 ft.