

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM MAIL ROOM

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.

10 Desta Dr, Ste 100W, Midland, TX 79705

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

1870' FSL & 1525' FWL

Sec. 18, T-32N, R-11W

5. Lease Designation and Serial No.

LF 078118

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

FC Federal Com 8

9. API Well No.

30-045-27831

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

San Juan, 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 Sidetrack/Horizontal

- ☒ 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.)\*

It is proposed to change the approved drilling permit for the proposed replacement well, FC Federal Com BR, as a horizontal well, to a sidetrack of the existing FC Fed Com 8 with horizontal lateral. NMOCD approval of a horizontal well in this spacing unit was approved by Division Order No. R-10071. Attached is an application to amend that order to provide for this proposed sidetrack of the existing FC Fed Com 8 well to drill the same horizontal lateral instead of initiating it from a new vertical wellbore.

The revised drilling plan for this sidetrack is included in the state application. Since the sidetracked hole will be left uncased, there will be no changes in the casing program for well No. 8. As shown in the attached application, the sidetracked horizontal is essentially the same project that was originally proposed for a replacement well. The primary difference is that it will be initiated from the existing well instead of a replacement wellbore just 85' away.

Improved slimhole drilling technology allows the original horizontal project to be accomplished by a sidetrack, a high angle build to a 90 degree lateral, and a smaller 4-3/4" open hole completion at a considerable cost savings. It also avoids the presence of an unnecessary, extra wellbore in this spacing unit.

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

Signed

(This space for Federal or State office use)

Title Sr. Conservation Coordinator

Approved by

Conditions of approval, if any:

Title

APPROVED

SEP 11 1995

DISTRICT MANAGER

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

NMOCD



Midland Division  
Exploration Production

Conoco Inc.  
10 Desta Drive, Suite 100W  
Midland, TX 79705-4500  
(915) 686-5400

RECEIVED  
MAIL ROOM  
95 SEP -8 PM 1:54

070 FARMINGTON, NM

September 5, 1995

Mr. Michael Stogner  
Oil Conservation Division  
2040 S. Pacheco  
Santa Fe, New Mexico 87504

**Re: Application to Amend Drilling Plan for a  
High Angle/Horizontal Directional Drilling  
Pilot Project for the FC Fed Com No. 8 Well  
Sec. 18, T-32N, R-11W, NMPM, as Previously  
Approved by Order No. R-10071**

Dear Mr. Stogner:

By Division Order No. R-10071, issued February 28, 1994, Conoco Inc. was authorized to initiate a high angle/horizontal directional drilling pilot project in the Basin Fruitland Coal Gas Pool within an existing standard gas spacing unit in the W/2 of Section 18, Township 32 North, Range 11 West, San Juan County, New Mexico.

The approved drilling plan called for a replacement well, the No. 8R, to be drilled just 85 feet to the Southwest of the existing well, the FC Fed Com No. 8. Both of these wells are shown on the attached map, EXHIBIT A, which also shows the spacing unit, the 790 foot setbacks, and the offset operators.

The replacement well, No. 8R, was proposed for a surface location at 1870 FSL and 1445 FWL. It was to be drilled vertically to 2585 feet, kicked off at a 12°/100 foot build angle, and laterally extended at a 90 degree angle upon encountering the top of the middle seam of the Fruitland Coal Formation. The entire wellbore, including the productive lateral section, were to be totally contained within the required 790 foot setback from the outer boundary of the spacing unit.

The implementation of this project has been delayed pending evaluation of the results of another similar horizontal drilling project. In the interim, advances in slimhole horizontal drilling technology make it more practical to achieve the same horizontal objective through a horizontal sidetrack of the existing well. Drilling horizontally from a sidetracked wellbore, with a smaller diameter wellbore than originally proposed, is expected to yield the same production increase as anticipated for the originally planned new well at a considerable cost savings.

