#### SUBMIT IN TRIPLICATE\*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

UNITE				
DEPARTMENT	OF	THE	INTER	IOR

30.	-045	- 6	241	2
5. LEASE	DESIGNATION	AND	SERIAL	NO.

	GEOLO:	GICAL SURVE	ΞY			SF-077056	
GEOLOGICAL SURVEY  APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK					6. IF INDIAN, ALLOTTEE OE TRIBE NAME		
APPLICATION	I FOR PERMIT	O DRILL, L	JEEFE	IN, OR TEOG BA	· CI		
a. TYPE OF WORK  DRI	LL 🖾	DEEPEN [		PLUG BAC	к 🗆	7. UNIT AGREEMENT NAME	
D. TYPE OF WELL OIL GA	.8 ₩		81? ZO:	NGLE MULTIPLE	EX	S. FARM OR LEASE NAME	
WELL WI	ELL OTHER		20	NB		Cozzens	
	Royalty Company					9. WELL NO.	
ADDRESS OF OPERATOR	Dyarty Company					#6E	
ם אינביים ח	er 570, Farmingt	ton, NM 87	401			10. FIELD AND POOL, OR WILDCAT Basin Dakota	
LOCATION OF WELL (Re	eport location clearly and	in accordance wit	h any S	tate requirements.*)	W.C.	Undesignated Gallup  11. SEC., T., R., M., OR BLK.	
At surface	. १८६ <b>६।</b> छक्त					AND SURVEY OR AREA	
1540' FSL &						Cartion 10 m20N 11W	
•						Section 18, T29N, 11W	
	AND DIRECTION FROM NEA					San Juan New Mexi	
Approximate	ely 2 miles wes	t of Bloomt	ield,	. OF ACRES IN LEASE	17. No. 0	OF ACRES ASSIGNED	
LOCATION TO NEAREST	r	:	10. 80		то т	HIS WELL	
PROPERTY OR LEASE I. (Also to nearest drig	.(NE, FT. g. unit line, if any)	325 <b>'</b>	10 ~	713.69 2/		-320 /160 RY OR CABLE TOOLS	
S. DISTANCE FROM PROP TO NEAREST WELL, D	POSED LOCATION* RILLING, COMPLETED.		19. FK	6475 <b>'</b>	20. 10.	Rotary	
OR APPLIED FOR, ON TH	IS LEASE, PT.	2850 <b>'</b>	·	0473	l	22. APPROX. DATE WORK WILL START	
L. ELEVATIONS (Show who	ether DF, RT, GR, etc.)					March 15, 1980	
5613' GR		DROBOSED CASI	NG ANT	CEMENTING PROGRA	M	·	
·				SETTING DEPTH	1	QUANTITY OF CEMENT	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	тоот		140 S		
12 1/4"	8 5/8"	24#		200 <b>'</b> 6475 <b>'</b>		acks (Stage One)	
7_7/8"	5 1/2"	15.5#		047.5		acks (Stage Two)	
						acks (Stage Three)	
Top of Ojo Top of Mess Fresh wate It is antic No abnorma It is expe on time re Gas is ded	cipated that an l pressures or cted that this quired for appr icated.	at 875'. at 3335'. sed to dril IES and GF poisonous g well will k oval, rig a	R-Dens gases pe dr: availa	are anticipate illed before Aug ability and the	d in t gust 3 weath	his well.  1, 1980. This depends	
preventer program, if a	ny.	ſ				12-4-79	
SIGNED	Company of the Company	тт	ITLE	District Engin	eer	DATE 12-4-79	
(This space for Fed	leral or State office use)						
PERMIT NO.				APPROVAL DATE			
_						1 613	
APPROVED BY		T	ITLE			DATE COM.	
CONDITIONS OF APPRO	OVAL, IF ANY:	17 1					

