SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

(May 1963)	UN	NT OF THE IN	TER	reverse sid		30-039-22 5. LEASE DESIGNATION	532 AND SERIAL NO.	
DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY						Jicarilla 101		
APPI ICATI	ON FOR PERMI			N, OR PLUG B	ACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME	
a. TYPE OF WORK	DRILL 🛚	DEEPEN [PLUG BAC		7. UNIT AGREEMENT N	AME	
b. TYPE OF WELL OIL WELL	GAS WELL OTHER		SIN	GLE MULTIPL ZONE	E X	8. FARM OR LEASE NA		
2. NAME OF OPERATO	R					Jicarilla 101	·	
3. ADDRESS OF OPERA					=17	3M 10. FIELD AND POOL,	OR WILDCAT	
P. O. Drawe Location of Well At surface	er 570, Farmingt	on, NM 87401 and in accordance with	any St	ate requirements.*)	<u>راسا</u> (۱)	Basin Dakota Blanco Mesa V 11. sec., T., B., M., OB	7erde	
⁄1650' FNL 8	§ 915' FWL		\	SEP 1 9 19		AND SURVEY OR A	REA	
At proposed prod			37710	U. S. CEOLOGICAL	SURVEY 1. ld.	Section 1, T2		
	LES AND DIRECTION FROM		OFFICE	PARMING	الدوائية ومناورين فراتم والمسروري	Rio Arriba	NIM	
15. DISTANCE FROM I	outh/southwest (Duice, Net	16. NO.	OF ACRES IN LEASE	1	OF ACRES ASSIGNED	/ . 5.	
PROPERTY OR LE. (Also to nearest	ASE LINE, FT. t drlg. unit line, if any)	1650'	10 pp	2561.86	20. ROTA	U320,36 + W	1320.56	
TO NEAREST WE	PROPOSED LOCATION* LL, DRILLING, COMPLETED, N THIS LEASE, FT.	1825'	19. PK	8254 '		Rotary		
	w whether DF, RT, GR, etc	.)				22. APPROX. DATE W September 30		
7062' GR		TO SOUTH CARE	C AND	CEMENTING PROGRA		September 30	7, 1300	
23.		PROPOSED CASIN		SETTING DEPTH		QUANTITY OF CEMI	ENT	
SIZE OF HOLE	10 3/4"	32.75#		200'	135 s	x -circ. to su	ırface	
<u>13 3/4"</u> 9 7/8"	7 5/8"	26.40#		4086'	390's	ex - to cover t	<u>to 1500'</u>	
6 3/4"	5 1/2"	15.50#		3966'-6800' 6800'-8254'	111	ex - circ. line	ar rob	
<u>و</u> ٠ :	•				iministrat Histori	lye		
Top of Ojo Top of Pic Fresh wate Gas will b It is anti No abnorma It is expe on time re Gas is ded	SCRIBE PROPOSED PROGRAM is to drill or deepen dire	at 3519'. Ind is at 3786' Ind is at 37	rom siate nsites are rilles labi	y log will be re anticipated is ed before December and the we	run at in this aber 31 eather.	TD. s well. 1, 1980. This	depends	
24.	R. E. Fielde			istrict Enginee		\	12-80	
BIGNED			- LIVE - 77	1301100 1119110		TO SEE A SEE		
(This space for	r Federal or State office u	se)		APPROVAL DATE				
ADDR	OVED			APPROVAL DATE				
APPROVED BY	F. SIMS ENGINEER		rle			DATE		

STATE OF NEW MEXICO P. O. BOX 2088 NERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

SOUTHAND ROYALTY COMPANY SOUTHAND ROYALTY COMPANY Bottlet From Section With 1 26N New Rio Arriba Road From Royalty Rio Arriba Road From Rio Arriba Road From Rio Arriba Rod Arriba Road From Rio Arriba Road Road Road Road From Rio Arriba Road Road Road Road Road Road Road Road			All distances m	uel he fro		Tie Under 17 B		•	Well No.
In Letter Section Township Town	Operator				Lease		_		
Section Part Section Sec	SOUTHLAND !	ROYALTY COMPAN							
Second Footoga Location of Wait: 1650 trea from the North line and 915 frest from the West line Mesa Verde-Basin Dakota 320/160 Kerse Me	Unit Letter	Section	i i		1 .		1		
Sec.	E	1	26N		4	W	Rio	Arriba	
Sec. Production Formation Production		ation of Well:					•	77 _4	·
Producting Formation Producting Formation Prod Meas Verde-Dakota Blanco Mesa Verde-Basin Dakota 320/160 Acres	1650	feet from the No	o rt h	line and	915		feet from the	West	
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 (hoth 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? Yes No 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-stendard unit, eliminating such interests, has been approved by the Commission. SEP 1 9 1980 SEP 1 9 1980 SEP 1 9 1980 SEP 1 9 1980 About Certify that the information contained have in its two ond complete to the best of my how-ledge and belief. None Robert E. Fielder Position District Engineer Company Southland Royalty Company Southland Royalty Company Southland Royalty Company Answer set of the well incested in any supervision, and that the same is two ond completes of the best of my how-ledge and belief. Reissuad August 17, 1980 Dues Survey and blief. Reissuad August 17, 1980 Dues Survey and blief. Reissuad August 17, 1980 Dues Survey and Survey and Survey Reined from field and survey and	Ground Level Elev.		mation						1
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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? Yes									
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SEP 1 9 1980 SEP 1 9 1980 U. S. CEO CEICAL SURVEY FAMILY ALON, N. L Sec. 1 1 1 hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Position District Engineer Company Southland Royalty Compatible of the well location Sham on this plat was platted from field notes of actual surveys made by me or water my supervision, and that the same is true and correct to the best of my knowledge and belief. Reissued August 17, 1980 Date Surveyed June 1, 1980 Date Surveyed Date Surveye	this form i No allowal forced-poo	f necessary.)	ed to the well	until all	interests	have been	consolida	ted (by com	munitization, unitization,
SEP 1 9 1980 SEP 1 9 1980 U. S. CLO CCICAL SURVEY TANKEL COM. N. L. Sec. 1 Acres y 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 carrect to the best of my knowledge and bellef. Reissued August 17, 1980 Date June Laruffly Regisfred programment of the desired of the same of the field desired to the control of the same of the carrect to the best of my knowledge and bellef. Reissued August 17, 1980 Date June Laruffly Regisfred programment of the desired programm					1				CERTIFICATION
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. Reissued August 17, 1980 Date Surveyed June Like DATE Registrated Professional Anineer and/of Cond division of the professional Anineer and/of Cond division of the professional Anineer Anine B. Katte JT Certificate to MERR. In. 3950 MERR. In.	H		ec.		SEP	1 9 1 980 ccical suf		Name Robert Position Distri Company Southl	rein is true and complete to the by knowledge and belief. Puldu E. Fielder ct Engineer and Royalty Company
Date Surveyed June Part Date Registrick Profess Doubt Anineer and a Cond Surveyed Fired B. Lary Jr Certificate No. MEX 3950 & KERR. B.				1			10070 10070	shown or notes of under my is true	this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my
3950 & KERR. IN.		0			,	 		June / Hegis ried and ried Fred Certificate	B. Kerr Jr
0 330 660 90 1320 1880 2310 2640 2000 1800 1000 800 0					1 1 1 1 1 1 1	1000	-	3950	& KERR. IN.

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

JICARILLA 101 #3-M

1650' FNL & 915' FWL Section 1, T26N, R4W Rio Arriba County, New Mexico

Field:	Blanco Mesa Verde/	Basin Dakota	Elevation:	7062' GR		
Geology:	Formation Tops:	Ojo Alamo Fruitland Pictured Cliffs Intermediate TD	3519' 3644' 3786' 4086'	Cliff House Point Lookout Gallup Graneros Dakota Total Depth	5496' 5927' 6928' 7975' 8074' 8254'	
	Logging Program:	IES from Intermediate TD to Surface Casing Shoe, GR-Density from Intermediate TD to 3000'. GR-Induction from Total Depth to Intermediate Casing shoe. GR-Density from Total Depth to 6800' and from 6300' to 5400'. Log any shows.				
	Coring Program:	None				
	Natural Gauges:	Gauge at last connection above Cliff House, Point Lookout, Gallup, Graneros, Dakota, and Total Depth. Gauge any increase in gas flow. Note all depths and gauges on daily drilling report.				
<u>Drilling</u> :	Contractor: SRC Represenative:		. 3	Tool Pusher: SRC Answering S		

Mud Program:

Fresh water mud from surface casing shoe to Intermediate

Total Depth. Gas from Intermediate casing point to

Total Depth.

Materials:

Casing Program:	Hole Size	Depth Set	Casing Size	Weight 8	Grade
345111g 119g1	13-3/4" 9-7/8" 6-3/4"	200' 4086' 3966' – 6800' 6800' – 8254'	10-3/4" 7-5/8" 5-1/2" 5-1/2"	32.75# 26.40# 15.50# 17.0 #	K-55 N-80 K-55 K-55

Float Equipment:

10-3/4" Surface Casing:

Baw FC01 Cement Guide Shoe.

7-5/8" Intermediate Casing:

B&W FC01 Cement Guide Shoe, B&W F255 self fill float collar, 5 B&W CA01 rigid centralizers spaced every other joint above shoe. Run

float two joints above shoe ..

5-1/2" Liner:

B&W FC03 Geyser Guide Shoe and B&W FP01

flapper float collar.

 $7-\hat{5}/8$ " X 5-1/2" liner hanger with neoprene

packoff.

Tubing:

5950' of 1-1/2", 2.76#, V-55, IJ (Mesa Verde) and 8200' of 1-1/2", 2.9#, J-55 EUE (Dakota).

Wellhead:

10-3/4" Female 8rd X 10", 2000# casing head. 10", 2000# X 6", 2000# tubing head with dual 1-1/2" tubing hanger.

Cementing:

10-3/4" Surface Casing:

Use 135 sacks (160 cu.ft.) of Class "B" with $2\%~CaCl_2$ and 1/4# gel flake per sack. 100%excess to circulate. WOC 12 hours. Test to

600 psi prior to drilling out.

7-5/8" Intermediate Casing:

Use 320 sacks of 50/50 Class "B" Poz with 6% gel and 1/4# gel flake per sack followed by 70 sacks (556 cu.ft.) of Class "B" with 2% CaCl2 and 1/4# gel flake per sack. To cover to 1500'. Run temperature survey 8 hours after plug down. WOC 12 hours. Test to 1000 psi prior to drilling out.

5-1/2" Liner:

Use 410 sacks (607 cu.ft.) of 50/50 Class "B" Poz with 6% gel, 0.5% CFR-2, 0.4% HR-7 and 1/4# gel flake per sack. 70% excess to circulate liner top. Precede cement with 40 barrels gel water.

L. O. Van Ryan

District Production Manager

9/10/80

REF/eg



September 15, 1980

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

Dear Mr. Sims:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's __Jicarilla 101 #3M well.

The location of tank batteries and flow lines will be on location with the 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, pipe racks and cut required to build this location.

Water supply will be water holes along the Tapacitos Wash All water will be transported by truck and stored on location.

The location will be restored according to the Bureau of Indian Affairs 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.

Sincerely,

SOUTHLAND ROYALTY COMPANY

Robert E. Fielder District Engineer

REF/ke



September 12, 1980

United States Geological Survey Mr. James F. Sims District Oil and Gas Supervisor P. O. Box 959 Farmington, NM 87401

RE: Blowout Preventer Plan

Dear Mr. Sims:

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

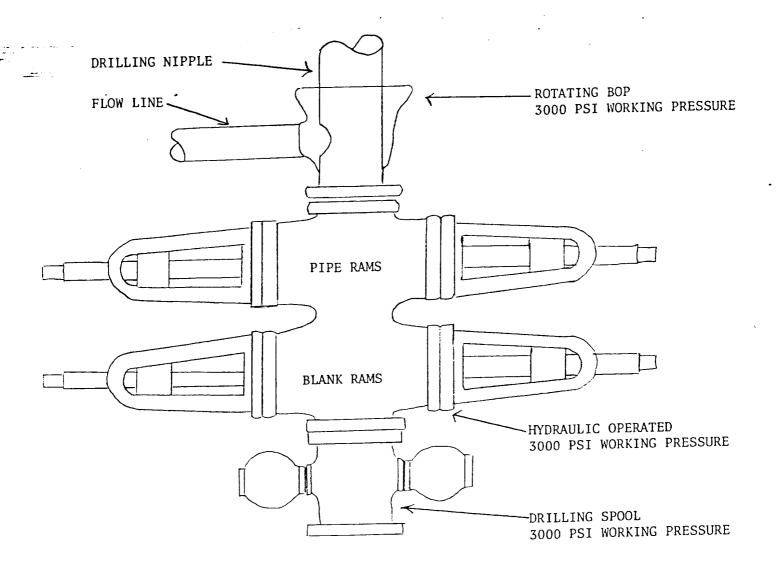
The preventer is 3000# working pressure and 6000# test pressure. All crews will be thoroughly trained in the operation of this preventer. The preventer will be tested frequently enough to insure proper operation.

Sincerely,

SOUTHLAND ROYALTY COMPANY

Robert E. Fielder District Engineer

REF/ke



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

> Southland Royalty Company Jicarilla 101 #3M 1650' FNL & 915' FWL Section 1, T26N, R4W Rio Arriba Co., NM



September 12, 1980

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:

L. O. Van Ryan (

District Production Manager

LOVR/ke

