

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Southland Royalty Company

## 3. ADDRESS OF OPERATOR

1100 Wall Towers West

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1980' FSL <sup>2030'</sup> FWL Sec 21

At proposed prod. zone

same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

14 miles Northeast of Carlsbad

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

660'

## 16. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

N.A.

## 16. NO. OF ACRES IN LEASE

320

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

N.A.

## 19. PROPOSED DEPTH

10,800

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3466.9' Gr.

## 22. APPROX. DATE WORK WILL START\*

September 15, 1980

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	11 3/4"	42#	200'	300 SXS. CIRCULATE
11"	8 5/8"	24#	2000'	1000 SXS CIRCULATE
7 7/8"	4 1/2"	11.5#	10,800'	800SXS.

Propose to set 11 3/4" csg. @ 200', circ. cmt. Set 8 5/8" csg @ 2000' circ. cmt. Drill to TD of 10,800 to test Morrow & intermediate horizons. If commercial, will run 4 1/2' csg. to TD. Cmt. w/sufficient cmt. to bring cmt. back above all productive zones or to approx. 8500' if Morrow only productive. If intermediate horizons indicate production will run DV tool @ 9600' + and use additional cmt. volumes to obtain better cmt. over intermediate zone. Will perf & stimulate Morrow for production. Acid treatment to be determined on sand interval present, will use approx. 200 gals/ft. MUD PROGRAM: 0-200' spud mud; 200-2000' brine wtr. for lost circ & seepage; 2000-7500' fresh wtr. 7500-9000' cut brine wtr. 9.5#/gal; 9000-TD Flosal, Drispac, starch & gel bring wt. to 10.0#/gal. vis 40cc wl 6cc through the Morrow. No abnormal pressures anticipated w/BHP at TD expected to be 4000 psi. BOP PROGRAM: BOP to be installed on 11 3/4" double 10" Ser 900. BOP installed on 8 5/8" double 10" Ser 900 plus 10" Ser 900 Hydril plus drilling head. Yellow Jacket, Inc. to test 8 5/8" installation. BOP to be tested by Rig daily. GAS IS NOT DEDICATED.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED Don R CrayTITLE District Operation EngineerDATE 8-25-80

(This space for Federal or State office use)

## PERMIT NO.

## APPROVAL DATE

APPROVED BY (Orig. Sgd.) PETER W. CHESTER

TITLE

ACTING DISTRICT ENGINEER

DATE

NOV 26 1980

CONDITIONS OF APPROVAL, IF ANY:

N.M.O.O.D. COPY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NM04510
2. NAME OF OPERATOR Southland Royalty Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1100 Wall Towers West, Midland, Texas 79701		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FSL <sup>2030'</sup> FWL Sec 21, T-19-S, R-27-E		8. FARM OR LEASE NAME Pecos River Federal "21" Comm.
14. PERMIT NO.		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3466' Gr.		10. FIELD AND POOL, OR WILDCAT Undesignated (Morrow)
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 21, T-19-S, R-27-E
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> ABANDON* <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/>		SUBSEQUENT REPORT OF: WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> (Other) <input type="checkbox"/> REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/> (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*		

At Request of Bureau of Land Management, we have moved the staked location 50'  
to the east, making the location 2030' FWL & 1980' FSL of Sec 21.

See Attached Plat.

18. I hereby certify that the foregoing is true and correct

SIGNED Don R Craig

TITLE District Operation Engineer DATE 9-16-80

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

**N MEXICO OIL CONSERVATION COMMISS**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
 Supersedes C-128  
 Effective 1-1-65

