Form 9-331 C (May 1963) C/SF	DEPARTMEN	M.M.O.O.I STATES راجا OF THE II GICAL SURVE	; NTERIOR	(Other instruction reverse si	ctions c	Form approved Budget Bureau 30 - 0/5 - 0 5. LEASE DESIGNATION A NM 17797	No. 42-R1425. 23 777	
	N FOR PERMIT	АСК	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME				
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b. TYPE OF WELL OIL G.	AS	/	SINGLE ZONE	X MULTIP ZONE		8. FARM OR LEASE, NAM	£7,	
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Southl	and Royalty Con	ipany V				9. WELL NO.		
3. ADDRESS OF OPERATOR 1100 W 4. LOCATION OF WELL (R At surface 1000	all <u>Towers West</u> eport location clearly and FNL & 1980' FEI		1 10. FIELD AND POOL, OB WILDCAT Undesignated (Morrow)					
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15. DISTANCE FROM PROP LOCATION TO NEARES' PROPERTY OR LEASE I (Also to nearest drig	I Line, ft.	660' S	16. NO. OF A	CRES IN LEASE		OF ACRES ASSIGNED HIS WELL 320	· · ·	
18. DISTANCE FROM PROF TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED, NC	one	19. PROPOSED 10,6		20. ROTA Rota	TARY OR CABLE TOOLS		
21. ELEVATIONS (Show wh				·	<u>}</u>	22. APPROX. DATE WORK WILL START*		
		3435.	2' GR			April 15, 1	981	
23.	]	PROPOSED CASIN	G AND CEM	ENTING PROGRA	AM		· · · · · · · · · · · · · · · · · · ·	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO		ETTING DEPTH		QUANTITY OF CEMEN	Г	
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<u>    11"                               </u>	8 5/8" 4 1/2"	<u>24#</u> 11.6#		<u>,000'</u> 0,500'	-1	75 sxs (circ) 50 sxs		
Drill to T run 4 1/2" tive zones indicate p obtain bet Acid treat MUD PROGRA 8000' Cut 10#, Vis 4 w/BHP at T with Yello DEDICATED.	S PROPOSED PROGRAM: If drill or deepen directions y.	b test Morro at w/sufficients 3500' if Mor arun DV too antermediate armined on se armined	by & interient volu row only ol @ + 96 e zone. W sand inte 2,000' br carch, Ge Atoka/Mor <u>BOP PRO</u> ing 8 5/8 been or plug bac data on subsc	rmediate ho me to bring is produc 00' and uso 7111 perf & rval present ine wtr, 2 1, Flosal row. No al GRAM: Tes " csg; tes k, give data on p prface locations an	prizons g cmt. tive. e addit stimul nt, wil ,000'-7 , Drisp bnormal t BOP e st at 8	s. If commercial back above all If intermediate ional cmt. volu- ate Morrow for 1 use approx. 500' fresh wt bac, 3% KCL, We pressures ant each new instal 8,000'. GAS IS	al, will produc- e horizons umes to production 200 gals/ft. r. 7500'- ight 9.5- icipated lation NOT	
SIGNED	eral or State office use)	TIT	Dist	rict Opera	tions E	Engineer 4/7/	81	
PERMIT NO APPROVAL DATE								
APPROVED BY			LE			DATE	•	
CONDITIONS OF APPROV								

\*See Instructions On Reverse Side

U.S. GEOLOGICAL SURVEY. ARTESIA, NEW MEXICO

APR - 8 1981

RECEIVED

# NE VEXICO OIL CONSERVATION COMMISS

PIN

Ronald J. Eidson

Form C-102 Supersedes C-128 WELL LOCATION AND ACREAGE DEDICATION PLAT Effective 1-1-65 All distances must be from the outer boundaries of the Section Operator Lease Well No. Southland Royalty Co. Pecos River, Federal 1 Section Township Unit Letter Range County G 21 19 South 27 East Eddy Actual Footage Location of Well: 1830 1980 North East feet from the line and feet from the line Ground Level Elev. Pool No, -h M Producing Formation Dedicated Acreage: Vars- Morrow Morrow <u>Undesignated</u> 320 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? If answer is "yes," type of consolidation <u>Communitized</u> X Yes - No 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 Estelle | Yates Fair Oil NM 04560 NM 04510 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. U.S. U.S. U.S. ron Position J.M. Huber Fair Oil E. Yates R.B. Johnston District Operations Engineer NM 13627 NM 04510 NM 17792 NM 9X7 PL Company Southland Royalty Company Date U.S. U.S. U.S. U.S. April 6, 1981 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 1988 April Registered Professional Findin PATRIC ROMERO

