

30-045-27648
RECEIVED
MAR 10 1990

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

| | |
|--|--|
| 1a. TYPE OF WORK DRILL | 5. LEASE NUMBER SF-079037 |
| 1b. TYPE OF WELL GAS | 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 HALE |
| 4. LOCATION OF WELL 815'S 1180'W | 9. WELL NO. 350 |
| 14. DISTANCE IN MILES FROM NEAREST TOWN 5 MILES NE OF ABE'S STORE | 10. FIELD, POOL, OR WILDCAT BASIN FRUITLAND COAL |
| | 11. SEC. T. R. M OR BLK. M SEC. 27 T31N R08W NMPM |
| | 12. COUNTY SAN JUAN |
| | 13. STATE NM |
| 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE. 815' | 16. ACRES IN LEASE 1280 |
| | 17. ACRES ASSIGNED TO WELL W/ 320.00 |
| 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DR. COMPL., OR APPLIED FOR ON THIS LEASE. 200' | 19. PROPOSED DEPTH 3205' |
| | 20. ROTARY OR CABLE TOOLS ROTARY |
| 21. ELEVATIONS (DF, FT, GR, ETC.) 6326'GL | 22. APPROX. DATE WORK WILL START |
| 23. PROPOSED CASING AND CEMENTING PROGRAM | |

*SEE OPERATIONS PLAN

NOTE: an APD was filed on 4-14-88, approved 5-16-88, and rescinded 1-5-90.
Technical report No. 1281 dated 3-30-88 was issued for this wellsite.

24. AUTHORIZED BY: St. Calhoun
REG. DRILLING ENGR.

2/15/90
DATE

PERMIT NO.

RECEIVED

APPROVAL DATE

APPROVED
AS AMENDED

APPROVED BY MAR 16 1990

TITLE

DATE

OIL CON. DIV.]

