Form 3 160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 3 1 ,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 TRIPLICA TE

5. Lease Designation and Seriai No.: Cont 106

6. If Indian, Allonee or Tribe Name:

7. If Unit or CA, Agreement Designation: Jicarilla B

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.: 13M

2. Name of Operator: CONOCO INC
CONOCO INC.

9. API Well No.: 30-039-25773

3. Address and Telephone No.: 10 DESTA DR. STE. 430E, MIDLAND, TX. 79705-4500

10. Field and Pool, or Exploratory Area: Blanco MV/Basin Dakota

4. Location of Well (Footage. Sec., T. R. M. or Survey Description)
1060' FNL & 1040' FWL
Sec.36, T26N, R4W

11. County or Parish, State: Rio Arriba, NM

RECEIVED
FEB 17 1999
OIL CON. DIV.
DIST. 3

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Repon	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracrunng
	☐ Casing Repair	☐ Water Shut-Off
	☒ Altering Casing	☐ Conversion to Injection
	☐ Other _____	☐ Dispose Water

(Note: Reponresuitsof multiplecompitiononWdl Completion or Recompletion Report and Log form.)

13. Describe Proposed or Compieted Operations (Clearly state ail 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 Ann Johnson Title Sr. Property Analyst Date 2/5/99

(This space for Federal or State office use)

Approved by Title Lands and Mineral Resources Date FEB 12 1999
Conditions of approval if any:

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 junsdiction.

*See Instruction on Reverse Side

REVISED WELL PLAN OUTLINE

(7" Casing to TD)

WELL NAM **Jicarilla B No. 13M**

LOCATION: **SEC 36, UNIT D, T-26N, R-4W, RIO ARRIBA CO., NM**

EST. GL = 7089

EST. KB = 7103

TVD IN 1000	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE	CASING DEPTH	FRAC GRAD. psi/ft	FORMATION PRESSURE PSI	MUD WT	MUD TYPE	DAYS
0					12-1/4"	9-5/8" 36# K-55 ST&C @ 300' CIRC CMT			NORMAL	8.4 - 8.8#	SPUD MUD	1
					8-3/4"					8.4 - 8.8#	GEL/POLYMER	
1											MAINTAIN MW AS LOW AS POSSIBLE	
2												
3		OJAM @ 3063'	POSSIBLE LOST CIRC.								CONTROL FLUID LOSS PRIOR TO OJAM	
		FRLD @ 3369'										
		PCCF @ 3673'	POSSIBLE SEVERE LOSSES									
		LEWS @ 3839'										
4												
		CHRA @ 4604'										
5						DV TOOL SET @ 5100' (200'-400' ABOVE CLFH) CMT TO SURFACE		0.5	583 PSI			
		CLFH/MV @ 5314' MENF @ 5430'	PROBABLE LOST RETURNS IF FLUID IN HOLE									
		PTLK @ 5818'										
6		MNCS @ 6282'										
		U. GLLP @ 6929'										
7		M. GLLP @ 7168'										
		TOCT @ 7486'	PROBABLE LOST RETURNS IF FLUID IN HOLE			7" 26# J-55 STC @ 0-500' 7" 23# J-55 STC @500' to 6100'						
		GRHN @ 7798' GRRS DKOT @ 7864'		CASED HOLE LOGS	8-3/4"	7" 26# J-55		0.5	860 PSI	ADD 2% KCl @ GRRS DKOT 8.4 - 8.8#		
8		PAGU @ 8070' T.D. @ 8132'		PULSED NEUTRON		STC @6100' to 8132' CMT TO DV TOOL AT TOP OFCLFH			BHT = 175 deg F , BHP=2500	GEL/POLYMER		16
		NOTE: Permit to 8432'										

10:58 AM

DATE 02/05/99 APPROVALS:

PREPARED:

Ricky Joyner/Ted Kelly
DRILLING ENGINEER

RES. ENGINEER

PROD. ENGINEER

GEOLOGIST

DRILLING MGR.

Operator: CONOCO INC.	Well Name: Jicarilla B #13M
Project ID:	Location: Rio Arriba CO, NM

Design Parameters:

Mud weight (8.80 ppg) : 0.457 psi/ft
Shut in surface pressure : 1 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	500	7"	26.00	J-55	ST&C	500	6.151	
2	5,600	7"	23.00	J-55	ST&C	6,100	6.241	
3	2,032	7"	26.00	J-55	ST&C	8,132	6.151	

	Collapse Load (psi)	Collapse Strgth (psi)	Collapse S.F.	Burst Load (psi)	Min Int Yield Strgth (psi)	Burst S.F.	Tension Load (kips)	Tension Strgth (kips)	Tension S.F.
1	229	3595	9.999	228	4980	21.84	168.44	334	1.98 J
2	2789	3140	1.126	2788	4360	1.56	157.19	284	1.81 J
3	3717	4320	1.162	3717	4980	1.34	45.72	334	7.30 J

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

Design is for a Production string.
Minimum segment length for the 8,132 foot well is 1,500 feet.
The mud gradient and bottom hole pressures (for burst) are 0.457 psi/ft and 3,717 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)

Schlumberger
Dowell

9.625" Surface Pipe

Big A Rig 42
Conoco Inc.
Phone 320-8107

JICARILLA B 13M

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)*(2.00%)*(0.3132 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

Schlumberger
Dowell

7" production string - STAGE 1

Conoco Inc.
Phone 320-8107

JICARILLA B No. 13M
STAGE No. 1
Set 7" Casing at +/- 8132' lifting Cement up to DV tool @ 5100' in a 8.75" Hole.

One Cement Slurry mixed at 13.5 ppg with 75% excess

(8132-5100)*(1.75%)*(0.1503 ft/cu.ft.) Divided by 1.37 yield = 582 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 582 sx Cement Slurry AT 13.5 PPG

5 Drop plugs and displace with fresh water and open DV Tool

	582 SACKS	
System	50/50 + 2% Gel	7" LONGSTRING
Class	B	Concentr. UOM
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 @ 5100'.

7" production string - STAGE 2

125% excess

(5100)*(2.25%)*(0.1503 ft/cu.ft.) = 1725 cubic feet.

100 sacks of tail cement = 138 cubic feet

1725 cubic feet - 138 cubic feet = 1587 cubic feet of lead cement

1587 cubic feet divided by 2.86 yield for 555 sacks lead cement

1 Pump 10 bbl Water

2 Pump 20 bbl CW100 water spacer

3 Pump 10 bbl Water

4 Mix and pump 555 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

555 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

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