

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.  
**NM-109407**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.  
**32271**

8. Lease Name and Well No.  
**Federal Strat Test C-1C**

9. API Well No.  
**3004531588**

10. Field and Pool, or Exploratory  
**Wildcat Mancos**

11. Sec., T., R., M., or Bk. and Survey or Area  
**B Sec 35 T24N R11W**

12. County or Parish  
**San Juan County**

13. State  
**NM**

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other ☒ Strat ☐ Single Zone ☐ Multiple Zone

2. Name of Operator  
**Northstar Oil and Gas**

3a. Address  
**PO Box 93, Farmington, NM 87499**

3b. Phone No. (include area code)  
**505-327-5751**

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface **1214' FNL 1478' FEL NWNE**  
At proposed prod. zone **Same as Above**

14. Distance in miles and direction from nearest town or post office\*  
**12.5 Southwest of Blanco Trading Post**

15. Distance from proposed\*  
location to nearest  
property or lease line, ft. **1214'**  
(Also to nearest drig. unit line, if any)

16. No. of Acres in lease  
**1280**

17. Spacing Unit dedicated to this well  
**NA to be plugged**

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

19. Proposed Depth  
**4000'**

20. BLM/BIA Bond No. on file  
**RLB 0000932**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**6540 KB 6540**

22. Approximate date work will start\*  
**Upon approval**

23. Estimated duration  
**10 days**

24. Attachments

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

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature **John C. Corbett** Name (Printed/Typed) **John C. Corbett** Date **3/21/03**

Title **President - Northstar Oil and Gas**

Approved by (Signature) **David J. Mankiewicz** Name (Printed/Typed) **David J. Mankiewicz** Date **APR 14 2003**

Title \_\_\_\_\_ Office \_\_\_\_\_

Application approval does not warrant or certify the 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.

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)

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

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

NMCOO

**DISTRICT II**  
**511 South First, Artesia, N.M. 88210**

**DISTRICT III**  
**1000 Rio Brazos Rd., Astec, N.M. 87410**

**DISTRICT IV**  
**2040 South Pacheco, Santa Fe, NM 87505**

## OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, NM 87505

**Submit to Appropriate District Office**  
**State Lease - 4 Copies**  
**Fee Lease - 3 Copies**

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-31588		<sup>2</sup> Pool Code	<sup>3</sup> Pool Name
<sup>4</sup> Property Code 32271	<sup>5</sup> Property Name FEDERAL STRAT TEST C		<sup>6</sup> Well Number 1C
<sup>7</sup> OGRID No. 159026	<sup>8</sup> Operator Name NORTHSTAR OIL & GAS CO.		<sup>9</sup> Elevation 6532' 9L

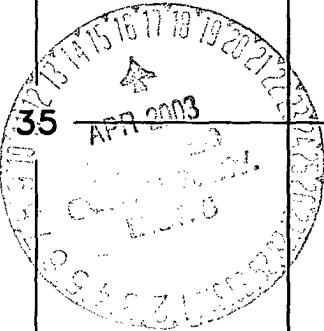
### <sup>10</sup> Surface Location

UL or lot no. B	Section 35	Township 24-N	Range 11-W	Lot Idn	Feet from the 1214'	North/South line NORTH	Feet from the 1478'	East/West line EAST	County SAN JUAN
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<sup>11</sup> 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
<sup>23</sup> Dedicated Acres			<sup>24</sup> Joint or Infill		<sup>25</sup> Consolidation Code		<sup>26</sup> Order No.		

**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**

16	FD U.S.G.L.O. BC. 1932  LAT. 36°16'26" N LONG. 107°58'07" W	N 89-33-22 W 2624.25' (M)  (NAD 83)	FD U.S.G.L.O. BC. 1932
		1214' 1148' 101' 168' 1478'	
			S 00-12-10 W 2630.62' (M)
		FD U.S.G.L.O. BC. 1932	


### 17 OPERATOR CERTIFICATION

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

John C. Corbett  
 Signature  
JOHN C. CORBETT  
 Printed Name  
PRESIDENT  
 Title  
3/10/2003  
 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.

DAVID A. JOHNSON  
 Date of Survey  
 Signature and Seal of Professional Surveyor:  
  
14827  
 Certificate Number

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM -109407

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal Strat Test C-1C

9. API Well No.

10. Field and Pool, or Exploratory Area

Undesignated - Strat Test

11. County or Parish, State

San Juan Co., NM

**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

Northstar Oil and Gas Corp.

3. Address and Telephone No.

P.O. Box 93, Farmington, NM 87499 (505) 327-5751

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

1214' FNL & 1478' FEL  
Section 35, T24N, R11W NMPM

**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 \_\_\_\_\_

- ☐ 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.)\*

This well is planned to be drilled as a Stratigraphic Test Well.

No completion is to be attempted. It will be drilled and immediately plugged.

Cement plugs will be set:

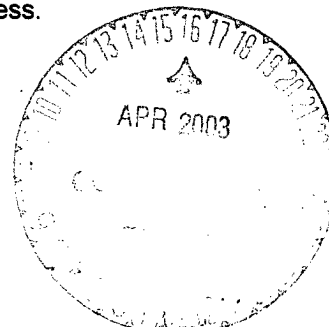
From surface to 50'

A 100' plug across the surface casing shoe with 100% excess.

A 100' plug across the top of the Fruitland Formation with 100% excess.

A 100' plug across the Pictured Cliffs Formation with 100% excess.

A 100' plug across the top of the Mesa Verde with 100% excess.



