## SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

## UNITED STATES DEPARTMENT OF THE INTERIOR

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  La THEFOR WORK  DETTER OF WORK  WILL WILL WAS DEEPEN DEEPEN DELICION OF PLUG BACK  TYPE OF WILL WAS DEEPEN DELICION OF THE STATE OF WORK DELICION OF WILL WAS DEEPEN DELICION OF WILL WAS DELICION FROM THE WAS DESCRIBED TO WILL WAS DESCRIBED OF WILL WAS DELICION FROM THE WAS DESCRIBED TO WILL WAS DESCRIBED TO WERE WELL WAS DESCRIBED TO WILL WAS DESCRIBED TO WE WAS DELICION WAS DESCRIBED TO WE WAS DESCRIBED TO WE WAS DELICION WA	DELACTION OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.		
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D. PILLED OF SERVICE  SOUTH AND ROYALTS COMPANY  2. MARKES OF CORRECTOR  SOUTH AND ROYALTS COMPANY  2. ADMERS OF CORRECTOR  P. O. Draver 570, Farmington, New Mexico  1. LOCATION OF WELL (Report location clearly and in secondance with any State requirements)  At sources  870' FSL 4 1450' FNL  At proposed pod. 2006  1. PILLED OF STATE O						7. UNIT AGREEMENT I	NAME		
The property of the property o		LL CA	DLLI LIN	J		_			
Southland Royalty Company  3. AUGRESS OF UPRANCT STO, Farmington, New Mexico P. O. Drawer STO, Farmington, New Mexico Blanco Mesa Verde QX  4. ACCURDS OF WELL (Report location clearly and in accordance with any State requirements.)  At proposed prod. Sone  870' FSL & 1450' FWL  At proposed prod. Sone  870' FSL & 1450' FWL  At proposed prod. Sone  10. DISTANCE NOT MILES NORTH OF Gobernador  11. MILES NORTH OF Gobernador  12. DISTANCE PROF. P						E	8. FARM OR LEASE NA	ME	
2. ALBRIESS OF OFFICE AND PRODUCT STORES OF CONTROL OF A PRODUCT STORES OF S									
P. O. Drawer 570, Farmington, New Mexico  A Section of Will. (Report location clearly and in secondame with any State requirements.)  At proposed prod. sone  870' FSL § 1450' FWL  At proposed prod. sone  12. In section 1, T30N, RSW  13. Bigsaker in Milea and Biraction From Nearest Town on Form of Prices  17 miles North of Gobernador  10. Instruct First Purposed prod. sone  11. Bigsaker from Purposed becarries  12. Proposed prod. sone  13. Proposed prod. sone  14. No. OF ACRES IN LEASE  15. No. OF ACRES IN LEASE  15. No. OF ACRES IN LEASE  16. No. OF ACRES IN LEASE  17. No. OF ACRES IN LEASE  18. DISTANCE FIRST CONCENTION: No. Manual Processor Concentration of Prices  18. DISTANCE FIRST PURPOSED CONCENTION: No. Manual Proposed Destrict  18. DISTANCE FIRST PURPOSED CONCENTION: No. Manual Proposed Destrict  18. DISTANCE FIRST PURPOSED CONCENTION: No. Manual Proposed Destrict  18. DISTANCE FIRST PURPOSED CONCENTION: No. Manual Proposed Destrict Purposed De		yalty Company							
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18. BERANCE FROM PROPOSED LOCATION:  (Also to bearest delg. unit line, if any)  18. DEFANCE FROM PROPOSED LOCATION:  (A) NO MARKEN WILL, BELLEVILLE,  (B) 19. PROPOSED DEPTH  (B) 19. PROPOSED DEPTH  (B) 19. PROPOSED DEPTH  (B) 20. BOTART OR CAME YOURS  (B) 22. AFFROM, DATE WORK WILL STARY  (B) 22. AFFROM, DATE WORK WILL STARY  (B) 23.  PROPOSED CASING AND CEMENTING PROGRAM  SHE OF HOLE  SHE OF CASING  WEIGHT PER FOOT  SETTING BETH  QUANTITY OF CEMENT  12-1/4"  9-5/8"  36#  200"  130 cu. ft.  8-3/4"  7"  20#  3783"  254 cu. ft.  6-1/4"  4-1/2"  10.50#  3633'-6168'  442 cu. ft.  2-3/8"  4.7#  6100'  Surface formation is San Jose.  Top of the Ojo Alamo is at 2663'.  Top of the Pictured Cliffs is at 3383'.  Fresh water mud will be used to drill from intermediate depth to total depth.  It is anticipated that an IES and a Gamma Ray Density log will be run at intermediate depth.  It is anticipated that a Gamma Ray Induction and a Gamma Ray Density log will be run at total depth.  No abnormal pressures or poisonous gases are anticipated in this well.  It is expected that this well be drilled by August 15, 1978. This depends on time required for approvals, rig availability and the weather.  Gas is dedicated.  NA ABOVE BYCKE PROPOSED. PROCRAM: If proposal is to deepen or plug back, give data on present productive soon will proposed new productive forms. If proposal is to define or performs of the production of the production of the production of the production of the productive forms of the production of the pro	17 miles N	orth of Goberna	dor			BUY	Sen Juan	New Mexic	
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BILE OF HOLE    SIEE OF CASING   SHEW PER FOOT   SETTING DEPTH   QUANTITY OF CEMENT							1001) 1, 1370	<del></del>	
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*See Instructions On Reverse Side	-		+2مم اسمع	etion-	On Royana Sida	ί	the second secon		

