

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-1095-2-10-15
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MAR 20 AM 10:32

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL	5. LEASE NUMBER NM-01772A
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 REID A COM
4. LOCATION OF WELL 845'N 895'E	9. WELL NO. 290
14. DISTANCE IN MILES FROM NEAREST TOWN 3 MILES FROM BLANCO	10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 845'	11. SEC. T. R. M OR BLK. A SEC. 13 T29N R10W NMPM
16. ACRES IN LEASE 2337.48	12. COUNTY SAN JUAN
17. ACRES ASSIGNED TO WELL 313.54	13. STATE NM
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE. 300'	19. PROPOSED DEPTH 2235'
20. ROTARY OR CABLE TOOLS ROTARY	21. APPROX. DATE WORK WILL START
21. ELEVATIONS (DF, FT, GR, ETC.) 5813'GL	22. APPROX. DATE WORK WILL START

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

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

23. PROPOSED CASING AND CEMENTING PROGRAM

*SEE OPERATIONS PLAN

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

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MAR 28 1989

OIL CON. DIV

3-DIST. 29

APPROVED
AS AMENDED

MAR 24 1989

AREA MANAGER

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

Hold c-109 for Communitization

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

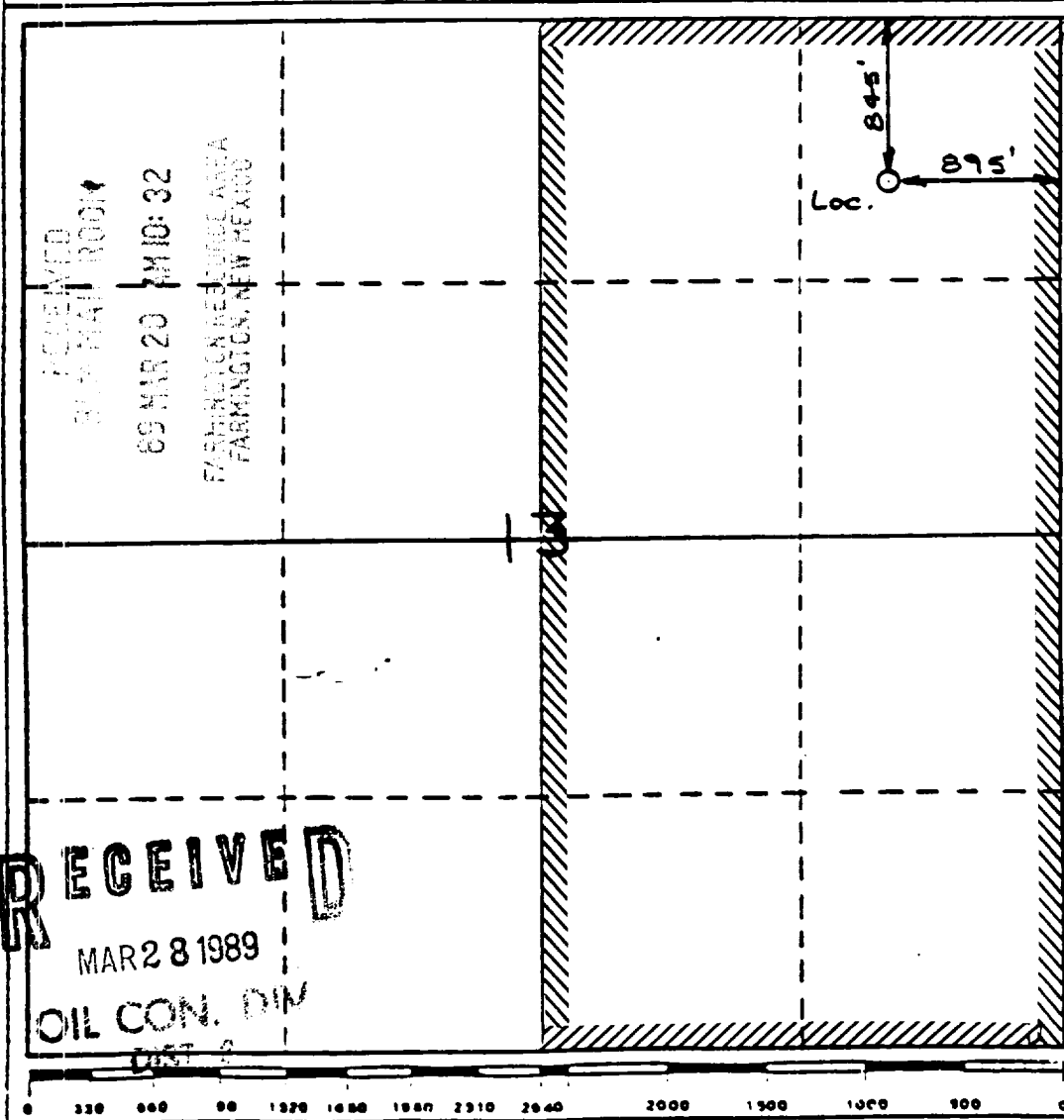
Operator Southland Royalty Co.		Lease Reid A Com (NM-01772A)		Well No. 290
Unit Letter A	Section 13	Township 29 North	Range 10 west	County San Juan
Actual Footage Location of Well 845 feet from the North line and 895 feet from the East line				
Ground Level Elev. 5813'	Producing Formation Fruitland Coal	Pool Basin	Dedicated Acreage: 313.54	

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 work 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 Communitization agreement being prepared

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.

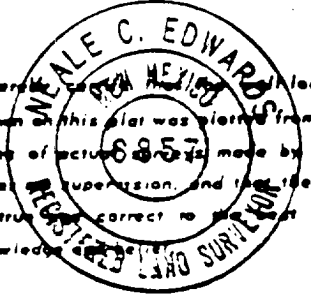


CERTIFICATION

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

Neale C. Edwards
Name
Regulatory Affairs
Position
Southland Royalty Co.
Company
Date 3-16-89

I hereby certify that the plat 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.



11/19/88

Date Surveyed
Neale C. Edwards
Registered Professional Engineer
and/or Land Surveyor

Neale C. Edwards

Certificate No. 6857

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MAR 28 1989
OIL CON. DIV

OPERATIONS PLAN

DATE: MAR 14, 1989

Well Name: 290 REID A COM
 Sec. 13 T29N R10W
 BASIN FRUITLAND COAL

845'N 895'E
 SAN JUAN NEW MEXICO
 Elevation 5813'GL

Formation tops: Surface- NACIMIENTO
 Ojo Alamo- 1134
 Kirtland- 1202
 Fruitland- 1960
 Fruitland Coal Top- 2098
 Fruitland Coal Base- 2233
 Intermediate TD- 2080
 Total Depth- 2235
 Pictured Cliffs- 2249

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 - 2080	7"	20.0#	K-55
	6 1/4"	2030 - 2235	5 1/2"	15.5#	K-55
Tubing Program:		0 - 2235	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 86 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. 284 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 13 is dedicated to this well.

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 MAR 21 1989