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

MAR 13 1990
AREA MANAGER

NMOOD

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

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

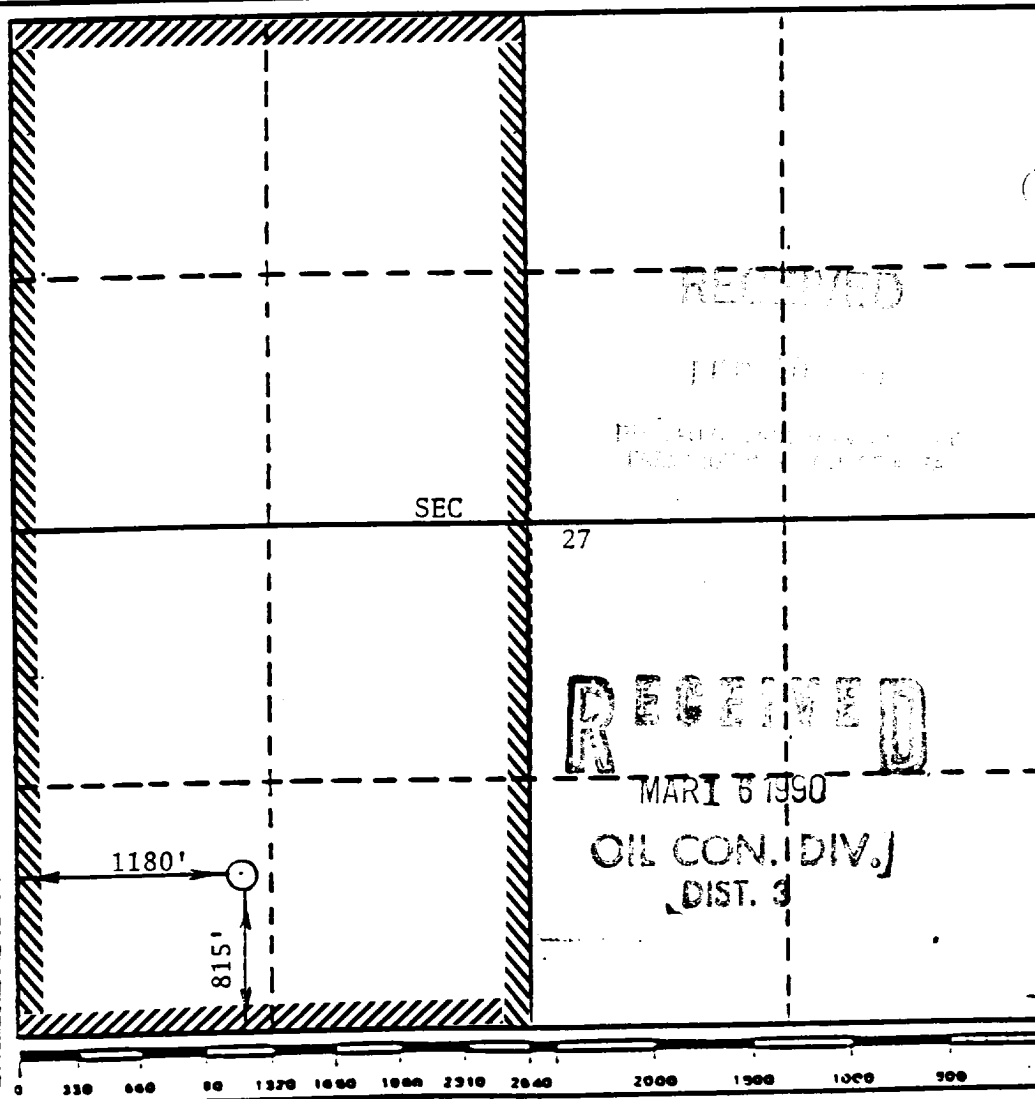
| | | | | | |
|---|--|-------------------------|-----------------------------------|---------------------------------------|------------------------|
| Operator SOUTHLAND ROYALTY CO. | | | Lessee HALE (SF-079037) | | Well No. 350 |
| Unit Letter M | Section 27 | Township 31-N | Range 8-W | County SAN JUAN | |
| Actual Footage Location of Well: 815 feet from the SOUTH line and 1180 feet from the WEST line | | | | | |
| Ground Level Elev. 6326 | Producing Formation Fruitland Coal | | Pool Basin | Dedicated Acreage 320 Acres | |

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 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
Position
Southland Royalty
Company
2-14-90
Date

I hereby certify that the well location shown on this plat was obtained 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.

ISAAC L. WEAVER
Date Surveyed
ISAAC L. WEAVER
Registered Professional Engineer and/or Land Surveyor

Certificate No.
8966

Well Name: 350 HALE
 Sec. 27 T31N R08W
 BASIN FRUITLAND COAL

815'S 1180'W
 SAN JUAN NEW MEXICO
 Elevation 6326'GL

Formation tops: Surface- SAN JOSE
 Ojo Alamo- 2040
 Kirtland- 2150
 Fruitland- 2895
 Fruitland Coal Top- 3040
 Fruitland Coal Base- 3191
 Intermediate TD- 3015
 Total Depth- 3205
 Pictured Cliffs- 3215

Logging Program: Mud logs from intermediate to total depth.

| Mud Program: | Interval | Type | Weight | Visc. | Fl. Loss |
|--------------|-------------|-----------------|-----------|-------|-----------|
| | 0 - 200 | Spud | 8.4 - 8.9 | 40-50 | no contro |
| | 200 - 3015 | Non-dispersed | 8.4 - 9.1 | 30-60 | no contro |
| | 3015 - 3205 | Formation Water | 8.4 | | no contro |

| 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 - 3015 | 7" | 20.0# | K-55 |
| | 6 1/4" | 2965 - 3205 | 5 1/2" | 15.5# | K-55 |
| Tubing Program: | | 0 - 3205 | 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 casing - 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 160 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (189 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 437 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. 962 cu ft. of slurry, 110% excess to circulate to surface. Run temperature survey at 8 hours. WOC 12 hours.

5 1/2" liner - do not cement.

Hale #350
815' FSL, 1180' FWL
Sec. 27, T31N, R8W
San Juan County, NM

100' New Construction
Map #1

