## Form 9-327 C (May 1963)

SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

everse side)	30 -	045	-23/90
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DATE \_\_\_

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۶.	LEASE	DESIG	NA	TION	AND	SERI	ΑL	NO

DEPARTMENT OF THE INTERIOR					5. LEASE DESIGNATION AND SERIAL NO.			
Militar Li Richill GEOLOGICAL SURVEY					SF-076958			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. TYPE OF WORK								
	LL 🗓	DEEPEN [		PLI	JG BA	CK 🗌	7. UNIT AGREEMENT NAME	
b. TYPE OF WELL OIL [ ] GA	S X OTHER		SI	NGLE X	MULTIP	LE	8. FARM OR LEASE NAME	
WELL WI 2. NAME OF OPERATOR	ELL LXI OTHER		ZO	ne LXI	ZONE		Hare	
	nd Royalty Compa	any					9. WELL NO.	
3. ADDRESS OF OPERATOR							#22	
	rawer 570, Farm						10. FIELD AND POOL, OR WILDCAT	
4. LOCATION OF WELL (Re	port location clearly and	in accordance wit	h any S	tate requireme	nts.*)		Aztec Pictured Cliffs 🗸	
At surface 800'	FSL & 1830' F	٧L					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed prod. zone	e							
				· · · · · · · · · · · · · · · · · · ·			Section 14, T29N, R10W	
	East of Bloomf						12. COUNTY OR PARISH   13. STATE	
		reiu, New F					San Juan New Mexic	
15. DISTANCE FROM PROPO LOCATION TO NEAREST	•		16. NO	. OF ACRES IN	LEASE		OF ACRES ASSIGNED THIS WELL	
PROPERTY OR LEASE L. (Also to nearest drig	. unit line, if any)						159.82	
<ol> <li>DISTANCE FROM PROPO TO NEAREST WELL, DE OR APPLIED FOR, ON THE</li> </ol>	RILLING, COMPLETED,			OPOSED DEPTH		20. ROTA	Rotary	
21. ELEVATIONS (Show whe 5673 GR			•				22. APPROX. DATE WORK WILL START* August 15, 1978	
23.	F	ROPOSED CASI	NG AND	CEMENTING	PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING I	EPTH	1	QUANTITY OF CEMENT	
12-1/4"	8-5/8"	24#		120'		·	100 cu. ft.	
6-3/4"	2-7/8''	6.5#		2226	, †		370 cu. ft.	
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	ormation is Nac:							
	Alamo sand is er will be used		rom (	curface t	o tota	1 dent	b	
	ected that an I						onth 1018	
	of pressures or							
	ected that this							
depen	ds on time requ	uired for a	ppro	vals, rig	avail	abilit	y and the weather. 3	
Gas is ded	licated.		1 1	, ,			7000	
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		,				ii	E 24 1013	
						711		
						. : 3	got agrant. Survey Temprore in inf	
	drill or deepen directions					resent pro	ductive zone and proposed new productive d and true vertical depths. Give blowout	
24.		<u></u>						
	2)//a //w/	3.		strict Pr	oducti	on Man		
BIGNED	VIUM XVI	TIT	LTE		···		DATE	
(This space for Feder	ral or State office use)							

UNITED STATES

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

TITLE

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

Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section. Operator Lease Well No. HARE SOUTHLAND ROYALTY COMPANY Unit Letter Section Township Range County 29N 10W San Juan Actual Footage Location of Well: 800 feet from the South feet from the West Ground Level Elev. Producing Formation Dedicated Acreage: 5673 Pictured Cliffs 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? Communitization 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 Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. District Production Manager Company Southland Royalty Company July 20, 1978 Sec 14 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 Surveye i <u> 1830'</u> May 7, 1978 Registered Professional Engineer and/or Land Surveyo Fred B. Kerr Certificate No. 3950 1320 1650 1980

2000

## DRILLING SCHEDULE - HARE #22

Location: 800' FSL & 1830' FWL, Section 14, T29N, R10W, San Juan County, New Mexico

Field: Aztec Pictured Cliffs Elevation: 5673' GR

Geology:

Formation Tops: Ojo Alamo 1016'

Fruitland 1742'
Pictured Cliffs 2046'
Totah Depth 2226'

Logging Program: IES and GR-Density at total depth

Coring Program: None Natural Gauges: None

Drilling:

Contractor: Aztec Well Service, Rig #50 Tool Pusher: Bob Young

SRC Representative: Max Larson

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

Mud Program: Fresh water mud from surface to total depth.

Materials:

Casing Program:

Hole size	Depth	Casing Size	Wt. 8	Grade
12-1/4"	120	8-5/8"	24#	K-55
6-3/4"	22261	2-7/8"	6.5#	J-55

Float Equipment:

8-5/8" surface casing: Pathfinder Econoline guide shoe

2-7/8" production casing: Sawtooth collar guide shoe. Howco 2-7/8" latch down

baffle (Pr. ref. 60). Two 3-1/16" rubber balls. Howco 2-7/8" Omega plug (Pr. ref. 59). Use 3-1/4" ID plug container head. One B & W stabilizer each on bottom

6. jts.

Well head Equipment: 8-5/8" X 2-7/8" threaded head

Cementing:

8-5/8" surface casing: 85 sxs Class B with 1/4# gel flake per sx and 3% CaCl<sub>2</sub>.

(100 cu. ft.). WOC 12 hrs. Test to 600# prior to

drilling out.

2-7/8" production casing: 210 sxs 50/50 Class B Poz with 6% gel mixed with 7.2

gals water per sx, followed by 50 sxs Class B with 2% CaCl2. (370 cu. ft.) Bump plug with 50 gals 7-1/2% MSA. Run temperature survey 12 hrs after plug is down.

