

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

RECEIVED

Form C-101

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

OIL CON. DIV.
DIST. 2

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address. Thornton Operating Corporation P. O. Box 833 Midland, TX 79702		OGRID Number 023003
Property Code 17057	Property Name Northern Lights	API Number 30-005-63067
		Well No. 1

Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
0	7	8S	29E	0	449	South	2183	East	Chaves

Proposed Bottom Hole Location If Different From Surface

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

Proposed Pool 1 Undrill 3 66101	Proposed Pool 2 Post ID-1 5-12-95 New Loc. + API
------------------------------------	---

Work Type Code N	Well Type Code 0	Cable/Rotary R	Lease Type Code S	Ground Level Elevation 4068
Multiple No	Proposed Depth 7000	Formation Fusselman	Contractor United Drilling	Spud Date 5/3/95

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17.50	13.375	48#	420	400 Sx "C" 2%	CaCl/circ.
12.25	8.625	24#/32#	2770	1400 Sx "L" 2%	CaCl/circ.
7.875	5.500	15.50#	6850	350 Sx "C" 50/50 Poz 5000'	

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Mud Program

Mud Wt.

Visc

Oil

Water Loss

0-420'

Air/Foam

N/A

N/A

N/A

N/A

420 - 2770

Air/Foam

N/A

N/A

N/A

N/A

2770 - 5150

Cut Brine/Caustic

9.0-9.2

28-29

5-6

None

5150 - 7000

Cut Brine/Saltgel/
Oil/Starch

9.2-9.4

36-40

5-6

6-10

Continued on additional sheet

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

Signature:

Robert L. Thornton

Printed name:

Robert L. Thornton

Title:

President

Date:

April 26, 1995

Phone:

(915) 684-4275

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR

Title:

Approval Date:

MAY 3 1995

Expiration Date:

11-3-95

Conditions of Approval:

Attached ☐

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

PO Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number	2	Pool Code	3	Pool Name
4	Property Code	5	Property Name	6	Well Number
7	OGRID No. 023003	8	Operator Name Thornton Operating Company	9	Elevation 4068