All distances must be from the outer boundaries of the Section

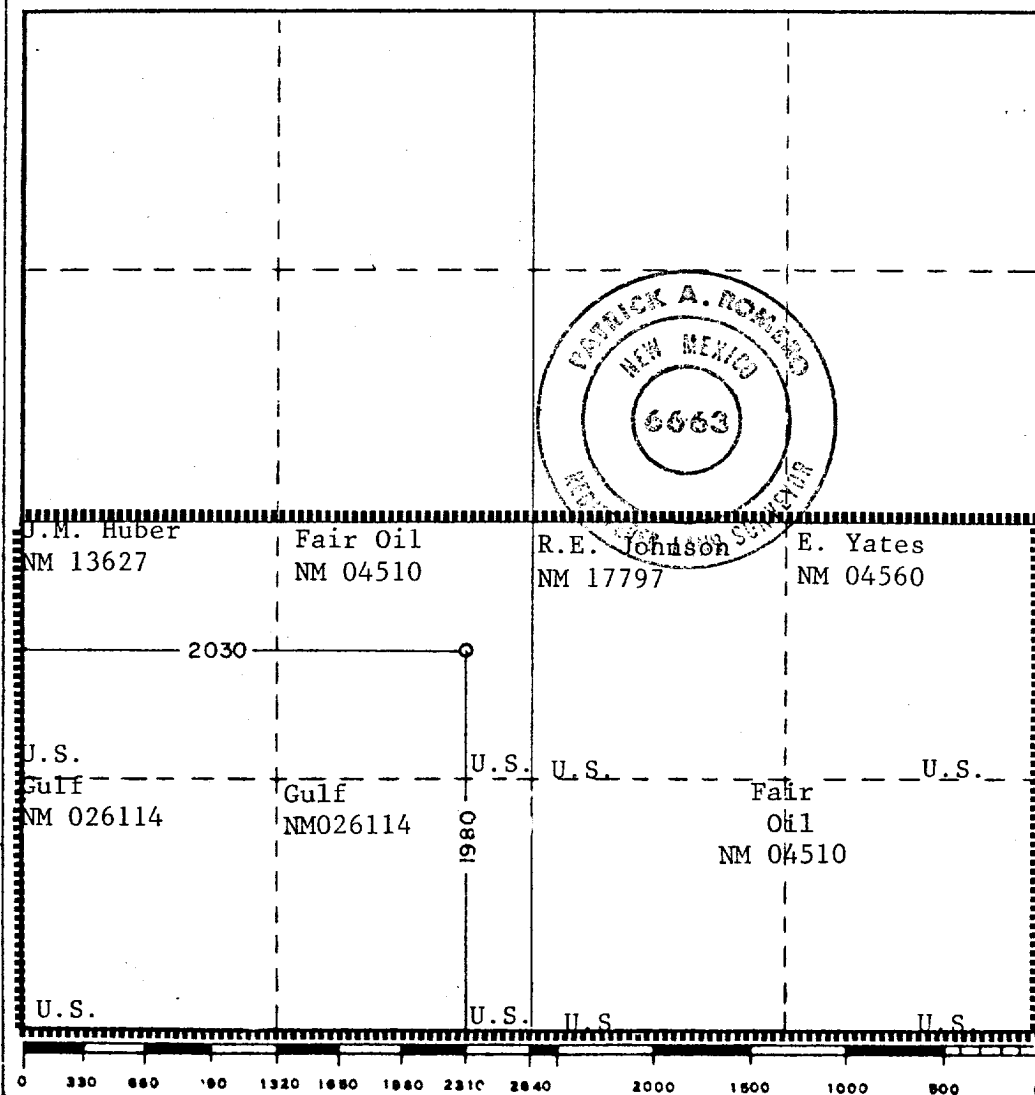
Operator <b>Southland Royalty Co.</b>			Lease <b>Pecos River Fed. #21</b>		Well No. <b>1</b>
Unit Letter <b>K</b>	Section <b>21</b>	Township <b>19 south</b>	Range <b>27 east</b>	County <b>Eddy</b>	
Actual Footage Location of Well: <b>1980</b> feet from the <b>south</b> line and <b>2030</b> feet from the <b>west</b> line					
Ground Level Elev. <b>3466.0</b>	Producing Formation <b>Morrow</b>	Pool <b>Undesignated</b>		Dedicated Acreage: <b>320</b> 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 Communitized

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 Commission.



**CERTIFICATION**

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

Name Don R. Craig  
 Position District Operation Engineer  
 Company Southland Royalty Company  
 Date 9-18-80

I hereby certify that the well 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.

Date Surveyed 9-15-80  
 Registered Professional Engineer and/or Land Surveyor  
Patrick A. Romero  
 Certificate No. **JOHN W. WEST 678**  
**PATRICK A. ROMERO 6663**  
**Ronald J. Eidson 3239**