

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAIL ROOM

APPLICATION FOR PERMIT TO DRILL, ~~DEEPEN, OR PLUG~~ BACK

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
1000'S 1525'W

FARMING LEASE NUMBER
FARMINGTON NEW MEXICO
SF 876958

6. IF INDIAN, ALL. OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
HARE

9. WELL NO.
291

10. FIELD, POOL, OR WILDCAT
BASIN FRUITLAND COAL

11. SEC. T. R. M OR BLK.
N SEC. 3 T29N R10W NMPM

14. DISTANCE IN MILES FROM NEAREST TOWN
3 MILES FROM BLANCO

12. COUNTY 13. STATE
SAN JUAN NM

15. DISTANCE FROM
PROPOSED LOCATION 1000'
TO NEAREST PROPERTY
OR LEASE LINE.

16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL
2336.05 284.70

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

18. DISTANCE FROM
PROPOSED LOCATION
TO NEAREST WELL DR. 400'
COMPL., OR APPLIED
FOR ON THIS LEASE.

19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS
2245' ROTARY

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

21. ELEVATIONS (DF, FT, GR, ETC.)
5818'GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

24. AUTHORIZED BY: *[Signature]*
REGULATORY AFFAIRS

OIL CON. 177
DIST. 16-89
DATE

APPROVED
AS AMENDED

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

MAR 24 1989

[Signature]
AREA MANAGER

NMCC

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

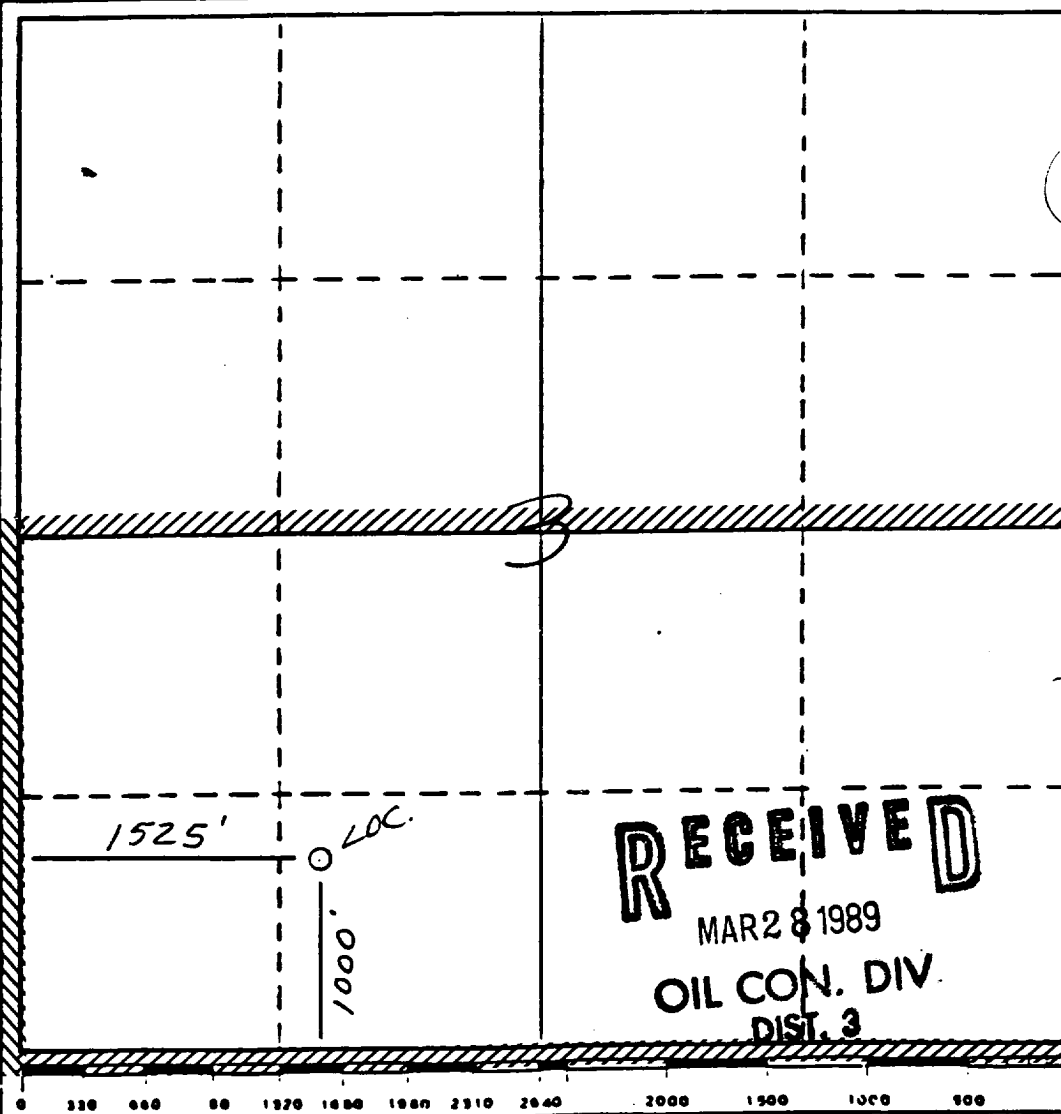
Operator Southland Royalty Company		Lease Hare SF-076958)		Well No. 291
Unit Letter N	Section 3	Township 29 North	Range 10 West	County San Juan
Actual Footage Location of Wells 1000 feet from the South line and 1525 feet from the West line				
Ground Level Elev. 5818'	Producing Formation Fruitland Coal	Pool Basin	Dedicated Acreage: 320 284.70	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 well 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
3-15-89

Date

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

Date Surveyed
11-1-88

Registered Professional Engineer and/or Land Surveyor

Neale C. Edwards

Certificate No.
6857

OPERATIONS PLAN

DATE: MAR 15, 1989

Well Name: 291 HARE
Sec. 3 T29N R10W
BASIN FRUITLAND COAL

1000'S 1525'W
SAN JUAN NEW MEXICO
Elevation 5818'GL

Formation tops: Surface- NACIMIENTO
Ojo Alamo- 1061
Kirtland- 1152
Fruitland- 1929
Fruitland Coal Top- 2096
Fruitland Coal Base- 2249
Intermediate TD- 2076
Total Depth- 2245
Pictured Cliffs- 2252

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 - 2076	7"	20.0#	K-55
	6 1/4"	2026 - 2245	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2245	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 97 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. 305 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 S/2 of Section 3 is dedicated to this well.

RECEIVED
MAR 23 1989
OIL CON. DIV.
DIST.

BLM ROW

Applied
For ROW

State
Lands

SFO 76958

BLM ROW HARE H201

T29N, R10W

Section 4: NESE 300'
SE NE 1550'
W2 NE 1900'

T30N, R11W

Section 33: W2 SE 2700'
SW NE 1600'
SE NE 400'
NE SE 1400'

34: W2 SW 1900'
SE SW 200'

Fee
Lands

MAP 2