

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM MAIL ROOM

89 MAR 17 PM 1:26

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

- 1a. TYPE OF WORK
DRILL
- 1b. TYPE OF WELL
GAS SINGLE ZONE
2. OPERATOR
SOUTHLAND ROYALTY CO.
3. ADDRESS & PHONE NO. OF OPERATOR
P O BOX 4289
FARMINGTON, NM 87499
4. LOCATION OF WELL
1610'S 1825'W
5. LEASE NUMBER
NM-03877 SF 877056
6. IF INDIAN, ALL. OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
COZZENS COM
9. WELL NO.
600
10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL
11. SEC. T. R. M OR BLK.
K SEC. 19 T29N R11W NMPM
12. COUNTY
SAN JUAN
13. STATE
NM
14. DISTANCE IN MILES FROM NEAREST TOWN
1 MILE FROM BLOOMFIELD
15. DISTANCE FROM
PROPOSED LOCATION 1610'
TO NEAREST PROPERTY
OR LEASE LINE.
16. ACRES IN LEASE
713.69
17. ACRES ASSIGNED TO WELL
W/ 313.71
1013.05
18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR. 700'
COMPL., OR APPLIED
FOR ON THIS LEASE.
19. PROPOSED DEPTH
1649'
20. ROTARY OR CABLE TOOLS
ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.)
5560'GL
22. APPROX. DATE WORK WILL START

This action is taken in accordance with the
procedural rules of the Bureau of Land Management
and appeal procedures of the Department of the Interior.

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: *Robert Bradford*
REGULATORY AFFAIRS

RECEIVED

MAR 30 1989

OIL CON. DIV.

DIST. 3

5-16-89

DATE
APPROVED
AS AMENDED

MAR 28 1989

AREA MANAGER

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.

OK
(C)

OPERATIONS PLAN

DATE: MAR 14, 1989

Well Name: 600 COZZENS COM
 Sec. 19 T29N R11W
 BASIN FRUITLAND COAL

1610'S 1825'W
 SAN JUAN NEW MEXICO
 Elevation 5560'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 408
 Kirtland- 530
 Fruitland- 1373
 Fruitland Coal Top- 1500
 Fruitland Coal Base- 1648
 Intermediate TD- 1480
 Total Depth- 1649
 Pictured Cliffs- 1650

Logging Program: Mud logs from intermediate to total depth.

Mud Program: Low solid non-dispersed mud from surface to total depth.

Casing Program:	Hole Size	Depth Interval	Csg. Size	Weight	Grade
	12 1/4"	0 - 200	9 5/8"	32.3#	H-40
	8 3/4"	0 - 1480	7"	20.0#	K-55
	6 1/4"	1430 - 1649	5 1/2"	15.5#	K-55
Tubing Program:		0 - 1649	2 7/8"	6.5#	J-55

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe.

7" intermediate casing - guide shoe and self-fill insert float valve. Three centralizers run every other joint above shoe. Run insert float one joint above the guide shoe.

5 1/2" production liner - float shoe on bottom and a pre-drilled liner run to the 7" casing with a minimum 50' overlap. Liner hanger is a double slip grip type.

Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

Cementing:

9 5/8" surface casing - cement with 106 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (125 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 106 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. 322 cu ft. of slurry, 100% excess to cover the Ojo Alamo. Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.

5 1/2" liner - do not cement.

The Fruitland coal formation will be completed.

A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well. This gas is dedicated.

The W/2 of Section 19 is dedicated to this well.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-10
Revised 1

All distances must be from the outer boundaries of the Section.

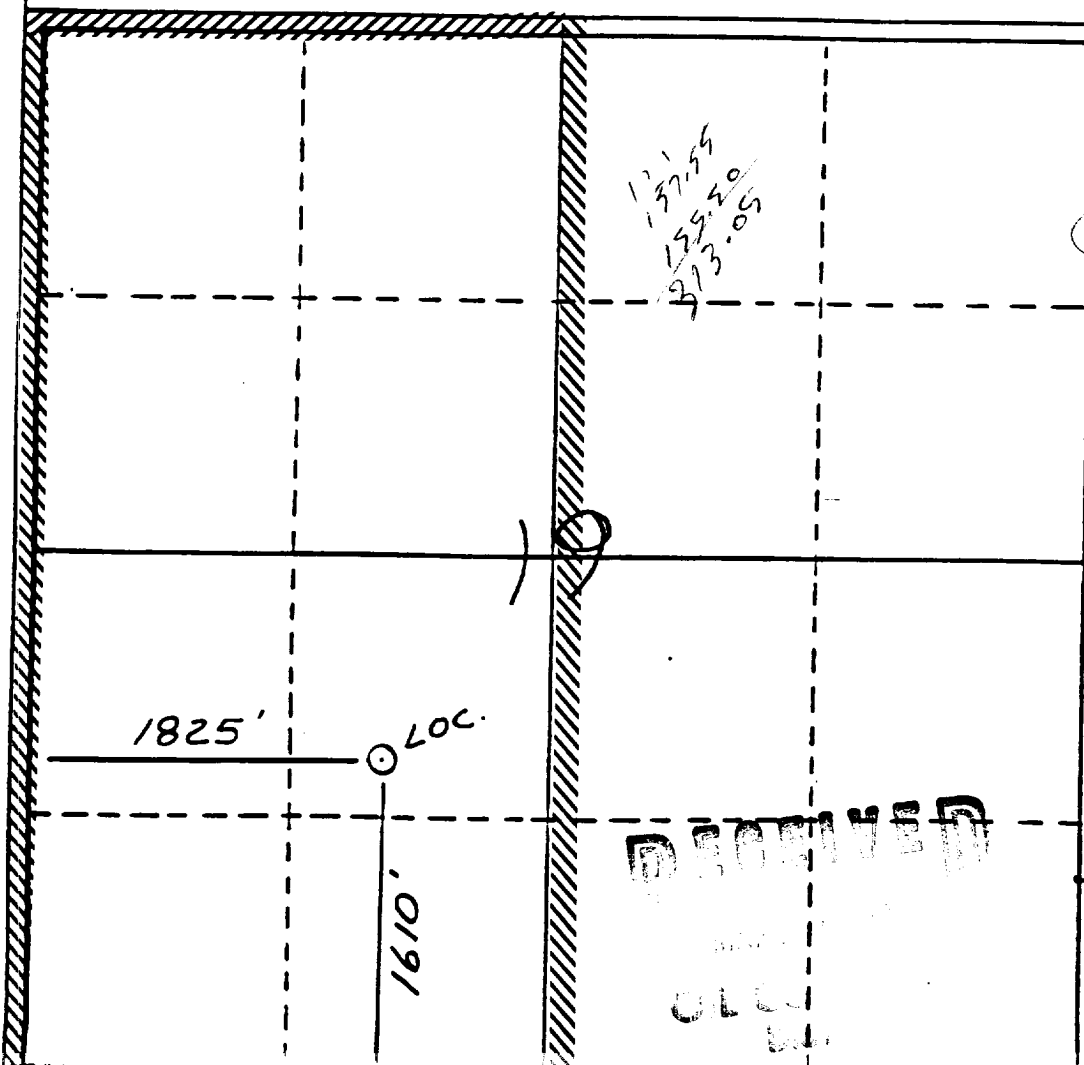
Operator Southland Royalty Company		Lease Cozzens ^{CPM} (NM-03877)		Well No. 600
Unit Letter K	Section 19	Township 29 North	Range 11 West	County San Juan
Actual Footage Location of Well: 1610 feet from the South line and 1825 feet from the West line				
Ground Level Elev. 5560'	Producing Formation Fruitland Coal	Pool Basin	Dedicated Acreage: 320 313.05	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to ownership interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests 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 interests, has been approved by the Division.



CERTIFICATION

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

Name
Regulatory Affairs

Position
Southland Royalty

Company
March 15, 1989

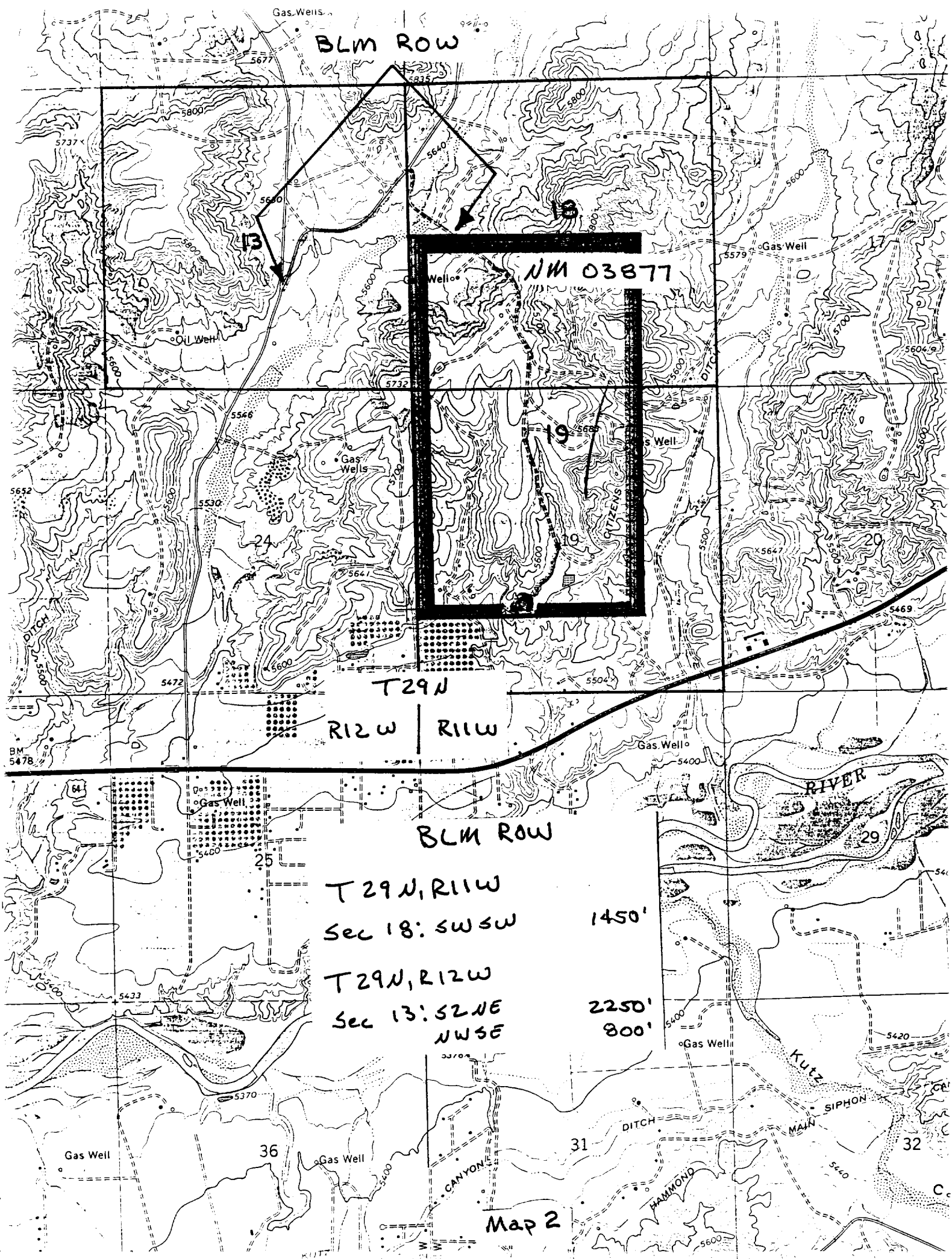
Date

I hereby certify that the location shown on this plat was plotted from notes of actual surveys made by me under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
10-11-88

Registered Professional Engineer and/or Land Surveyor

Neale C. Edwards



BLM ROW

NM 03877

T29N

R12W

R11W

BLM ROW

T29N, R11W
Sec 18: SW SW

1450'

T29N, R12W
Sec 13: S2 NE
NW SE

2250'
800'

Map 2