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

Signed

*John C. Carlson*

Title

President

Date

March 20, 2003

(This space for Federal or State office use)

Approved by

Original Signed: Stephen Mason

Title

Date

4/14/03

Conditions of approval, if any:

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

Northstar Oil and Gas Corp.  
Federal Strat Test 1C-1  
1214' FNL, 1478' FWL  
NWNE Sec. 35, T24N, R11W  
San Juan County, New Mexico

The Federal Strat Test 1C-1 is to be drilled on Federal surface and minerals administered by the Bureau of Land Management. The proposed location is approximately 13.5 miles SW of NM-44 from the Blanco Trading Post. Drilling and plugging operations will last approximately ten days. All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of this application and any conditions of approval will be furnished to the field representative to insure compliance.

### **Drilling Program:**

#### **1. Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth(TVD)</u>	<u>Subsea</u>
Alluvium	0'	0'
Kirtland Formation	30'	6,502'
Fruitland Formation	637'	5,895'
Pictured Cliffs Sandstone	965'	5,567'
Cliff House Sandstone	1,692'	4,840'
Mancos Shale	3,531'	3,001'
T.D.	4,000'	2,532'

All tops are projected from the Roadrunner #1, Sec. 36, T24N, R11W

#### **2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth(TVD)</u>
Gas	Fruitland Coal	925'
Water	Cliff House	1,692'
Other Mineral Zones	N/A	N/A

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### **3. Pressure Control Equipment: - The BOP to be used is detailed in the attached diagram. An upper Kelly cock valve will be employed with an accessible handle**

#### **4. Mud Program:**

The surface hole will be drilled with a gel-lime slurry mixed to 40 – 50 sec./qt viscosity. Beneath surface mud will be conditioned for coring operations.

# NORTHSTAR OIL AND GAS

P.O. Box 93

Farmington, NM 87499

(505) 327-5751

April 11, 2003

2003 APR 11 PM 12:21

070 Farmington, NM

Mr. Stephan Mason  
Bureau of Land Management  
1235 La Plata Highway  
Farmington, NM 87401

Subject: Additional Technical Information  
Application to Drill Federal Strat Test 1C-1

Dear Mr. Mason:

Please accept this letter as an addendum to Part 6 of the drilling plan of the referenced APD.

The surface hole will be a 7" hole drilled to 300' GLE. The 4.5" casing will be cemented back to surface with 100 sacks of Class "B" cement (yield = 1.18 cf/sack) which is 150% excess.

$$\begin{aligned}(0.1568 \text{ cubic ft / linear ft})(300') &= 47.04 \text{ cubic ft} \\ 47.04 \text{ cubic ft} / 1.18 \text{ cubic ft/sack class B} &= 39.9 \text{ sx} \\ (100 \text{ sx} / 39.9 \text{ sx}) - 1 &= 150\% \text{ excess}\end{aligned}$$

We will wait on surface cement 12 hours to obtain a compressive strength of 500# before drilling out.

We will test the BOP to 1250#.

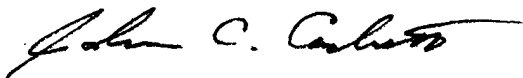
$$(4000' \text{ depth})(0.433 \text{ \#/ft gradient})(70\%) = 1212.4\#$$

For plugging purposes, the stratigraphic test hole will be 3.5" O.D. The 100' minimum plugs will be 10 sx class B each which is 76% excess.

$$\begin{aligned}(0.0668 \text{ cubic ft/ linear ft})(100') &= 6.68 \text{ cubic ft} \\ 6.68 \text{ cubic ft} / 1.18 \text{ cubic ft/sack class B} &= 5.66 \text{ sx} \\ (10 \text{ sx} / 5.66 \text{ sx}) - 1 &= 76\% \text{ excess}\end{aligned}$$

Please contact Northstar Oil and Gas at (505) 327-5751 with any questions.

Respectfully,  
Northstar Oil and Gas Corp.



John C. Corbett  
President

Northstar Oil and Gas Corp.  
Federal Strat Test 1C-1  
1214' FNL, 1478' FWL  
NWNE Sec. 35, T24N, R11W  
San Juan County, New Mexico

Fluid properties will be:

Weight – 8.4 to 8.8 #/gallon  
Viscosity – 34-45 sec. qt  
Plastic Visc. – 4-8 cps  
Fluid Loss – 8-12 cc's API  
pH 8.3 – 8.5  
Solids Content – 5-1/2% or less  
Annular velocity – 120'/min during normal drilling

Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control during the course of drilling operations.

5. Testing, Logging and Coring

This well will be cored in potential pay zones. Open hole logs will include induction-electric and gamma logs for correlation purposes. Drill stem testing is not anticipated. There will be no cased hole logs run as there will be no production casing.

6. Proposed Casing and Cementing Program will be as follows:

Surface casing will be 300' of 4.5", 10.5# J-55 ST&C new casing. It will be cemented to surface using three centralizers and 200 sacks Class "B" cement with 2% CaCl and 1/4#/sack cellophane flakes. Cement will be displaced with water to 30' above the shoe. Rig will wait on cement until a compressive strength of 500# is reached.

There will be no production casing. After drilling operations are completed the hole will be plugged with class "B" cement as follows:

1. Circulate and condition hole to clean with mud.
2. Mix and pump class "B" cement plugs as follows:

From surface to 50'

A 100' plug across the surface casing shoe with 100% excess.

A 100' plug across the top of the Fruitland Formation with 100% excess.

A 100' plug across the Pictured Cliffs Formation with 100% excess.

A 100' plug across the top of the Mesa Verde with 100% excess.

7. When the well is completed as a dry hole the "Well Completion and Recompletion Report Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (A.O.).

Equipment designed to meet 2M rating for 2000# pressure control per 43 CFR as amended. Upper Kelly Cock Valve will be in use with handle accessible.