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO LINERGY AND MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-78

all distances must be from the cuter houndaries of the Section

		All distances must be					Well Nc.
Cherator	DOTAL TOTAL COMPANY	3137	Lease COZZ	TMS			6-E
	ROYALTY COMPA	Township	Range		County		
Unit Letter	Section 18	2 <i>9</i> N	l	lW	IN .	n Juan	
J Actual Footage Loc		2711		<u> </u>	1		
		South line	<sub>and</sub> 1655		t from the	East	line
1540 Ground Level Elev.	feet from the Producing Fo		Pool	166	t nom the		Dedicated Acreage:
•		a/ Gallup	Bas	in / Unde	signated	ļ.	-320/160 - Acres
5613	Dakobe			1	- l l	- arlic on the	7.55 helow
<ol> <li>Outline th</li> </ol>	e acreage dedic	ated to the subject	well by cold	ored pencil o	r nachure i	marks on the	prat below.
2. If more the interest as	nan one lease is nd royalty).	dedicated to the	well, outline	each and ide	ntify the o	wnership the	ereof (both as to working
3. If more the dated by o	communitization,	unitization, force-p	ooling. etc?				all owners been consoli-
X Yes	No If a	answer is "yes," tyj	pe of consolid	lation	Conmun	nitized	
this form i	f necessary.)	ned to the well unti	l all interests	have been o	consolidate	ed (by comm	ned. (Use reverse side of nunitization, approved by the Commis-
							CERTIFICATION
	+	RECEIV DEC 1 4 19  J. S. GEOLOGICA FARMINGTON Sec.	ון יינ			name  Curtis Position Distr Company South	ertify that the information consin is true and complete to the knowledge and belief.  S. C. Parsons ict Engineer  land Royalty Company eber 4, 1979
•	                 	77056	15/101	1655'  FEE		shown on it notes of a under my s is true ar knowledge  Date Surveye  Octobe  Registered a and/or and	CABRED Y ST
		<u> </u>				Fre	Acri Jr
						Certificate	
0 330 660	-90 1320 1650 1	980 2310 2640	2000 1500	1000	500 0	3950	MERR. IR.

# SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

# 6 E COZZENS 1540' FSL & 1655' FEL Section 18, T29N, RllW San Juan County, New Mexico

5613' GR Elevation: Field: Basin Dakota/Undes. Gallup Geology:

5365' Gallup Formation Tops: Ojo Alamo 875' 6155' Graneros 1465' Fruitland 62751 Dakota 1745' Pictured Cliffs 6475' 3335 Total Depth Cliff House 4115' Point Lookout

Logging Program: IES & GR-Density from Total Depth to surface casing.

#### Drilling:

Contractor:

Tool Pusher:

SRC Representative:

SRC Answering Service: 325-1841 Dispatch Number: 325-7391

Mud Program: Fresh water to 5350'. Mud up at 5350'. Maintian mud weight of 8.9 to 9.3, viscosity of 35 to 40 sec, water loss of 10 to 12 cc. Anticipate losing some circulation in top of Dakota formation. Have ICM available on location.

#### Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. &	Grade
Cashid Lichten.	12 1/4"	200 <b>'</b>	8 5/8"	24#	К-55
	7 7/8"	6475 <b>'</b>	5 1/2"	15.5#	К-55

### Float Equipment:

8 5/8" Surface Casing: Pathfinder type "A" guide shoe.

5 1/2" Production Casing: Pathfinder type "A" guide shoe. Self-fill flapper type collar run one joint above shoe. 5 Pathfinder bow-type stabilizers. (Run every other joint from

shoe.) Run Dowell stage tools at 4500' and 1950'. Run one cement basket below and 5 Pathfinder rigid

stabilizers above each tool.

