

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-045-27850

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
MAY 29 1990

1a. TYPE OF WORK
DRILL

1b. TYPE OF WELL
GAS

OIL CON. DIV.
DIST. 3

5. LEASE NUMBER
SF-077652

6. IF INDIAN, ALL. OR TRIBE NAME

2. OPERATOR
SOUTHLAND ROYALTY CO.

7. UNIT AGREEMENT NAME

3. ADDRESS & PHONE NO. OF OPERATOR
P O BOX 4289
FARMINGTON, NM 87499

8. FARM OR LEASE NAME
EAST

9. WELL NO.
103

4. LOCATION OF WELL
1340' FSL 1490' FWL

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL

11. SEC. T. R. M OR BLK.
K SEC. 14 T31N R12W NMPM

14. DISTANCE IN MILES FROM NEAREST TOWN
7 miles from Aztec

12. COUNTY
SAN JUAN

13. STATE
NM

15. DISTANCE FROM
PROPOSED LOCATION 1340'
TO NEAREST PROPERTY
OR LEASE LINE.

16. ACRES IN LEASE
2,514.580

17. ACRES ASSIGNED TO WELL
W/ 280.06

18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR. 300'
COMPL., OR APPLIED
FOR ON THIS LEASE.

19. PROPOSED DEPTH
2768'

20. ROTARY OR CABLE TOOLS
ROTARY

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.5
and appeal pursuant to 43 CFR 3165.4.

21. ELEVATIONS (DF, FT, GR, ETC.)
6296' GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

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

24. AUTHORIZED BY: [Signature]
REG. DRILLING ENGR.

4/27/90
DATE

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

DATE AS AMENDED

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.
APD was originally submitted 08-22-89 and approved 09-13-89.
APD was rescinded 12-13-89.

MAY 25 1990

Ken Townsend

FOR AREA MANAGER

NMCOO

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Abstract

the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion. The number of people aged 65 and over is expected to increase from 200 million to 400 million. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion.

[illegible]

2

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

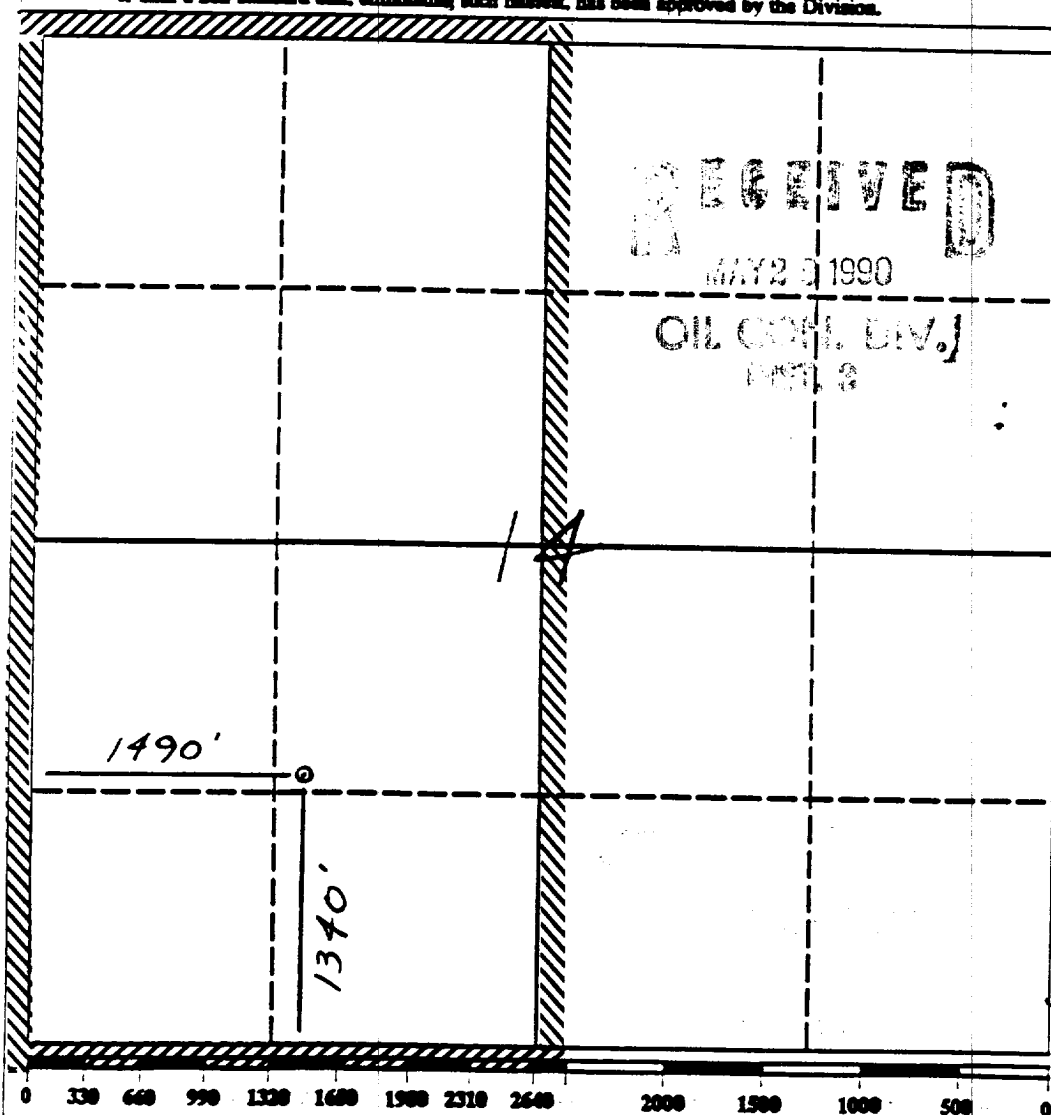
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Southland Royalty Company			Lease East (SF-077652)		Well No. 103
Unit Letter K	Section 14	Township 31 North	Range 12 West	County San Juan	
Actual Footage Location of Well: 1340 feet from the South line and 1490 feet from the West line					
Ground level Elev. 6296'		Producing Formation Fruitland Coal		Pool Basin	Dedicated Acreage: 280.06 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hectare marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Peggy Bradfield
Signature

