

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Conoco Inc. 5073

3a. ADDRESS AND TELEPHONE NO

10 Desta Dr. Ste 430E, Midland, Tx. 79705-4500

915-686-5794

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements *)

At surface

1640' FNL & 1835' FWL

At proposed prod. zone

1640' FNL & 1835' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

5. LEASE DESIGNATION AND SERIAL NO

SF 077092B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME WELL NO

22385 HOUCK #2M

9. API WELL NO

30-045-29564

10. FIELD AND POOL, OR WILDCAT

72319 Blanco MV / Basin Dakota 71599

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA

F Sec. 11, T29N, R10W

12. COUNTY OR PARISH

San Juan

13. STATE

NM

5. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT (Also to nearest drlg. unit line, if Any)

16. NO OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL

320/1514.80

8. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

7125

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc)

5819' GR

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

22. APPROX. DATE WORK WILL START*

4/15/98

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	K-55, 9-5/8"	36#	250'	135 sxs, circ.
8-3/4"	K-55, 7"	23#	2546'	310 sxs, circ.
6-1/4"	K-55, 4-1/2"	9.5#	6864'	470 sxs, toc @ 2400'

It is proposed to drill a vertical wellbore to the Blanco Mesaverde and Basin Dakota Pools. NOS was filed 2/21/98. The well will be drilled and equipped according to the following additional attachments:

1. Well Location & Acreage Dedication Plat (C-102).
2. Proposed Well Plan Outline.
3. Cementing Plan.
4. Blowout Preventer Hookup.
5. Surface Use Plan with Production Facility Layout.
6. Pipeline survey plat.

RECEIVED
MAR 25 1998
OIL CON. DIV.
DIST. 3

This application includes ROW's for the well pad, access road and pipeline.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Mike L. Mankin TITLE Right-of-Way Agent DATE March 3, 1998

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY AS/Diane W. Spencer TITLE _____ DATE MAR 25 1998

*See Instructions On Reverse Side

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.

NMOCD

District II
PO Drawer 00, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-29564		*Pool Code 72319 / 71599		*Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
*Property Code 22385		*Property Name HOUCK			*Well Number 2M
*GRID No. 005073		*Operator Name CONOCO, INC.			*Elevation 5819'

¹⁰ Surface Location

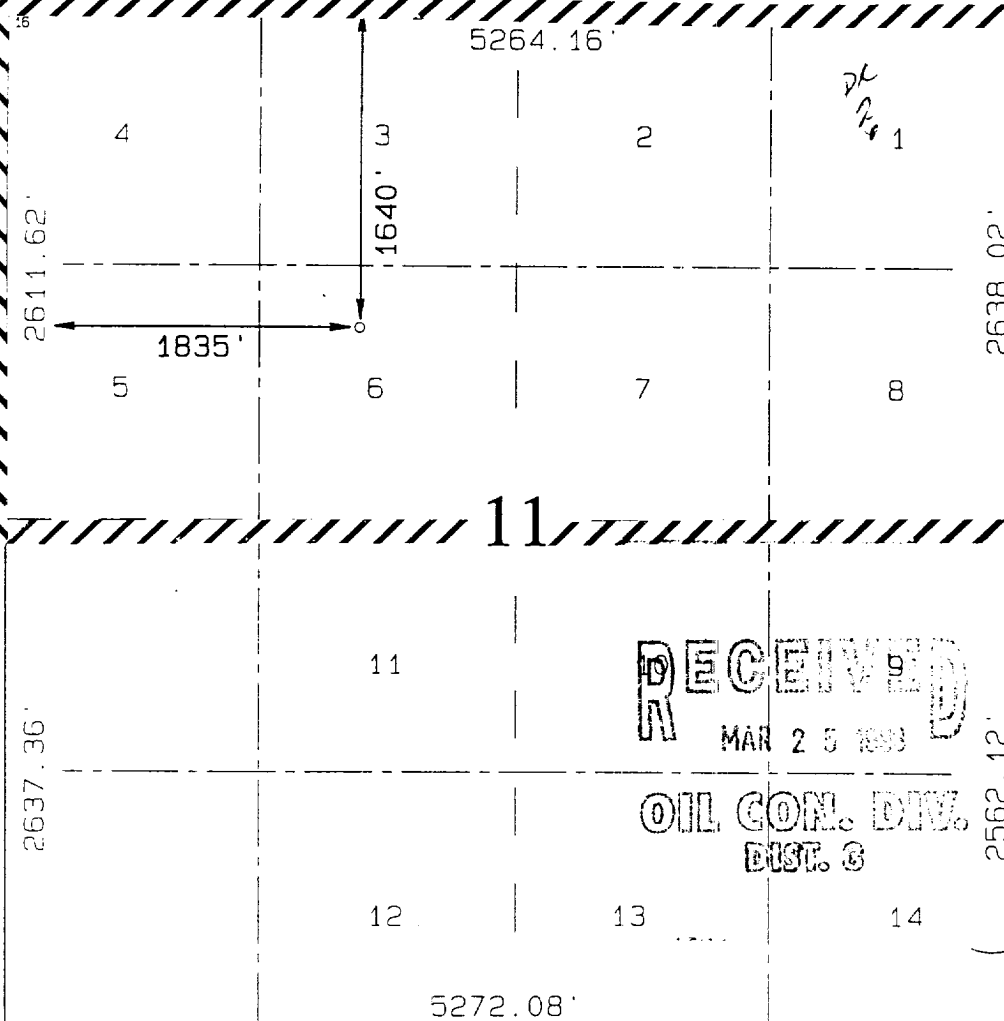
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	11	29N	10W		1640	NORTH	1835	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320 3/4 80 3/4 80					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature: *Mike L. Mankin*