Therefore, it now being proposed that the approved drilling plan be revised to allow (a) the horizontal lateral to be initiated from a sidetrack of the existing well, the FC Fed Com 8, located only 85 feet from the proposed new well and (b) the hole size to be reduced to a 4-3/4" open hole completion. As shown in EXHIBIT A, the entire wellbore will still be within the same approved drilling window, will follow a similar horizontal extension, and will have the same bottom hole target as that approved in Order No. 10071.


The revised drilling plan for this proposed sidetrack/horizontal project is included as EXHIBITS B, C, and D. EXHIBIT B is the traditional well plan outline while EXHIBIT C is a Section View of the horizontal sidetrack. As shown by EXHIBIT C, it is proposed to kickoff at 2869 feet with a 4-3/4" hole, building angle at 30°/100 feet until beginning the lateral extension in the top of the middle seam of the Fruitland Coal at a 90 degree angle.

EXHIBIT D shows both a horizontal plan and a vertical section of the horizontal lateral. Comparing this new vertical section, with the higher rate of build, to the one in the original plan shows that this actually gives the potential of drilling a lateral that would be 350 feet longer within the same drilling window.

All offsetting operators, as identified on EXHIBIT A, have been notified by copy of this application and by certified mail of this proposed amendment. Copies of the certified mail receipts are attached as EXHIBIT E.

I am enclosing a copy of Order No. R-10071 for your convenience. If I can provide you with any additional information that will assist you in evaluating this requested amendment, please contact me at (915) 686-6548.

Very truly yours,

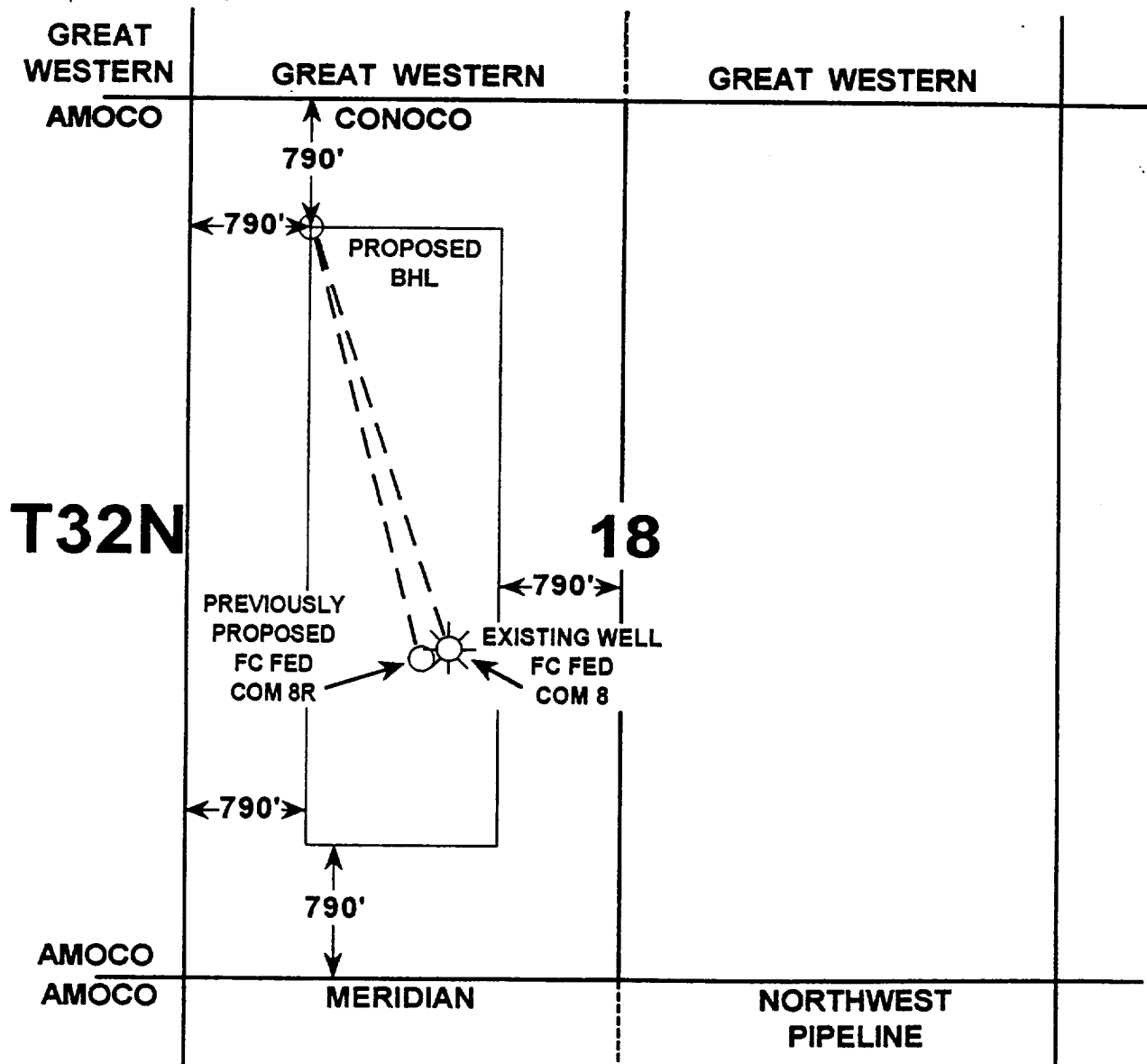
A handwritten signature in cursive script, appearing to read "Jerry W. Hoover".