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860

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1980 2310 2640

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		N.M.O.C.D. CC	)P <b>Y</b>		
Form 9-231 (May 1963)	DEPARTMENT (	D STATES DF THE INTERIOR ICAL SURVEY	SUBMIT IN TRIPLICATE (Other instructions on r verse side)		reau No. 42-R1424.
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1. OIL GAS WELL WELL	X OTHER	<u></u>		7. UNIT AGREEMENT	NAME
2. NAME OF OPERATOR Southland Roy	alty Company	· · · · · · · · · · · · · · · · · · ·	MAY 1 1 1981	8. FARM OR LEASE N 2/A Pecos Rivera F	_
Southland Roy 3. Address of Operation			C. C. D.	9. WELL NO.	Charles Contracts
See also space 17 be At surface	Report location clearly and	in accordance with any State FEL		1 10. FIELD AND POOL, North J. C/I Undesignated 11. SEC., T., B., M., OR SUBVEY OR AB:	(Morrow)
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REPAIR WELL (Other)	CHANGE PLA	ANS	(Other) Moved loc	ation ts of multiple completion pletion Report and Log I	n on Well
		EL of Section 2 to comply with re		to 1830' FNL	& 1980' FEL
See attached	plat & surface us	se plan.			
			TOTAL ALLA	PR 2 2 1981	
18. I hereby certify that	APPROVED the foregoing is true and	L SILVART			
SIGNED	FOR	TITLDistric	t Operation Engin	eer date <u>4/2</u>	1/81
(This space for Fee APPROVED BY CONDITIONS <del>OF</del>	JAMES A. GILLHAM DISTRICT SUPERVISE	TITLE		DATE	

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## N MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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All distances must be from the outer boundari -1

		distances must be from t	he outer boundaries of	the Section.	•			
Coperator Southland	Royalty Co.	Lea	Pecos River Federal 21A Well No. 1					
Unit Letter Sec G		) South	<sup>Range</sup> 27 East	County				
Actual Footage Location of Well: 1980/830 test from the north line and 1980 feet from the east line								
Ground Level Elev. 3435.2	Producing Formation	P∞	1		Dedicated Acreage:			
	Morrow		Undesignated		320 Acres			
2. If more than a interest and ro	one lease is dedice yalty).	ated to the well, ou	tline each and ide		ereof (both as to working			
<ul> <li>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?</li> <li>X Yes No If answer is "yes," type of consolidation Communitized</li> </ul>								
If answer is " this form if nec	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.								
Estell	e Yates	IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ir ¦Oil	E	CERTIFICATION			
NM 045 		11 1	04510 1 1 1 1 1 1	tained here best of my	ertify that the information con- ein is true and complete to the knowledge and belief.			
J.M. Huber NM 13627	Fair Oil NM 04510	R.B. Johnsto NM 17797	i	Company	Derations Enginee			
u.s.	U.S.	пе		April 6	, 1981			
	WINNING	U.S.		Hamme E				
U.S.	Fair Oil NM 04510 LER & AND LER & AND LER & AND U.S	R.E. Johnsto NM 17797	NM 04560     	shown on ti notes of ou under my s	ertify that the well location his plat was plotted from field ctual surveys made by me or upervision, and that the some d correct to the best of my and belief.			
GULF	MEXIC	FAIR OIL NM 04510		Registered Dr	t 27-81 rtessional Engineer urrevor			
U.S.	U.S.	U.S.	U.S.	2 17 )	1 lant			
					JOHN 4 4857 876 PATRICK & PONERO 6603 HOLES V. 2 340 32 39			

### SOUTHLAND ROYALTY COMPANY Pecos River Federal "21-A" Com No. 1 Sec. 21, T-19-S, R-27-E, Eddy Co., New Mexico 1980' FNL & 1980' FEL NM 17797

To supplement USGS Form 9-331C "Application to Drill" the following additional information is submitted concerning questions on Page 5 of NTL-6"

- 1. See Form 9-331C.
- 2. See Form 9-331C.
- 3. The geological name of surface formation is: Guadalupian
- 4. See Form 9-331C.
- 5. See Form 9-331C.