Printed Name: Mike L. Mankin

Title: Right-Of-Way Agent

Date: 2-3-98

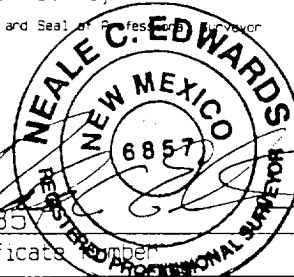
¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

Date of Survey: FEBRUARY 16, 1998

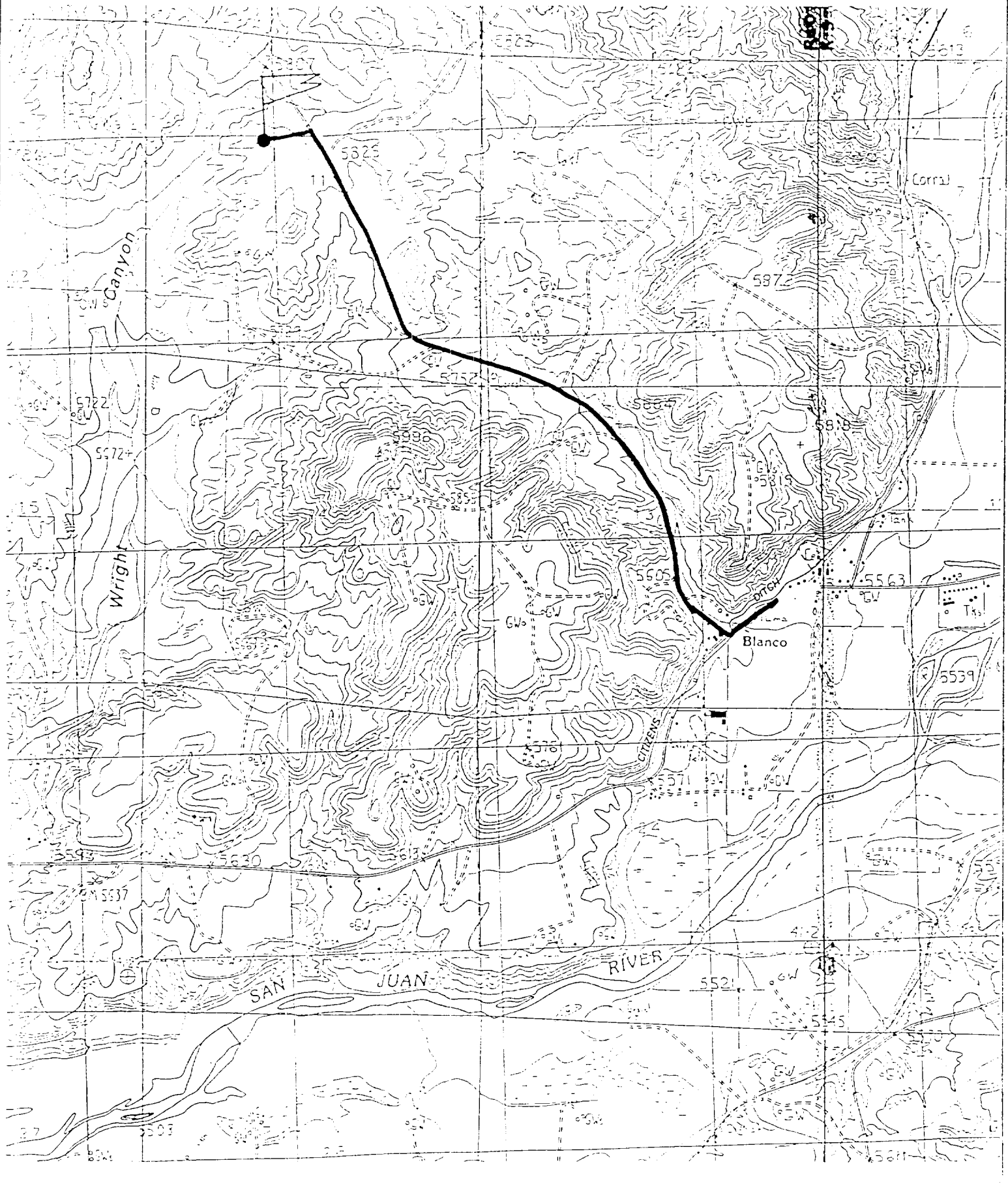
Signature and Seal of Registered Professional Surveyor: *Neale C. Edwards*

Certificate Number: 6857



CONOCO, INC. HOUCK #2M

1640' FNL & 1835' FNL SECTION II, T29N, R10W
N.M.P.M., SAN JUAN COUNTY, NEW MEXICO



PROPOSED WELL PLAN OUTLINE

WELL NAME HOUCK No. 2M

EST. GL = 5819

EST. KB = 5830

LOCATION SEC 11, T-29N, R-10W, SAN JUAN CO., NM

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
12 1/4"			8-3/4"	9-5/8" 16# K 55 ST&C @ 250' CIRC CMT			NORMAL	8-4" 8-3# SPUD MUD 8-4" 9-0# GEL WATER		1
OJAM @ 1014' KRLO @ 1174'	POSSIBLE WATERFLOW									
