

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

5. Lease Serial No.
NOO-C-14-20-3629
6. If Indian, Allottee or Tribe Name
Navajo Allotted
7. If Unit or CA Agreement, Name and No.

a. Type of Work: ☒ DRILL ☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Coleman Oil and Gas Company

3A. Address

c/o Walsh Engineering, 7415 E. Main, Farmington, NM 87402

3b. Phone No. (include area code)

505.327.4892

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface **1750' FNL and 1595' FEL**

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office*

15 miles south of Farmington, NM

15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)

890'

16. No. of Acres in lease

160

17. Spacing Unit dedicated to this well

320 acres N/2

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.

70'

19. Proposed Depth

1370'

20. BLM/BIA Bond No. on file

013002853

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

6040' GL

22. Approximate date work will start*

March 2002

23. Estimated duration

2 weeks

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO shall be filed with the appropriate Forest Service Office.

4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the
authorized office.

25. Signature

Paul C. Thompson

Name (Printed/Typed)

Paul C. Thompson, P.E.

Date

1/4/02

Title

Agent

Approved by (Signature)

Chip Harraden

Name (Printed/Typed)

Chip Harraden

Date

5/16/02

Title

Geologist - PMT

Office

BLM - FFO

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, are attached.

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

*(Instructions on reverse)

HOLD C104 FOR change in status to Cardinal Com #1

MMOCD

District I
PO Box 1980, Hobbs, NM 88241-1980

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised February 21, 1994

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-30972		2 Pool Code 71629		3 Pool Name BASIN FRUITLAND COAL	
4 Property Code 25082		5 Property Name CARDINAL COM			6 Well Number 1R
7 OGRID No. 004838		8 Operator Name COLEMAN OIL & GAS, INC.			9 Elevation 6040'

10 Surface Location

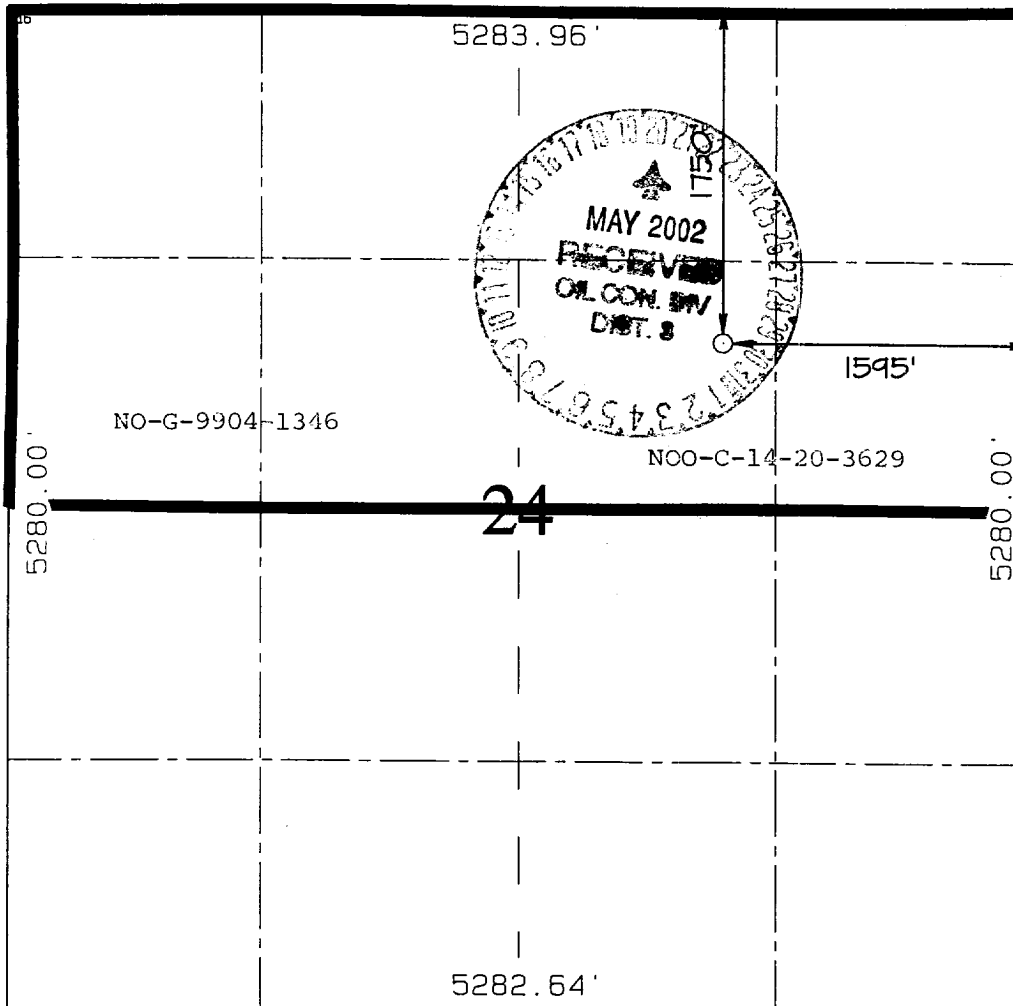
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	24	26N	12W		1750	NORTH	1595	EAST	SAN JUAN