Jerry W. Hoover  
Sr. Conservation Coordinator

# CONOCO, INC.

## PROPOSED HORIZONTAL FRUITLAND COAL WELL (SIDETRACK & LATERAL)

### F.C. FEDERAL COM 8



**R11W**

SAN JUAN CO., N.M.

EXHIBIT A

# PROPOSED WELL PLAN OUTLINE

WELL NAME: **FC FED COM 8 SIDETRACK**

EST. KB = +6627'

LOCATION: **1870' FSL & 1525' FWL, SEC 18, T32N, R11W, SAN JUAN CO., N.M.**

TVD IN 1000'	MD	FORMATION TOPS & TYPE	DRILLING PROBLEMS	TYPE OF FORMATION EVALUATION	HOLE SIZE	CASING SIZE DEPTH	FRAC GRAD	FORMATION PRESSURE GRADIENT	MUD WT TYPE	DAYS
0						8-5/8" 24# WC-50 CURRENTLY SET @ 231' WITH CMT TO SURFACE		NORMAL		
1		SAN JOSE SANDS @ 900 (+ 5727')						8.4 - 9.5#		
2		OIAM @ 1570' (+ 5057')								
3		FRLD @ 2830' (+ 3997') TOP FLD MIDDLE SEAM TARGET @ 3060' TVD	KOP @ 2869' BUILD RATE @ 30 DEGA/00' EOS @ 3169' MD/3060' TVD  HOLD 90 DEG TO TD @ 5699' MD (3060' TVD) FROM 3169' MD	MUDLOGGERS ON @ 2869'	4-3/4"	TD @ 5699' MD/3060' TVD OPEN-HOLE COMPLETION 5-1/2" 17# 1-70 CURRENTLY SET @ 3250' WITH CMT TO SURFACE		BHP = 600 PSI	9PPG-FWPOLYMER TO DRILL BUILD SECTION TO 3169' MD  AIR DRILL LATERAL	10
4										
5										
6										
7										
8										

DATE: AUGUST 1995

PREPARED: BILLY GOODWIN

EXHIBIT B

1870' FSL & 1525' FWL



790' FNL (4490' FSL) & 790' FWL

FC FED COM 8  
HORIZONTAL SIDETRACK  
SECTION VIEW

8 5/8 @ 233'

KICK-OFF POINT  
@ 2869'

BUILD ANGLE @ 30 DEG/100 FT

TOP FC @ 2632'  
TOP MS @ 3062'  
BOTTOM MS @ 3108'

TOP OF FRUITLAND  
FORMATION @ 2630'  
TOP OF MIDDLE SEAM  
@ 3060'  
BOTTOM OF MIDDLE  
SEAM @ 3106'

4-3/4" LATERAL @ 90.0 DEGREES

END OF BUILD  
@ 3060' (3165' M.D.)