Peggy Bradfield

Printed Name
Regulatory Affairs

Position
Southland Royalty Co

Company

Date
4-28-90

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 knowledge and belief.

Date Surveyed
NEALE C. EDWARDS
Professional Surveyor
857

Neale C. Edwards
Signature
Certificate No.
6857

Well Name: 103 EAST
 Sec. 14 T31N R12W
 BASIN FRUITLAND COAL

1340'FSL 1490'FWL
 SAN JUAN NEW MEXICO
 Elevation 6296'GL

Formation tops: Surface- ANIMAS
 Ojo Alamo- 1048
 Kirtland- 1090
 Fruitland- 2386
 Fruitland Coal Top- 2519
 Fruitland Coal Base- 2765
 Total Depth- 2768
 Pictured Cliffs- 2792

Logging Program: Mud logs from 2386 to total depth.

Mud Program:	Interval	Type	Weight	Visc.	Fl. Loss
	0 - 200	Spud	8.4 - 8.9	40-50	no control
	200 - 2768	Non-dispersed	8.4 - 9.5	30-60	no control

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	8 5/8"	24.0#	K-40
	7 7/8"	0 - 2768	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2768	2 3/8"	4.7#	J-55

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

5 1/2" production casing - float shoe on bottom.
 Three centralizers run every other joint above shoe and four centralizers run every other joint across Ojo Alamo.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembl