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	13 Joint or Infill Y	14 Consolidation Code C	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

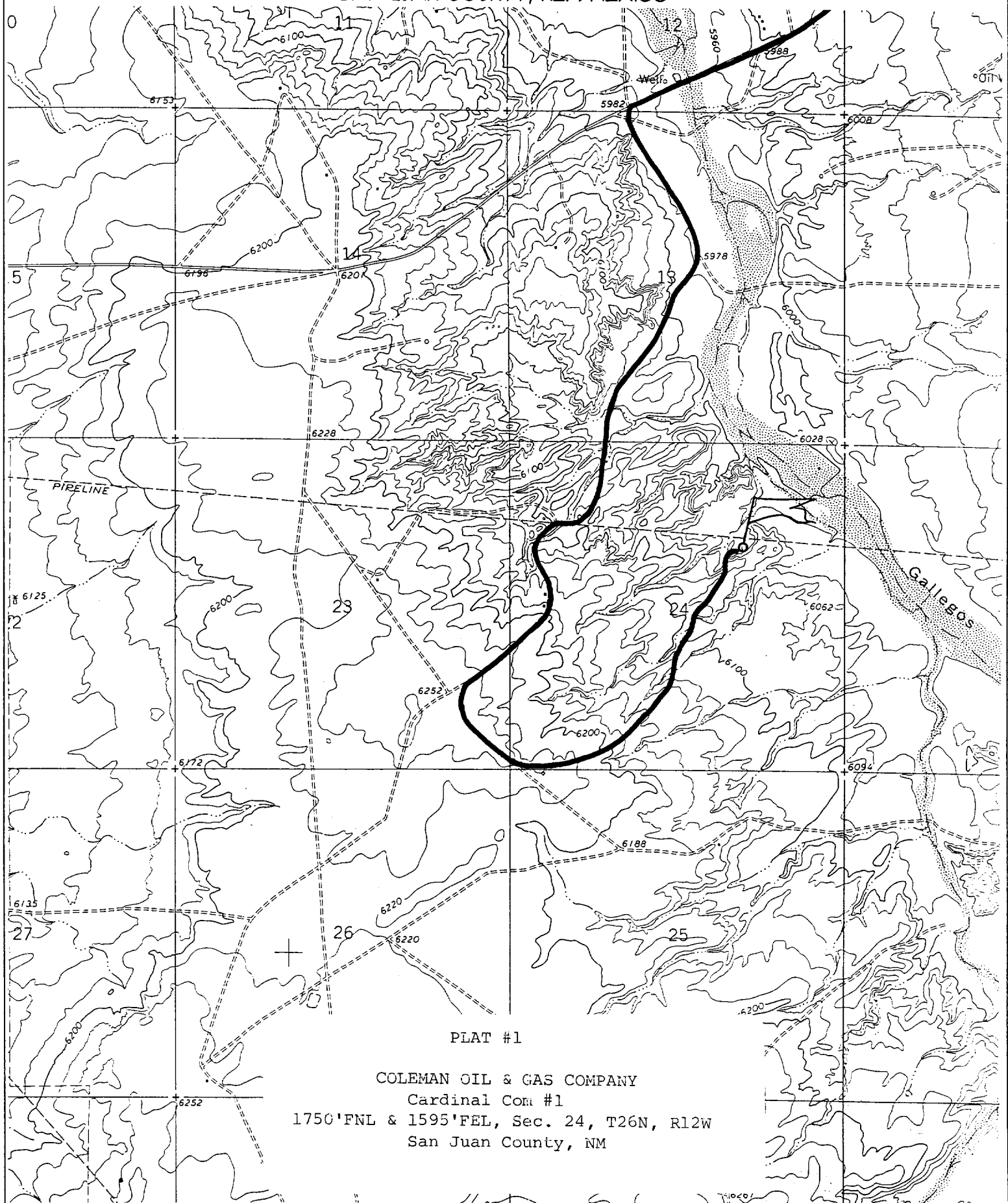
Paul C. Thompson
Signature
Paul C. Thompson
Printed Name
Agent
Title
1/4/02
Date