5 1/2 @ 3250'

TOTAL DEPTH  
@ 3060' (5699' M.D.)

NOT TO SCALE

# CONOCO, INC.

Structure : FC FED COM NO.8

Field :

Location : SAN JUAN COUNTY, UTAH

## WELL PROFILE DATA

Point	MD	Inc	Dlr	TVD	North	East	Dep/100
Top of well	0	0.00	344.33	0	0	0	0.00
KOP	2869	0.00	344.33	2869	0	0	0.00
End of Build	3169	90.00	344.33	3060	184	-82	30.00
Target	5699	90.00	344.33	3060	2820	-735	0.00

West Scale 1 : 75.00

900 750 600 450 300 150 0 150 300

BOTTOM HOLE LOCATION  
790' FNL & 790' FWL

TRUE



Horizontal Plan

CLOSURE - 2721' @ 344.33 DEG AZIMUTH

North

Scale 1 : 75.00

Vertical Plan

SURFACE LOCATION  
1870' FSL & 1525' FWL  
SEC 18-32N-11W  
SAN JUAN COUNTY, NEW MEXICO

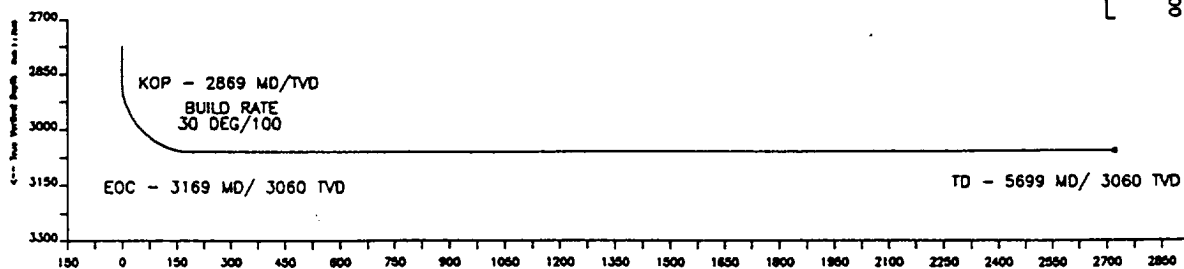


EXHIBIT D

Z 740 462 347



**Receipt for  
Certified Mail**  
No Insurance Coverage Provided

Meridian Oil Inc.  
P.O. Box 4289  
Farmington, NM 87499

PS Form 3800, March 1993

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 740 462 348



**Receipt for  
Certified Mail**  
No Insurance Coverage Provided

McKenzie Methane Co.  
& Quintana Petroleum  
P.O. Box 3331  
Houston, TX 77253

PS Form 3800, March 1993

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 740 462 349



**Receipt for  
Certified Mail**  
No Insurance Coverage Provided

Northwest Pipeline  
& Williams Production  
P.O. Box 58900  
Salt Lake City, UT 8415

PS Form 3800, March 1993

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 740 462 350



**Receipt for  
Certified Mail**  
No Insurance Coverage Provided

Southland Royalty Co.  
& Meridian Oil INC.  
P.O. Box 4289  
Farmington, NM 87499

PS Form 3800, March 1993

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 740 462 351



**Receipt for  
Certified Mail**  
No Insurance Coverage Provided

Amoco Production Co.  
P.O. Box 800  
Denver, CO 80201

PS Form 3800, March 1993

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 740 462 352



**Receipt for  
Certified Mail**  
No Insurance Coverage Provided

Emerald Gas Operating Co.  
501 West 1-44 Service Rd.  
#310  
Oklahoma City, OK 73118

PS Form 3800, March 1993

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, March 1993

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Great Western Drilling  
P.O. Box 1659  
Midland, TX 79701



**Receipt for  
Certified Mail**  
No Insurance Coverage Provided

Z 740 462 353

EXHIBIT E