FRLO @ 1949'	POSSIBLE GAS FLOW									
PCCF @ 2248'	POSSIBLE LOST RETURNS POSSIBLE DIFFERENTIAL STICKING		8-3/4"	7" 23# K-55 LTC @ 2545' (special drift) CIRC CMT						5
CHRA			8-1/4"					AIR/AIR MIST/GAS		
CLFH/MV @ 3940' MENF @ 4037'	PROBABLE LOST RETURNS IF FLUID IN HOLE					0.5	475 PSI 563 PSI			
PTLK @ 4520'										
GLLP @ 5755'										
GRHN @ 6502' GRRS DKOT @ 6619'	POSSIBLE WATERFLOW POSSIBLE OVERPRESSURE IN DEEP DAKOTA	CASED HOLE LOGS	8-1/4"	4-1/2" 3.5# K-55 LTC @ 6864' TOC @ 2400'		0.5	715 PSI BHT = 175 deg F	AIR/AIR MIST/GAS		10
T.D. @ 6825'										
NOTE: PERMIT TO 7125'										

DATE 02/26/98

APPROVALS:

PREPARED:

Ricky Joyce/Ted Kelly
DRILLING ENGINEER

RES. ENGINEER

PROD. ENGINEER


 GEOLOGIST

DRILLING MGR.

09:45 AM