

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM MAIL ROOM

50-045-27254

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

1a. TYPE OF WORK DRILL	5. LEASE NUMBER SF-076958
1b. TYPE OF WELL GAS SINGLE ZONE	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 HARE
4. LOCATION OF WELL 1185'N 1560'E	9. WELL NO. 292
14. DISTANCE IN MILES FROM NEAREST TOWN 3 MILES FROM BLANCO	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
	11. SEC. T. R. M OR BLK. B SEC. 10 T29N R10W NMPM
15. DISTANCE FROM PROPOSED LOCATION 1185' TO NEAREST PROPERTY OR LEASE LINE.	12. COUNTY SAN JUAN
16. ACRES IN LEASE 2386.05	13. STATE NM
17. ACRES ASSIGNED TO WELL 318.74	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. 700' COMPL., OR APPLIED FOR ON THIS LEASE.	20. ROTARY OR CABLE TOOLS ROTARY
19. PROPOSED DEPTH 2275'	
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 application is subject to technical and
environmental review pursuant to 43 CFR 3160.3
and 43 CFR 3160.4

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

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

[Signature]
3-16-89
DATE

APPROVED
AS AMENDED

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

[Signature]

NMOCC

MAR 22 1989
[Signature]
AREA MANAGER

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

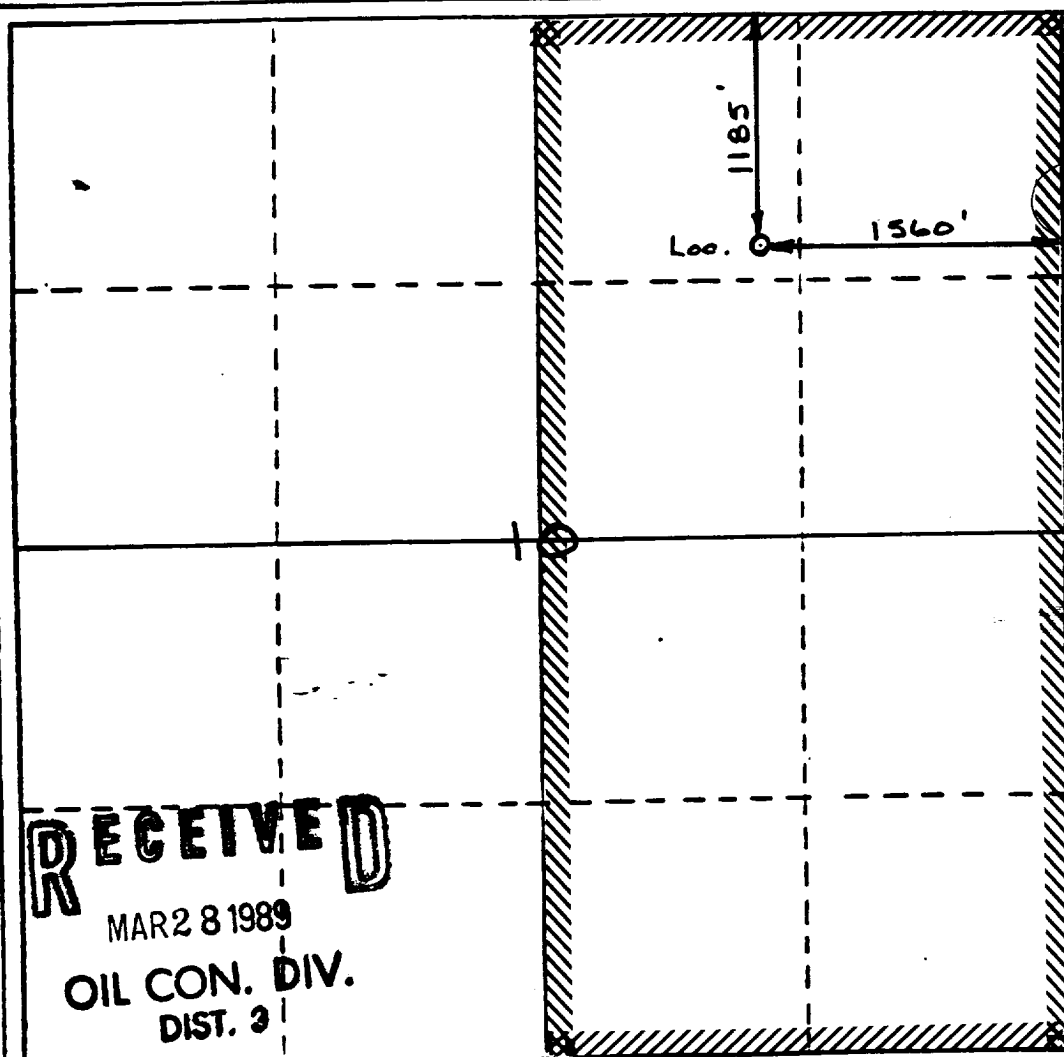
Operator Southland Royalty Co.		Lease Hare (SF-076953)		Well No. 292
Unit Letter B	Section 10	Township 29 North	Range 10 west	County San Juan
Actual Footage Location of Wells 1185 feet from the North line and 1560 feet from the East line				
Ground Level Elev. 5853'	Producing Formation Fruitland Coal		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.

Name
Regulatory Affairs
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

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900 0

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:

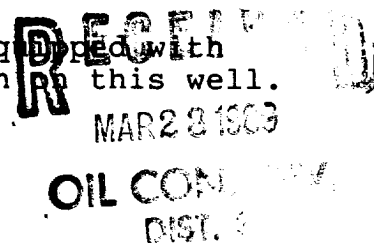
9 5/8" surface casing - cement with 106 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (125 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

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.



29-10



2910

ARE 292

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