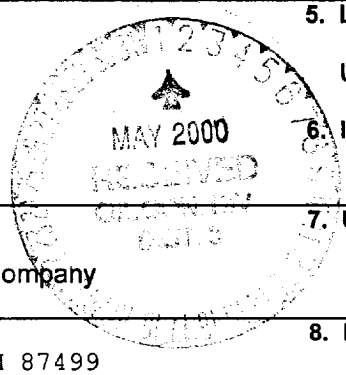
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK



1a. Type of Work
DRILL

1b. Type of Well
GAS

5. Lease Number
NM-03561
Unit Reporting Number

6. If Indian, All. or Tribe

2. Operator
BURLINGTON RESOURCES Oil & Gas Company

7. Unit Agreement Name

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499

(505) 326-9700

8. Farm or Lease Name
Grenier B

9. Well Number
5E

4. Location of Well
1910' FSL, 1180' FEL

Latitude 36° 45.1, Longitude 107° 55.1

10. Field, Pool, Wildcat
Otero Chacra/
Blanco MV/Basin DK

11. Sec., Twn, Rge, Mer. (NMPM)
I Sec. 6, T-29-N, R-10-W

API # 30-045- 30086

14. Distance in Miles from Nearest Town
6 miles from Aztec

12. County
San Juan

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
1180'

16. Acres in Lease

17. Acres Assigned to Well
Chacra - 148.90
Mesaverde ~~- 281.04 S/2~~
Dakota - 312.60 S/2

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
900'

19. Proposed Depth
7100'

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

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
5835' GR

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

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

24. Authorized by: Peggy Cole
Regulatory/Compliance Administrator

12-15-99
Date

PERMIT NO. _____ **APPROVAL DATE** _____

APPROVED BY /s/ Charlie Beecham **TITLE** _____ **DATE** APR 26 2000

Production Otero Chacra NSL

Archaeological Report to be submitted
Threatened and Endangered Species Report to be submitted
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
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 presentations as to any matter within its jurisdiction.

NMOCD

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
P.O. 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

¹API Number	²Pool Code	³Pool Name
30-045-30086	71599 / 82329 / 72319	Basin Dakota / Otero Chacra / Blanco Mesaverde

⁴Property Code	⁵Property Name	⁶Well Number
18532	GRENIER B	5E

⁷OGRID No.	⁸Operator Name	⁹Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	5835'