6. The estimated tops of important geological markers are:

Grayburg	1300'	Atoka 9600'
San Andres	1850'	Morrow (NMOCD) 9970'
Bone Spring	2630'	Mississippian 10,375'
Wolfcamp	7445'	
Cisco	8220'	
Strawn	9070'	

7. The estimated depths at which anticipated water, oil, gas and mineral bearing strata are as follows:

San Andres	(Oil)	1850'
Wolfcamp	(Gas)	7745'
Cisco	(Gas)	8220'
Strawn	(Gas)	9070'
Atoka	(Gas)	9600'
Morrow	(Gas)	9970'

8. See Form 9-331C. All casing will be new.

9. See Form 9-331C for depths of strings. Cement volumes and additions as follows:

a. 11 3/4" casing: Cement w/425 sx. Class "C" cement with 2% calcium chloride. Circulate cement back to surface. A caliper log will be run

b. 8 5/8" casing: Cement w/400 sx. class "C" Lite cement w/5# salt/sx. and 5# Gilsonite/sx and 1/4# Flocele/sx. plus 375 sx Class "C" cement w/2%calcium chloride. Circulate cement back to surface. A caliper log will be run in conjunction with other logs prior to running casing to obtain exact hole volumes. it is estimated that the volumes used will circulate back to surface of ground.

C.4 1/2" casing: Cement w/ 850sx. Class "H" cement consisting of 850 sxs. Class "H" cement w/5# KCL/sx. plus 3/4% fluid loss additive. Will run caliper in conjunction w/open hole logs prior to setting 4 1/2" casing to determine exact cementing volumes. Top cement estimated to be at 7000'. Cementing volumes could vary depending on development of intermediate horizons. Could add 1/4# Celloflake if lost circ. or seepage suspected. 10. The pressure control diagram is attached to Form 9-331C. The following additional information is as follows:

11 3/4" casing installation: 10" Ser 900 3000 psi double hydraulic pipe and blind rams.

8 5/8" casing installation; 10" Ser 900 3000 psi double hydraulic pipe and blind rams plus 10" Ser 900 3000 psi Hydril plus 10" Ser 900 Rotating Head.

#### Testing Procedure:

11 3/4" csg. pressure to be 1000 psi for 30 min. before drilling below 11 3/4" csg. 8 5/8" csg. pressure to 1500 psi for 30 min. before drilling below 8 5/8" csg by Yellow Jacket, Inc. to test the 8 5/8" casing installation. Test BOP daily while drilling and on all trips.

See Form 9-331C.
 A. DST program - probable DST in Cisco after coring

b. Cores - 30' conventional core in Cisco at +8200'.

C. Mud Logging 250'-TD

d. Wireline logs
250'-2000'
2000'-TD Compensated Neutron/Formation Density/GR/Caliper/ Borehole
Volume Intergrator
250'-2000'
2000'-TD Dual Laterolog/GR/RXO

- No abnormal pressures anticipated with bottom hole pressures at TD expected to be 4000 . Bottom hole temperature 180° F. No Hydrogen Sulfide expected in this known drilling area. No crooked hole or abnormal deviation problems.
- 14. Anticipated starting date to spud-April 15, 1981 . Previous drilling in the area indicates 45 days from spud to setting 4 1/2" casing at TD.

#### SURFACE USE PLAN

#### SOUTHLAND ROYALTY COMPANY

## Pecos River Federal "21-A" Com No. 1 Sec. 21, T-19-S, R-27-E, Eddy Co. New Mexico 1830' FNL & 1980' FEL NM 17797

This plan is submitted with Application to Drill on above described well. The minerals are federal, and the surface is leased for grazing (See below for surface lessee). The purpose of this plan is to describe the location, proposed construction activities and operations plans, magnitude of necessary surface disturbance and procedures to be followed in rehabilitating the surface after completion of the operation so that complete appraisal can be made of the environmental effects associated with the operation.