¹⁰Surface Location

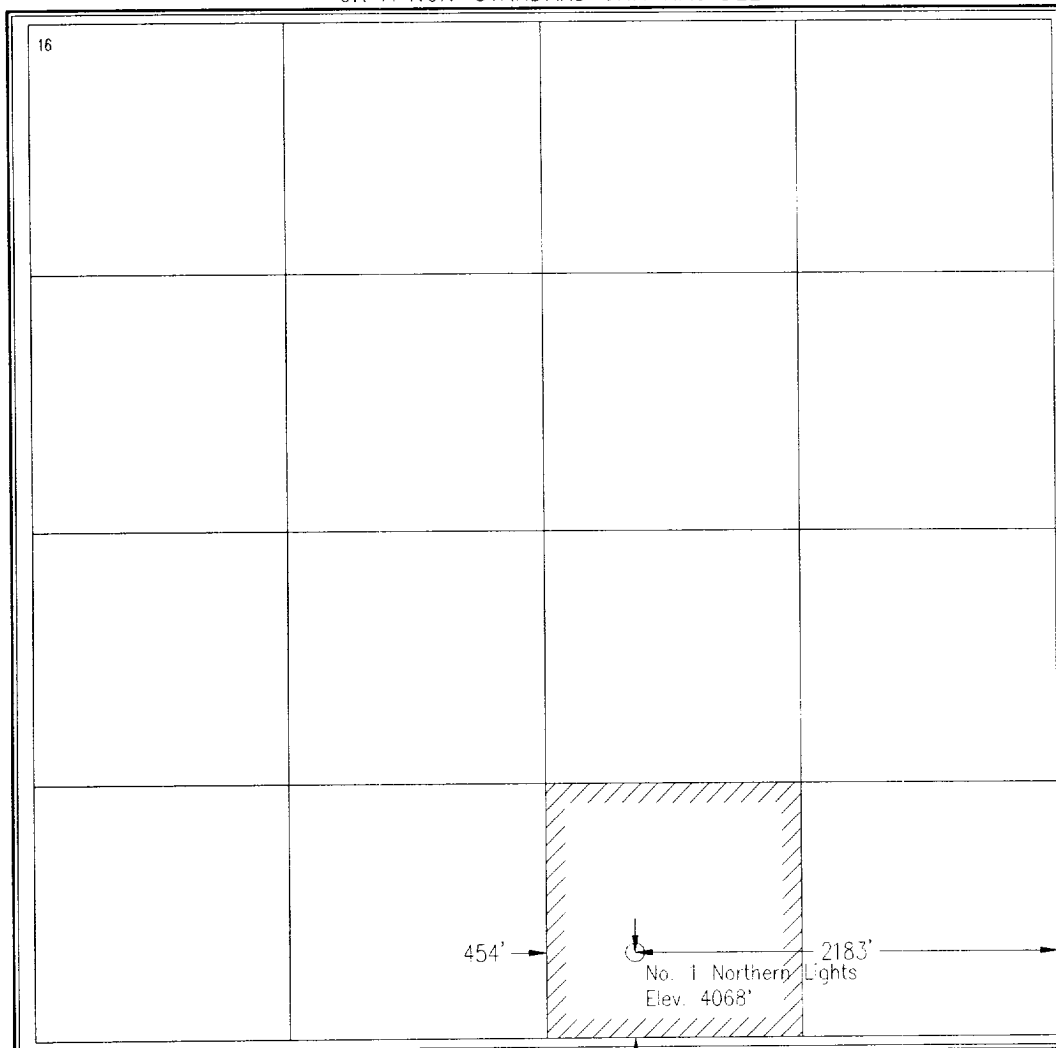

UL or lot no. 0	Section 7	Township 8 S	Range 29 E	Lot Idn 0	Feet from the 449	North/South line South	Feet from the 2183	East/West line East	County Chaves
--------------------	--------------	-----------------	---------------	--------------	----------------------	---------------------------	-----------------------	------------------------	------------------

¹¹Bottom 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 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------------	-------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNIT ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16</div> 	<div>17</div> <h3>OPERATOR CERTIFICATION</h3> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Robert L. Thornton</i> Signature Robert L. Thornton Printed Name President Title 5/1/95 Date</p>
	<div>18</div> <h3>SURVEYOR CERTIFICATION</h3> <p>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.</p> <p>April 26, 1995 Date of Survey Signature and Seal of Professional Surveyor.</p>  <p>Certificate Number 10324</p>

34 Miles NE of Roswell, New Mexico.

File No. A-0490

New Mexico Oil Conservation Division
C-102 Instructions

IF THIS IS AN AMENDED REPORT, CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

Surveyors shall use the latest United States government survey or depended resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the appropriate OCD district office. Independent subdivision surveys will not be acceptable.

1. The OCD assigned API number for this well
2. The pool code for this (proposed) completion
3. The pool name for this (proposed) completion
4. The property code for this (proposed) completion
5. The property name (well name) for this (proposed) completion
6. The well number of this (proposed) completion
7. Operator's OGRID number
8. The Operator's name
9. The ground level elevation of this well
10. The surveyed surface location of this well measured from the section lines, NOTE: if the United States government survey designates a Lot Number for this location use that number in the "UL or Lot no." box. Otherwise use the OCD unit letter.
11. Proposed bottom hole location. If this is a horizontal hole indicate the location of the end of the hole.
12. The calculated acreage dedicated to this completion to the nearest hundredth of an acre.
13. Put a Y if more than one completion will be sharing this same acreage or N if this is the only completion of this acreage
14. If more than one lease of different ownership has been dedicated to the well show the consolidation code from the following table:

C	Communitization
U	Unitization
F	Forced pooling
O	Other
P	Consolidation pending

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!

15. Write in the OCD order(s) approving a non-standard location, non-standard spacing, or directional or horizontal drilling

16. This grid represents a standard section. You may superimpose a non-standard section over this grid. Outline the dedicated acreage and the separate leases within that dedicated acreage. Show the well surface location and bottom hole location, if it is directionally drilled with the dimensions from the section lines in the cardinal directions. (Note: A legal location is determined from the perpendicular distance to the edge of the tract.) If this is a high angle or horizontal hole show that portion of the well bore that is open within this pool.

Show all lots, lot numbers, and their respective acreage.

If more than one lease has been dedicated to the completion, outline each one and identify the ownership as to both working interest and royalty.

17. The signature, printed name, and title of the person authorized to make this report, and the date this document was signed.
18. The registered surveyors certification. This section does not have to be completed if this form has been previously accepted by the OCD and is being filed for a change of pool or dedicated acreage.

22) Continued

Yates	1000
Seven Rivers	1090
San Andres	2100
Pi Marker	2580
P-1	2710
Tubb	4590
Abo	5350
Wolfcamp	6030
Penn	6400
Siluro Dev	6830

BOP Program

12-1/4" Rotating head will be installed on the 13-3/8" casing.
A 3000 psi Type F Schaffer BOP will be installed on the 8-5/8" casing. BOP will be tested to 3000# before drilling with 7-7/8" bit. BOP will be operated daily.

Drilling Program

Well will be air drilled to 420' and 13-3/8 will be set. Well will be air drilled to 2770' where 8-5/8 will be set. After testing BOP before drilling out of 8-5/8", well will be drilled to approx. 200' above projected Abo Formation with cut brine. At that point, starch and oil will be added in order to drill to TD.

