	NM OIL (CONS. COMMISSION	ſ		
Form 9-331 C (May 1963)	Drawer		SUBMIT IN TH	IPLI	Form approved.
(VIAY 1965)	Artenip	ED ⁴ STATES	(Other instru- reverse s		Budget Bureau No. 42-R1425.
		OF THE INTE		,	30-005-61300
	GEOLO	GICAL SURVEY			5. LEASE DESIGNATION AND SEBIAL NO.
APPLICATIO	N FOR PERMIT	O DRILL, DEEP	EN. OR PLUG B		6. IF INDIAN, ALLOTTEE OF TRIBE NAME
1a. TYPE OF WORK					
b. TYPE OF WELL		DEEPEN	PLUG BA		7. UNIT AGREEMENT NAME DEC 2 3 1981
2. NAME OF OPERATOR	WELL X OTHER		INGLE MULTIP		8. FARM OR LEASE NAME O. C. D.
Southland Roy					Sand Ranch 35 ARTESIA, OFFICE 9. WELL NO.
3. ADDRESS OF OPERATOR		1			11
4. LOCATION OF WELL (H At surface	ers West, Midlan Report location clearly and	In accordance with any	1 State requirements.*)	المربوعية أو في المحا	10. FIELD AND POOL OR WILDCAT
660' FNL, 198	0' FEL, Sec. 35	, T-10-S, R-29-	Ele non to a	<u>کې</u> ۱۰۱	11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zo: Same	be		ARE SED TER	981 -	112-B
	AND DIRECTION FROM NEAR	SEST TOWN OR POST OFFIC			Sec. 35, T-10-S, R-29-E 12. COUNTY OR PARISH 13. STATE
33 miles	East of Roswell	, N.M.		lijgav⊄∙	Chaves N.M.
15. DISTANCE FROM PROP LOCATION TO NEARES	T	16. N	O. OF ACRES IN LEASE)F ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE (Also to nearest drl	g. unit line, if any) (560'	320		20
18. DISTANCE FROM PROD TO NEAREST WELL, I OR APPLIED FOR, ON TH	DRILLING, COMPLETED,		ROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS
21. ELEVATIONS (Show wh		N.A.	9810'	<u> R</u>	22. APPROX. DATE WORK WILL START*
<u>_3965.6' GR</u>					12-26-81
23.	P	ROPOSED CASING AN	D CEMENTING PROGRA	M	, 12 20 01
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
171/4"	11 3/4"	42#	350'	700	Sx. (Circ.)
11"	8 5/8"	24#	2650'	I	Sx. (Circ.)
7 7/8"	4 1/2"	11.6#	9810'		Sx. (TOC by Temp. Surv.)
Set surface c	sg @ 350' T/sali	. Circ cmt.	Drill 11" hole	w/brin	e wtr & set 8 5/8" csg @
					ons. If commercial run 4 1/2" ctive zones. Estimated T/cmt
	f & stimulate Mo			prospe	clive zones. Estimated i/cmt
MUD PROGRAM:	0-350' spud mud	l; 350-2650' br	ine wtr; 2650-6	000' c	ut brine wtr; 6000-7500' cut
brine wtr w/4	% oil, gel; 750()-8800' cut bri	ne wtr w/1-2% o	il, ge	1; 8800-TD cut brine, gel,
drispac, 1% o 4200 psi.	11 & 3% KCL. M	1 9.0-9.2, vis	34, FL 6cc thru	Morro	w. BHP @ TD expected to be
•	BOP to be insta	alled on $11 3/4$	" double 10" Se	r 900	. BOP to be installed on
8 5/8" double	10" Ser. 900 pl	lus 10" Ser. 90	0 Hydril plus d	rlghea	d Test BOP w/Yellow Jacket
Inc. after se	tting on 8 5/8".	. Test BOP @ 7	500'.	Ũ	
GAS NOT DEDIC	ATED.				I ID good
					Death HU ISI
					PPF 31-8
IN ABOVE SPACE DESCRIBI zone. If proposal is to	F PROPOSED PROGRAM : If p drill or decpen directional	roposal is to deepen or p ly, give pertinent data o	olug back, give data on pr	esent produ d measured	uctive zone and proposed new productive P-31-81 and true vertical depths. Give blowout
preventer program, if an 24.	y. /				
BIGNED	1 crown	TITLE DI	<u>strict</u> Operatio	ns Eng	ineer _{DATE} 12-10-81
(This space for Fede	eral or State office use)				
PEBMIT NO.	APPROVED		APPROVAL DATE		
					·
CONDITIONS OF APPROV	DEC 2 1 1981	TITLE			DATE
	UEU 2 1 1981				
	JAMES A. GILLHAM DISTRICT SUPERVISOR	*See Instructions	On Reverse Side		
I	DISTRICT SUPERVISOR				

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

:

Form C+102 Superseder C+128 Effective 1-1-65

			rom the outer boundaries of the	Section		
	and Royalty (Company	Sand Ranch		Well No. 21	
Vnit Letter B	Section 35	Township 10 South	Ronge 29 East	Chaves		
Actual Footage Loc 660		orth line and	1980 (m) /	east		
Ground Level Elev. 3965.6	Producing For	mation	Pool Undesignated		tine conted Acreane: 320 Acres	
 If more the interest and If more the dated by constraints X Yes If answer 	an one lease is ad royalty). an one lease of d ommunitization, a DNO If a is "no," list the	dedicated to the well ifferent ownership is o unitization, force-pooli nswer is ''yes,'' type o	f consolidation <u>Commu</u>	fy the ownership there we the interests of all nitization	at below. of (both as to working owners been consoli-	
this form i No allowat	If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)					
(Dep 168		any South lan 660	$\frac{16804}{1980'}$	I hereby certify tained herein i best of my know Name District (Position Southland Company 12-10-81 Date	RTIFICATION r that the information con- s true and complete to the wledge and belief. <u>A</u> <u>A</u> <u></u>	
			ENGINEER & IR	I hernby certi shawn on this p notes of actua under my super	stonal Engineer	

SOUTHLAND ROYALTY COMPANY SAND RANCH #2 660' FNL, 1980' FEL Sec. 35, T-10-S, R-29-E Chaves County, New Mexico 16804

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: Whitehorse
- 4. See Form 9-331C.
- 5. See Form 9-331C.