Date	 	



July 20, 1978

United States Geological Survey P. O. Box 959 Farmington, New Mexico

Attention: Mr. P. T. McGrath

Dear Sir:

Enclosed please find map showing existing roads and planned access roads to Southland Royalty Company's Hare #22 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.

Contractor will furnish restroom facilities on location.

There will be no air strips or camps.

Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks and cut required to build this location.

Water supply will be the San Juan River. All water will be transported by truck and stored on location.

The location will be restored according to Bureau of Land Management standards. This work will begin when all related construction is finished.

Mr. Max Larson will be Southland Royalty Company's field representative supervising these operations.

Yours truly,

L. O. Van Ryan

District Production Manager

LOVR/dg



July 20, 1978

United States Geological Survey P. O. Box 959 Farmington, New Mexico

Attention: Mr. P. T. McGrath

Re: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 8" or larger double gate hydraulic blowout preventers and a hydraulic operated closing unit with steel lines.

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

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,

L. O. Van Ryan

District Production Manager

LOVR/dg



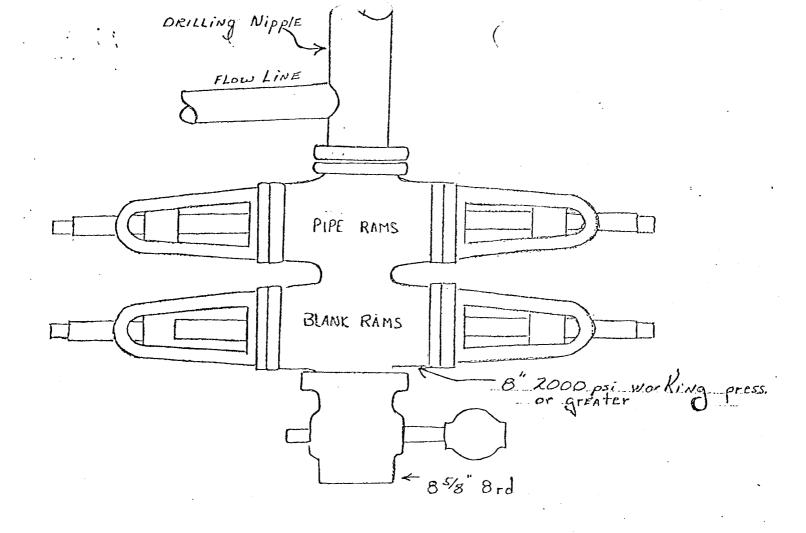
United States Geological Survey P. O. Box 959 Farmington, New Mexico 87401

Attention: Mr. P. T. McGrath

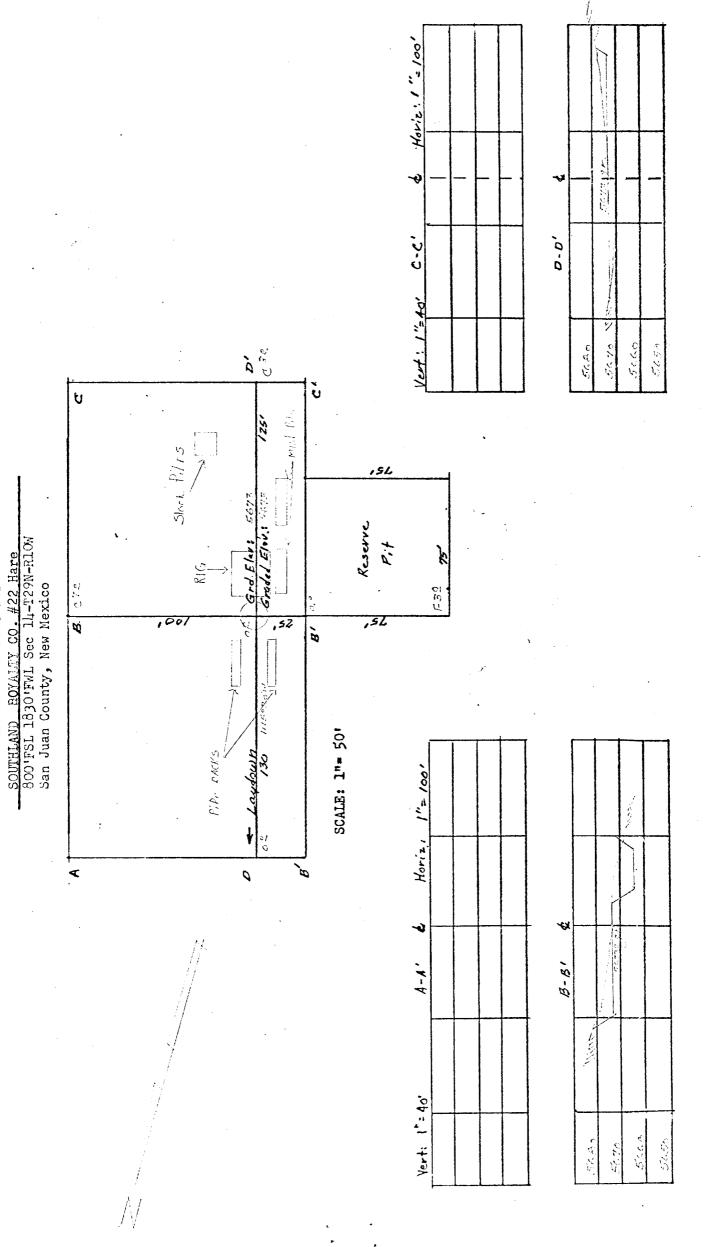
Dear Sir:

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 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:	July 20, 1978	Name:
		Title: District Engineer



Preventers and spools are to have through bore of 8" - 2000# or Jarger.



Location Profile for

KERR LAND SURVEYING Date: May 7, 1978