8 5/8"  $\times$  10", 2000# casing head with 5 1/2" slips Wellhead Equipment:

 $10" \times 6"$ , 2000# tubing head

#### Cementing:

8 5/8" Surface Casing: 140 sacks (165 cu. ft.) of Class "B" with 1/4# gel flake per sack and 3% CaCl. WOC for 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

5 1/2" Production Casing: STAGE ONE: 160 sacks (240 cu. ft.) of 50/50 Poz with 6% gel, 1/4# gel flake per sack, followed by 50 sacks of neat with 2% CaCl2. (Volume is 25% excess to cover top of Gallup.)

> STAGE TWO: 205 sacks (303 cu. ft.) of 50/50 Poz with 6% gel, followed by 50 sacks of neat with 2% CaCl2. (Volume is 50% excess to cover top of Cliff House.)

STAGE THREE: 190 sacks (279 cu. ft.) of 50/50 Poz with 6% gel. (Volume is 50% excess to cover top of Ojo Alamo.)

WOC and circulate between stages as required by well conditions.

> L. O. Van Rayan District Production Manager

BJM/ke



December 4, 1979

United States Geological Survey Mr. James Sims P. O. Box 959 Farmington, NM 87401

Dear Sir:
Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's Cozzens #6E well
The locations of tank batteries and flow lines will be on location with well. A burn pit will be provided for disposal of trash. Cuttings, drilling fluid and produced fluids will be put into the reserve pit and properly disposed of depending on amount and type of fluids.
There will be no camps or airstrips.
Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks.
Water supply will be The San Juan River
The location will be restored according to Bureau of Land Management standards. This work will begin when all related construction is finished

Mr. Ross Lankford will be Southland Royalty Company's field representative supervising these operations.

Curtis C. Parsons District Engineer

CCP/ke



United States Geological Survey Mr. James Sims P. O. Box 595 Farmington, NM 87401

Dear Sir:

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

Date: December 4, 1979

L. O. Van Ryan/
District Production Manager

LOVR/ke



December 4, 1979

United States Geological Survey Mr. James Sims P. O. Box 959 Farmington, NM 87401

RE: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 6" or larger double hydraulic blowout preventers and a hydraulic closing unit with steel lines.

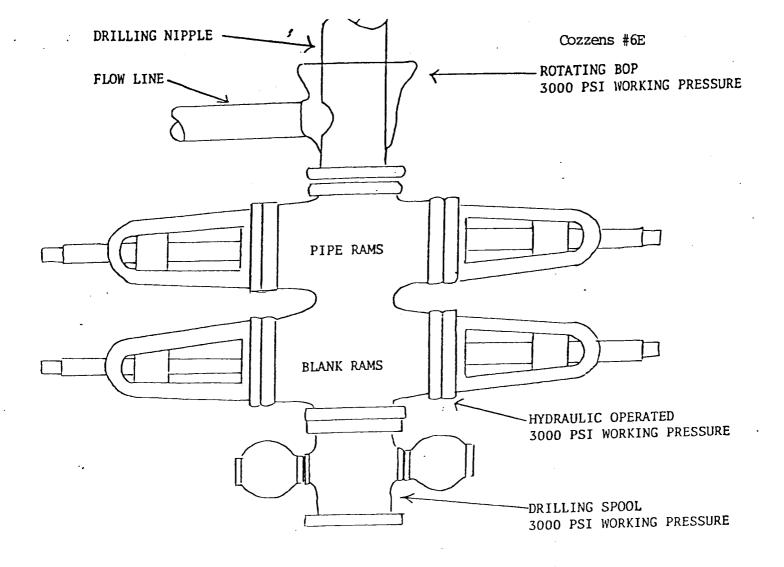
The preventer is 3000# working pressure and 6000# test pressure.

All crews will be thoroughly trained in the operation of this preventer. The preventer will be tested frequently enough to insure proper operation.

Yours truly,

Curtis C. Parsons District Engineer

CCP/ke



PREVENTERS AND SPOOLS ARE TO HAVE THROUGH BORE OF 6" - 3000 PSI OR LARGER