6. The estimated tops of important geological markers are:

Wolfcamp	6990 '
Cisco	7875'
Canyon	8270'
Strawn	8630'
Atoka	8975'
Morrow	9200'
Mississippian	9350 '
) ¹ } ¹	Cisco Canyon Strawn Atoka Morrow

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

San Andres	2540'
Wolfcamp	6990'
Atoka	8975'
Morrow	9200'

- 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" csg: Cement w/700 sxs. C1 "C" cement w/2% CaCl. Circ to surface.
 - b. 8 5/8" csg: Cement w/1000 sxs. lite wt cement & 600 sxs. Cl "H". Circ cmt to surface. Caliper logs to be run in conjunction w/GR/CNL/FDC log to determine open hole volume for computation of actual cement volume to circ to surface.
 - c. 4 1/2" csg: Cement w/350 sxs. lite wt cement & 350 sxs Cl "H" 50-50 Pozmix A. Run caliper log in conjunction w/open hole logs to determine exact hole volume. Top of cement anticipated to be at 8000'. Cement volume could vary w/development of intermediate horizons.
- 10. The pressure control diagram is attached to Form 9-331C and further described 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" casing-pressure to 1000 psi for 30 min. before drilling below 11 3/4"
casing.
8 5/8" casing-pressure to 1500 psi for 30 min. before drilling below 8 5/8"

casing. Yellow Jacket, Inc. to test 8 5/8" casing installation. Test @ 7500'.

- 11. See Form 9-331C.
- 12. A. DST Program None
 B. Cores None
 - C. Mud Logging 10' samples to TD.
 - D. Wire Line Logs: 350-2650' - Dual Laterolog/RXO/GR, Compensated Neutron/Compensated Density/ GR-Caliper. Run GR only from 0-350'. 2650'-TD - Dual Laterolog/RXO/GR, Compensated Neutron Compensated Density/ GR-Caliper.
- 13. No abnormal pressures anticipated with bottom hole pressures at TD expected to be 4200. Bottom hole temperature 169^oF. No Hydrogen Sulfide expected in this known drilling area. No crooked hole or abnormal deviation problems.
- 14. Anticipated starting date to spud Must spud prior to 1-27-82. Anticipated drilling time expected to be 40 days from surface to TD.

SURFACE USE PLAN

SOUTHLAND ROYALTY COMPANY SAND RANCH #2 660' FNL, 1980' FEL Sec. 35, T-10-S, R-29-E Chaves County, New Mexico 16804

0.2SWELL -

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 leasee). 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 Roswell, NM go approx 33 miles East on Hwy 380. Turn South on new access road & go approx. 1400' turn West & go 200' to pad.

2. Planned Access Road:

- a. One road will be built from the existing lease road to the proposed location. New road required will be 12 feet wide and 1600'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 SW/4 NE/4 in Sec. 25. The pit has been approved by BLM & suggested as source of caliche for pad & road construction.

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.
- 8. All trash and debris will be buried or removed form well site within 30 days after finish drilling and/or completion operations.
- 9. Ancillary Facilities:

None

- 10. Plans for Restoration of Surface:
- a. 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

Surface Leasee - Crawford Culp 407 W. Gold Hobbs, New Mexico 1/505/392-5176

13. Survace Ownership:

Bureau of Land Management - (Federal)

14. Operators Representatives:

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, New Mexico Home: 505/677-2295

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

15. Certification:

I hereby certify that I, or persons under my supervision, have inspected the prosposed 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.

12-10-81 DATE:

C. C. Parsons District Operations Engineer Southland Royalty Company





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FUTURE STORAGE TANKS

EXHIBIT	"C" Southland Royalty Company
	Sand Ranch # 2 660' FNL & 1980' FEL Section 35, T-10-S, R-29-E Chaves County, New Mexico
Scale l"	= 40'



July 29, -1980-

United States Geological Survey Drawer U Artesia, New Mexico 88210

> RE: Southland Royalty Company Empire Federal "20" #1" 500 Ritwell #2 660 1980" FNL & 660 FEL Sec. 20, T-18-S, R-29-E Circles Eddy County, New Mexico

> > ţ

Gentlemen:

Please find attached the following items concerning "Application for Permit to Drill" for the captioned well:

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- 1. Form 9-331C Application for Permit to Drill
- 2. Form C-102 Well Location Plat
- 3. Supplement to Form 9-331C
- 4. Surface Use Plans
- 5. BOP Sketch
- 6. Eastern New Mexico University Archaelogical Survey 👍 Golle 🝛
- 7. Exhibit A
- 8. Exhibit B
- 9. Exhibit C
- 10. Designation of Operator Forms will follow

Sincerely yours,

Don R Cia Don-R.-Craig

ec.P. District Operation Engineer

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DRC:RFN:cn

Attachments

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