#### 1. Existing Roads:

Exhibit "A" is a portion of a USGS Topographic map showing the location of the proposed well as staked.

Directions to the well are as follows: From the center of Carlsbad, go North on paved county road (North Connell St.) for 17 miles. Turn Southwest and go four miles. Turn west and go 1/4 mile on lease road and then on new road along fence for approximately 1/2 mile.

#### 2. Planned Access Road:

- a. One road will be built from the existing lease road to the proposed location. New road required will be12 feet wide and 2830 ' long. The center line of the proposed new road from the beginning to the well site has been staked and flagged with the stakes being visible from any one to the next.
- b. Surfacing Material: 6" of caliche, watered, compacted and graded.
- 3. Location of Existing Wells in Area:

See Exhibit "B"

#### 4. Location of Proposed Facilities:

Location of proposed well site and tank battery is shown on Exhibit "C". The battery will be located on proposed well pad, no additional surface disturbance will be necessary.

- 5. Water Supply:
- a. No available surface of sub-surface fresh water exists in the vicinity of the proposed well. Drilling water will be transported to the drill site from the nearest commercial source.

#### 6. Source of Construction Material:

Caliche for surfacing access road and pad will be obtained from existing pit located as shown on Exhibit "A" in NW/4 SW/4, Sec 22, T-19-S, R-27-E. The pit has been cleared by the agency for conservation archaeology. The Report clearing the pit will be submitted as soon as it is received.

#### 7. Handling Waste disposal:

- a. Drill cuttings disposed into drilling pits.
- b. Drill fluids allowed to evaporate in drill pits until pits dry.
- c. Produced water during testing drill pits.
- d. Produced oil during testing storage tank until sold.
- e. Current laws and regulations pertaining to disposal of human waste will be observed.
- f. Reserve pit will be plastic lined.
- g. Waste paper, garbage, junk disposed of into special trash pit at location and covered with minimum of 24 inches of dirt upon completion of well. All waste material will be contained to prevent scattering by wind.
- All trash and debris will be buried or removed from well site within 30 days after finish drilling and/or completion operations.

#### 9. Ancillary Facilities:

None

#### 10. Plans for Restoration of Surface:

- After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of trash and junk to leave well site in as aesthetically pleasing a condition as possible.
- b. Any unguarded pits containing fluids will be fenced until filled.
- c. After abandonment of well, surface restoration will be in accordance with the State of New Mexico Surface Requirements.
- 11. Topography and Soil:

See attached Eastern New Mexico University Report by Dr. Colleen Beck.

12. Land Use:

Grazing and hunting - Federal Land

Surface Lessee -

Raymond Neatherland P.O. Box 511 Artesia, new Mexico 13. Surface Ownership:

Bureau of Land Management

14. Operators Representative:

Field representatives (Responsible for compliance with approved surface use and operations plan):

Southland Royalty Company P.O. Box 65 Loco Hills, New Mexico Office: 505/677-2233

Mr. Wayne Grubbs, Drilling Foreman Loco Hills Home: 505/677-2295

Mr. Bill Chrane, Production Superintendent Midland, Texas office 915/682-8641 home 915/694-0730

15. <u>Certification</u>:

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route; that I am familiar with conditions which presently exist; That the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Southland Royalty Company and its contractors and sub-contractors in uniformity with this plan and the terms and conditions under which it is approved.

DATE: \_\_\_\_\_4-21-81

C.C. Parsons District Operations Engineer Southland Royalty Company



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1	al al ba at a series of		Eddy	County, New Mexi		



Form 9-1123 (Rev. Dec. 1957) (Submit in triplicate to appropriate Regional Oil and Gas or Mining Supervisor)

# DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE:	Artesia, N.M.
Serial No.:	NM-17797
	•

and hereby designates

NAME: Address:

Southland Royalty Company 1100 Wall Towers West Midland, Texas 79701

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

> SW/4 NE/4 Section 21, T19S, R27E, Eddy County, New Mexico

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

Johnston

P. O. Box 1824, Midland, Texas 79702 (Address)

U.S. GOVERNMENT PRINTING OFFICE : 1964-0-726-354