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.

DECEMBER 1, 2000
Date of Survey
Signature and Seal of Professional Surveyor
Neale C. Edwards
NEALE C. EDWARDS
NEW MEXICO
6857
Certificate Number 6857

1750' FNL & 1595' FEL, SECTION 24, T26N, R12W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

1750' FNL & 1595' FEL, SECTION 24, T26N, R12W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO



**COLEMAN OIL AND GAS
OPERATIONS PLAN
Cardinal Com #1R**

I. Location: 1750' FNL & 1595' FEL Date: June 4, 2001
 Sec 24 T26N R12W
 San Juan County, NM

Field: Basin Fruitland Coal Elev: GL 6040'
Surface: Navajo Allotted
Minerals: NOO-C-14-20-3629

II. Geology: Surface formation _ Nacimiento

<u>Formation Tops</u>	<u>Depths</u>
Ojo Alamo	215'
Kirtland	345'
Fruitland	930'
Fruitland Coal	1185'
Pictured Cliffs	1210'
Total Depth	1370'

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 930'; gas - 1210'.

B. Logging Program: None.

C. No over pressured zones are expected in this well. No H₂S zones will be penetrated in this well. Max. BHP = 500 psig.

III. Drilling

A. Contractor:

B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.5 ppg.

C. Minimum Blowout Control Specifications:

Double ram type or annular type 2000 psi working pressure BOP with a rotating head. See the attached exhibits (#1 through #3) for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

C. Cont.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
8-3/4"	120'	7"	20# J-55
6-1/4"	1370'	4-1/2"	10.5# J-55

B. Float Equipment:

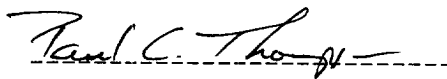
a) Surface Casing: None

b) Production Casing: 4-1/2" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every other joint from the top of the well.

V. Cementing:

Surface casing: 7" - Use 30 sx (36 cu. ft.) of Cl "B" with 2% CaCl_2 and $\frac{1}{4}$ #/sk. celloflake. Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

Production Casing: 4-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with 110 sx (227 cu.ft) of Cl "B" with 2% metasilicate and $\frac{1}{4}$ #/sk. celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 50 sx (59 cu.ft.) of Cl "B" with 2% CaCl_2 and $\frac{1}{4}$ #/sk. celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). Total cement volume is 286 cu.ft. (100% excess to circulate cement to surface).


Paul C. Thompson, P.E.