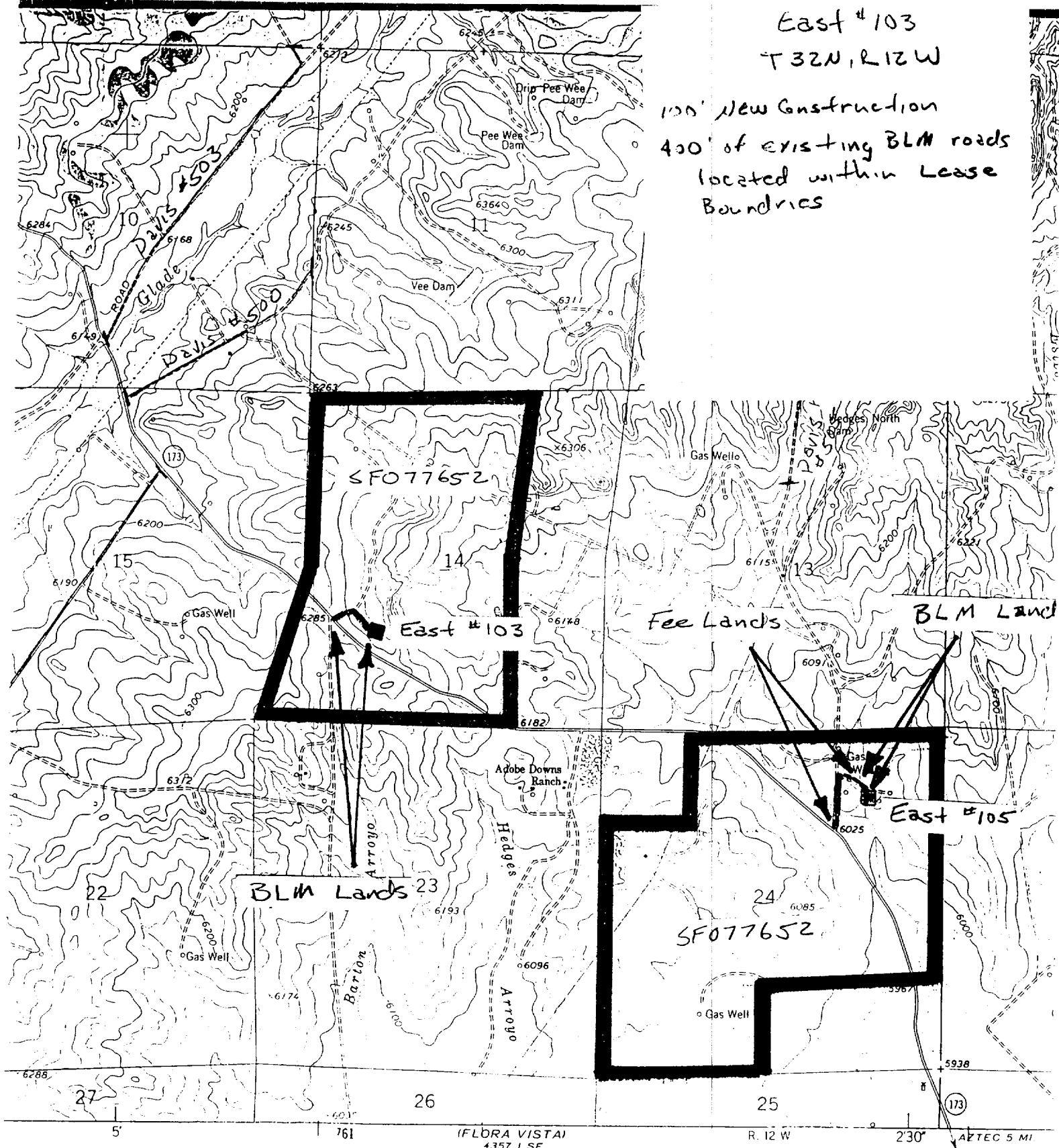
Cementing:

8 5/8" surface casing - cement with 211 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (248 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

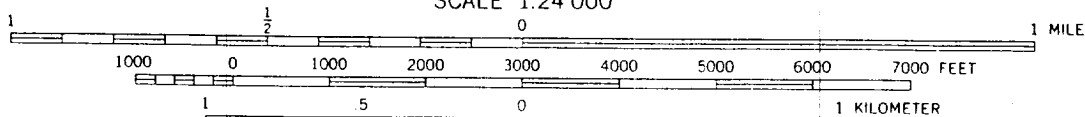
5 1/2" production casing - lead with 439 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu.ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 965 cu ft. of slurry, 100% excess to circulate to surface. WOC 12 hours.

East #103
T 32N, R 12W

100' New Construction
400' of existing BLM roads
located within Lease
Boundaries



SCALE 1:24 000



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAP #1