

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

30-045-27254

RECEIVED  
BLM MAIL ROOM

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1:33

- 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  
1185'N 1560'E
5. LEASE NUMBER  
SF-076958
6. IF INDIAN, ALL. OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME  
HARE
9. WELL NO.  
292
10. FIELD, POOL, OR WILDCAT  
BASIN FRUITLAND COAL
11. SEC. T. R. M OR BLK.  
B SEC. 10 T29N R10W NMPM
12. COUNTY  
SAN JUAN
13. STATE  
NM
14. DISTANCE IN MILES FROM NEAREST TOWN  
3 MILES FROM BLANCO
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE.  
1185'
16. ACRES IN LEASE  
2336.05
17. ACRES ASSIGNED TO WELL  
318.74
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE.  
700'
19. PROPOSED DEPTH  
2275'
20. ROTARY OR CABLE TOOLS  
ROTARY
21. ELEVATIONS (DF, FT, GR, ETC.)  
5853'GL
22. APPROX. DATE WORK WILL START

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

This operation is subject to technical and  
regulatory review pursuant to 43 CFR 3165.2  
and 43 CFR 3165.4

23. PROPOSED CASING AND CEMENTING PROGRAM

\*SEE OPERATIONS PLAN

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

*[Stamp]*  
3-16-89  
DATE

APPROVED  
AS AMENDED

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

*[Handwritten initials]*

NMOCC

MAR 22 1989  
*[Signature]*  
AREA MANAGER

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

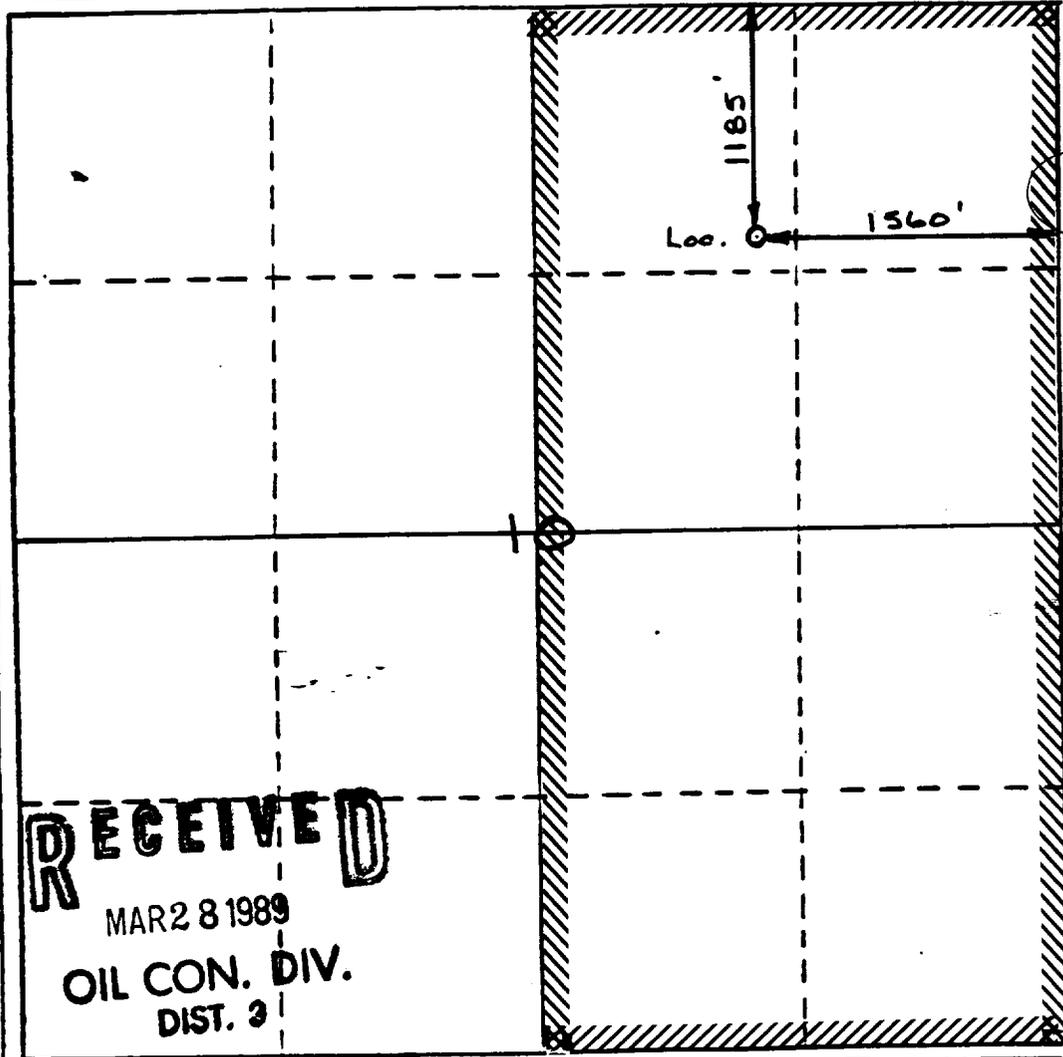
Operator Southland Royalty Co.		Lease Hare (SF-076958)		Well No. 292
Unit Letter B	Section 10	Township 29 North	Range 10 west	County San Juan
Actual Footage Location of Well 1185 feet from the North line and 1560 feet from the East line				
Ground Level Elev. 5853'	Producing Formation Fruitland Coal	Pool Basin	Dedicated Acreage: 318.74 Acres	

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 working 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.

*Raymond...*  
Name

Regulatory Affairs

Position

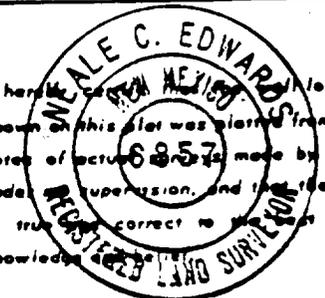
Southland Royalty Co.

Company

3-15-89

Date

I hereby certify that the 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.



11/19/83

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Neale C. Edwards

Certificate No.

6857

**RECEIVED**  
MAR 28 1989  
OIL CON. DIV.  
DIST. 3



OPERATIONS PLAN

DATE: MAR 15, 1989

Well Name: 292 HARE 1185'N 1560'E  
 Sec. 10 T29N R10W SAN JUAN NEW MEXICO  
 BASIN FRUITLAND COAL Elevation 5853'GL

Formation tops: Surface- NACIMIENTO  
 Ojo Alamo- 1087  
 Kirtland- 1202  
 Fruitland- 1914  
 Fruitland Coal Top- 2140  
 Fruitland Coal Base- 2273  
 Intermediate TD- 2120  
 Total Depth- 2275  
 Pictured Cliffs- 2292

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 - 2120	7"	20.0#	K-55
	6 1/4"	2070 - 2275	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2275	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 100 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. 311 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 E/2 of Section 10 is dedicated to this well.

**RECEIVED**  
 MAR 23 1989  
 OIL COMPANY  
 DIST. 9

29-10



292

HARE 292

All road on  
lease, fee, state  
or previously applied  
for road (Kelly 2005)

Slane 16

Little Slane Canyon 6

Little Slane 4

Wright 15

Wright Canyon 10

14

3

2

11

13

Blanco

3751