SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

30-045-24043

5. LEASE DEBIGNATION AND SERIAL NO.

UNITED STATES						
DEPARTMENT OF THE INTERIOR						

	GEOLO(SICAL SURVE	ΞY			SF-077652	
APPLICATION	FOR PERMIT T	O DRILL, D	EEPE	N, OR PLUG B	ACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
	L 🗓	DEEPEN [PLUG BAC	CK □	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL OIL GAS	s €			NGLE MULTIPI	LE X	8. FARM OR LEASE N	AME
WELL WE 2. NAME OF OPERATOR	OTHER			ONE ZONE		EAST	
Southland Roya	alty Company					9. WELL NO.	
3. ADDRESS OF OPERATOR	irey company					#lOM	
P. O. Drawer 5 4. LOCATION OF WELL (Re	570, Farmington port location clearly and	, NM 87401 in accordance wit	h any S	tate requirements.*)		10. FIELD AND POOL, Basin Dakota Blanco Mesa 11. sec., T., B., M., OF	Verde
/ 1045' FSL & 16 At proposed prod. zone						Section 26,	
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST	OFFIC	E.*		12. COUNTY OR PARIS	i i
5 miles northw	est of Aztec, N	New Mexico			-	San Juan	New Mexico
15. DISTANCE FROM PROPOSE LOCATION TO NEAREST PROPERTY OR LEASE LI (Also to nearest drig.	NE, FT.	1045'	16. NO	0. OF ACRES IN LEASE 2560		OF ACRES ASSIGNED THIS WELL	
18. DISTANCE FROM PROPO TO NEAREST WELL, DR	SED LOCATION*		19. PF	OPOSED DEPTH	20. кот	ARY OR CABLE TOOLS	
OR APPLIED FOR, ON THIS	B LEASE, FT.	960'		7211'	<u> </u>	Rotary	VORK WILL START*
21. ELEVATIONS (Show when 6069 GR	ther DF, RT, GR, etc.)				-	February 1,	
23.	P	ROPOSED CASIN	G ANI	CEMENTING PROGRA	M.		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	00 T	SETTING DEPTH		QUANTITY OF CEM	ENT
13 3/4"	10 3/4"	32.75#		200'	135 \$	Sacks	
9 5/8"	7 5/8"	26.4#		4760'	135 \$	Sacks (Stage C	ne)
6 3/4"	5 1/2"	15.5#		4760'-7211'	1	Sacks (Stage T Sacks	<i>w</i> o)
Top of Ojo Ala Top of Picture Top of Point I Fresh water m Gas will be us No abnormal pr It is expected required for a It is anticipal casing. Gas is dedicated	sed to drill from the second s	1231'. is at 2486' at 4811'. to drill i om Intermed sonous gase l will be d availabilit S and GR-De	from diate es ar drill ty ar ensit	ry log Will be	epth in this 31, 19 run f	s well. 980. This deproyment Total Depot	h to curface
SIGNED SIGNED	Elan Kyan	TIT	ne Di	strict Product	ion Ma	nager DATE 1	19-19
•	ral or State office use)				-		
PERMIT NO.				APPROVAL DATE			
APPROVED BY			TLE			DATE	

DRILLING CRERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

OIL, CONSERVATION DIVISION P. O. BOX 2088

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-102 kevised 10-1-78

		All distances must be fo	om the cuter	tioundaries ef t	he Section		·
Ciperator			Lease				Well No.
- SOUTHLAND ROYALTY COMPANY			EAST				1_10M
Unit Letter	Section	Township	Romge		County		/
N	26	31N	1:	2 W	Sar	Juan	
Actual Footage Loca	tion of Well:		- 4 - 4			77 1	/
1045	feet from the	South line and		fee	from the	West	line
Ground Level Elev.	Producing Fo		Pool	Dlamas			Dedicated Acreage: 320 / Acrea
6069		Mesa Verde		1 - Blanco			
2. If more the interest and	an one lease is d royalty).		ll, outline	each and ide	ntify the o	wnership th	ereof (both as to working
dated by co	ommunitization, No If a	unitization, force-poo nswer is "yes;" type	ling. etc?	ation			all owners been consoli-
this form if	necessary.)	ed to the well until a	Il interests	have been o	onsolidate	d (by com	munitization, unitization, approved by the Commis-
			i				CERTIFICATION
⊙ SF-07765		Sec.	 			Name L. O. Va Position District Company Southlar	errify that the information con- rein is true and complete to the y knowledge and belief. An Gan an Ryan Production Manager and Royalty Company 19, 1979
SF-0776	552	26			1,	shown on notes of under my is true o	certify that the well location this plat was plotted from field octual surveys made by me or supervision, and that the same and correct to the best of my me and belief.
1695!	10151		· · · · · · · · · · · · · · · · · · ·		7	Free	Professional Engineer Surveyor B. EKERT T.
0 330 660	-00 1320 1650 1	980 2310 2640 2	000 1500	1000	800 0	3950	

DRILLING SCHEDULE - EAST #10M

Location: 1045' FSL & 1695' FWL, Section 26, T3lN, Rl2W, San Juan County, New Mexico

Elevation: 6069' GR Field: Basin Dakota/Blanco Mesa Verde

Geology:

Formation Tops:	Fruitland Pictured Cliffs Cliff House	1231' 2071' 2486' 4041'	Point Lookout Gallup Graneros Dakota	4811' 6091' 6946' 7011'
	Intermediate TD	4760'*	Total Depth	7211'

*INTERMEDIATETO IS CRITICAL. DO NOT DRILL PAST 4760'. ACCURATE STRAP WILL BE NECESSARY.

Logging Program: IES and GR-Density from Intermediate TD to surface casing. GR-Induction and GR-Density from TD to Intermediate casing.

Natural Gauges: Gauge well at TD. Also gauge any noticeable increases in

gas. Record all gauges in tour book and turn in on morning

report.

Drilling:

Contractor:

Tool Pusher:

SRC Ans. Service:

325-1841

SRC Representative:

Dispatch Number:

325-7391

Mud Program: Fresh water mud from surface to Intermediate TD.

Gas from Intermediate TD to Total Depth.

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
3	13 3/4"	200'	10 3/4"	32.75# K-55
	9 5/8"	4760'	7 5/8"	26.4# K-55
	6 3/4"	4610'-7211	5 1/2"	15.5# K-55

Float Equipment:

10 3/4" Surface Casing: Pathfinder type "A" guide shoe.

7 5/8"Intermediate Casing: Pathfinder type "A" guide shoe. Self-fill insert float valve run 2 joints above shoe. 5 Pathfinder rigid stabilizers run every other joint above shoe. Run Dowell stage tool at 2700'. Run cement basket below and 5 Pathfinder rigid stabilizers above tool.

5 1/2" Liner: Liner hanger with neoprene pack -off. Pathfinder type "AP"

quide shoe and type "A" float collar.

Wellhead Equipment:

10 3/4" X 10", 2000# casing head with 7 5/8" casing hanger

10", 2000# X 6", 2000# tubing head and tree

Cementing:

10 3/4" Surface Casing: 135 sacks (160 cu. ft.) of Class "B" with 1/4# gel flake/sk & 3% CaCl2. WOC 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

7 5/8" Intermediate Casing:

STAGE ONE 135 sacks (203 cu. ft.) of 50/50 Class "B" Poz w/6% gel (mixed w/7.2 gals wtr/sk). (Volume is 50% excess to cover top of Cliff House.)

STAGE TWO 225 sacks (415 cu. ft.) of 50/50 Class "B" Poz w/6% gel, followed by 70 sx Class "B" $\,$ W/2 CaCl₂. (Volume is 50% excess to cover top of Ojó Alamo.)

WOC and circulate between stages as required by well conditions.

WOC 12 hours. Test to 1000 psi prior to drilling out.

5 1/2" Liner: 250 sacks (369 cu. ft.) of 50/50 Poz w/6% gel, 1/4# gel flake per sx, 0.6% Halad 9 or equivalent (70% excess). If hole gets wet and mist drilling is required, use 290 sacks (434 cu. ft.) for 100% excess.

Precede cement with 20 barrels of gelled water.

O. Van Ryan Production Manager

BJM/ke	
CCP	
DATE	



November 19, 1979

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

Attention: James Sims

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's <u>Fast #10M</u> 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, encolsed is a location layout showing approximate location of rig, pits and pipe racks and cut required to build this location.

Water supply will be Farmers Ditch

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.

Yours truly,

L. O. Van Ryan District Production Manager

LOVR/dg

November 19, 1979

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

Attention: James Sims

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.

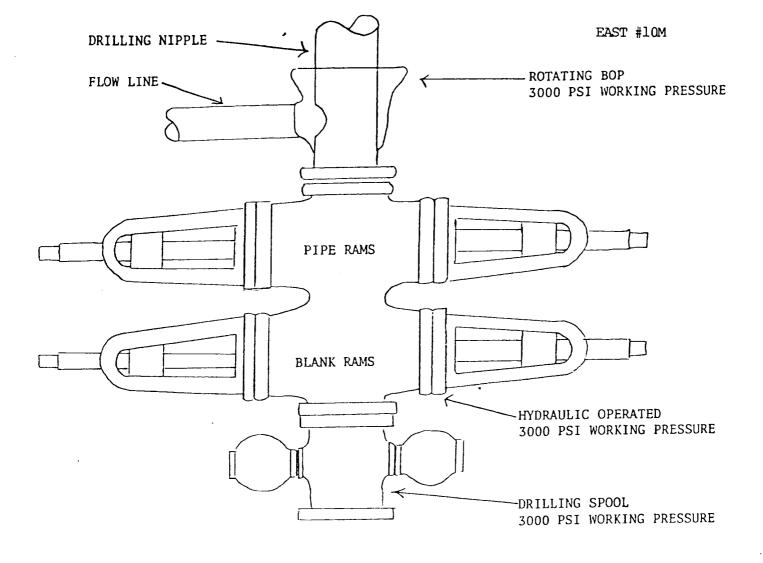
The preventer is 3000# working pressure and 6000# test.

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



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



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

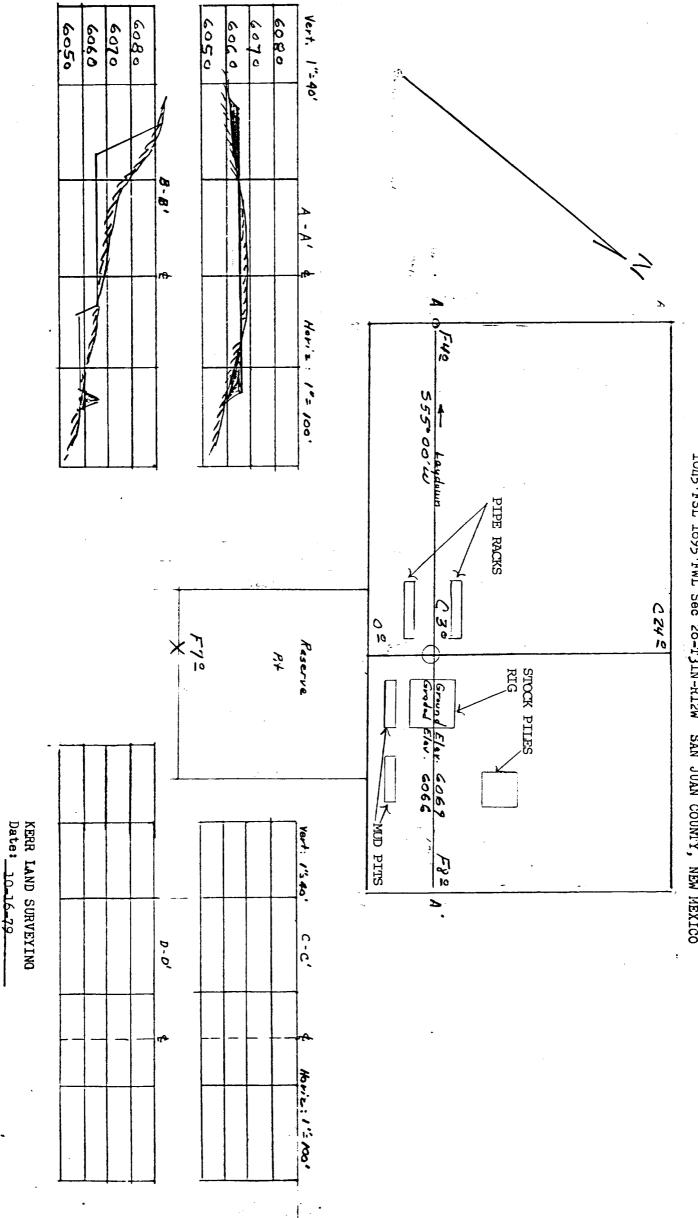
Attention: James Sims

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: November 19, 1979 Name: Van Jan

Title: District Production Manager



SOUTHLAND ROYALTY CO. #10M EAST 1045'FSL 1695'FWL Sec 26-T31N-R12W SAN JUAN COUNTY, NEW MEXICO