¹⁰Surface Location

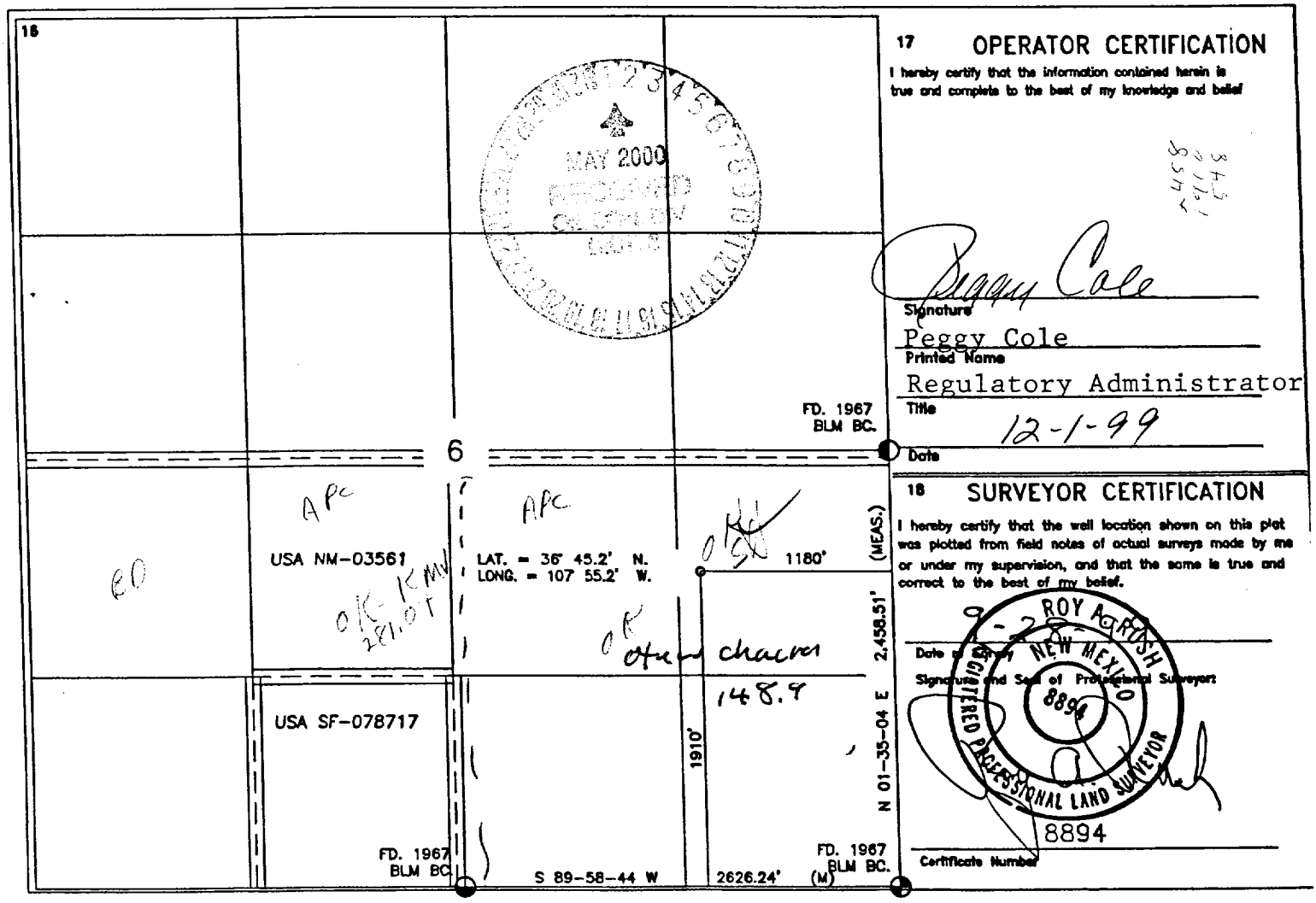
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	6	29-N	10-W		1910	SOUTH	1180	EAST	SAN JUAN

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

¹²Dedicated Acres	¹³Joint or Infill	¹⁴Consolidation Code	¹⁵Order No.
Cha-148.90, MV-S/~~291.04~~, DK-S/312.60			-old Survey (by Land Man)

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: Peggy Cole

Printed Name: Peggy Cole

Title: Regulatory Administrator

Date: 12-1-99

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: 9-28-99

Signature and Seal of Professional Surveyor:

ROY A. CROSH — NEW MEXICO — 8894 — REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number: 8894

OPERATIONS PLAN

Well Name: Grenier B #5E
Location: 1910'FSL, 1180'FEL, Sec 4, T-30-N, R-9-W
San Juan County, NM
Latitude 36° 45.1, Longitude 107° 55.2
Formation: Otero Chacra/Blanco Mesaverde/Basin Dakota
Elevation: 5835'GL

Formation Tops:	***Top***	***Bottom***	***Contents***
Surface	San Jose	945'	
Ojo Alamo	945'	1070'	aquifer
Kirtland	1070'	1876'	gas
Fruitland	1876'	2213'	
Pictured Cliffs	2213'	2297'	gas
Lewis	2297'	2885'	gas
Mesaverde	2885'	3205'	gas
Chacra	3205'	4155'	gas
Massive Cliff House	4155'	4235'	gas
Menefee	4235'	4536'	gas
Massive Point Lookout	4536'	4725'	gas
Mancos Shale	4725'	5748'	gas
Gallup	5748'	6486'	gas
Greenhorn	6486'	6541'	gas
Graneros	6541'	6658'	gas
Dakota	6658'	6828'	gas
Morrison	6828'		
TD	**7100'**		

Logging Program:
Open hole logs - GR, SP, AIT, ML, CNL-CDL, FMI, DPS, CMR
Cased hole logs - CBL-CCL-GR - TD to surface
Cores - Lewis @ 3700-3760', 3973-4033', 4075-4135'

The Morrison formation may be evaluated by coring and DST

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0- 320'	Spud	8.4-8.9	40-50	no control
320-7100'	LSND	8.4-9.0	40-60	8-12

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program:

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
12 1/4"	0' - 320'	8 5/8"	24.0#	WC-50
7 7/8"	0' - 7100'	5 1/2"	15.5#	J-55

Tubing Program:

0' - 4725'	1 1/2"	2.76#	J-55 EUE
0' - 6828'	1 1/2"	2.66#	J-55 EUE

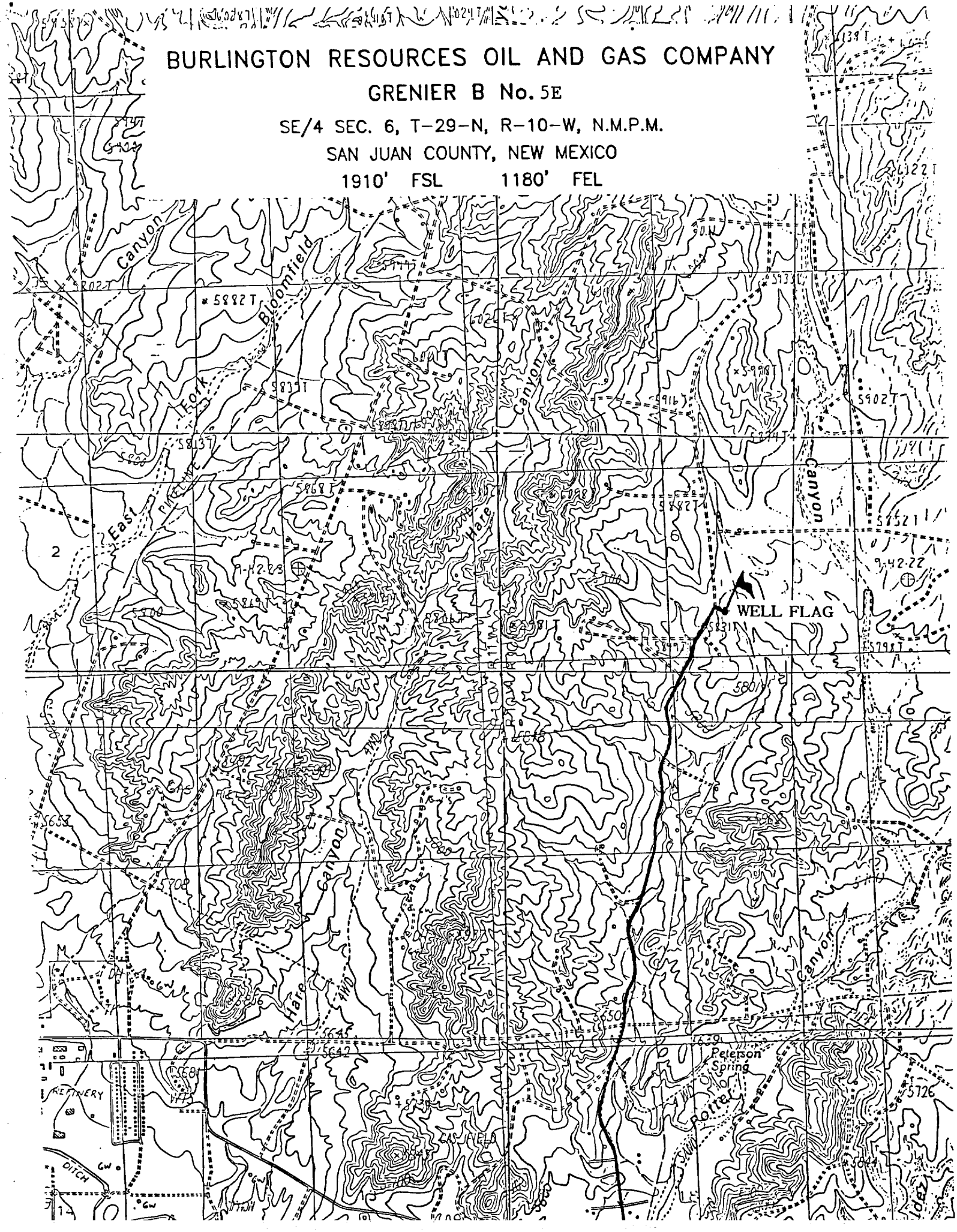
BOP Specifications, Wellhead and Tests:
Surface to TD -
11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

2" nominal, 2000 psi minimum choke manifold (Reference Figure #3).

BURLINGTON RESOURCES OIL AND GAS COMPANY

GRENIER B No. 5E

SE/4 SEC. 6, T-29-N, R-10-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

1910' FSL 1180' FEL