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

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section.						
Operator		Lease		[	Well No.	
SOUTHLAND		CARSON	·		2	
Unit Letter	Section Township	Range	County			
N	1 30N	5W	Rio A	rriba		
Actual Footage Loc	ation of Well:			•		
870	feet from the South line and	1450 feet	from the	West 1	ne	
Ground Level Elev:	Producing Formation	Pool			ed Acreage:	
6586	Mesa Verde	Blanco	7√دو	31	9.29 Acres	
	<u></u>	l			<del></del>	
1. Outline th	e acreage dedicated to the subject w	ell by colored pencil of	r hachure n	narks on the plat	below.	
2 If more th	an one lease is dedicated to the we	ll, outline each and iden	ntify the ov	wnership thereof	(both as to working	
	nd royalty).			. •	, ,	
interest a	id Toyalty).				•	
0.77	an one lease of different ownership is	dadicated to the well	have the in	terests of all o	wners been consoli-	
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dated by o	ommunitization, unitization, force-pool	ing. etc:		•		
<u> </u>		<i>i</i>				
Yes Yes	No If answer is "yes," type	ot consolidation	<del></del>			
		•				
If answer	is "no," list the owners and tract des	criptions which have ac	ctually beer	n consolidated. (	Use reverse side of	
this form i	f necessary.)	·				
No allowa	ble will be assigned to the well until a	ll interests have been c	onsolidate	d (by communiti	zation, unitization,	
forend non	ling, or otherwise) or until a non-standa	rd unit, eliminating suc	h interests	has been appro	ved by the Commis-	
1	ing, or otherwise or until a non-standa	id unit, criminating suc		, 200 appro		
sion.			<del></del>	·		
	44/8.7	N 89°57'W	<del></del>	CER.	TIFICATION	
			1 1	I hereby certify:	that the information con-	
				tained herein is	true and complete to the	
	1			best of my know	ledge and belief.	
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				3950		

DRILLING SCHEDULE - Carson #2

Location: 870' FSL & 1450' FWL Section 1, T30N, R5W, San Juan County, New Mexico

Field: Blanco Mesa Verde Elevation:

Geology:

Formation Tops: Ojo Alamo 2663 Cliff House 5343 Fruitland 3258 Pt. Lookout 5818 Pictured Cliffs 3383 Total depth 6168

Intermediate 3783

Logging Program: IES and GR-Density at Intermediate TD, GR-Induction and GR-Density

at total depth.

Coring Program: None

Natural Gauges: Gauge at last connection above Cliff House, Pt. Lookout and total

USIVE

depth. Gauge all increased in gas flow.

Drilling:

Contractor: JUN 1 9 1978 Tool Pusher:

SRC Ans. Service: 325-1841

SRC Representative: Max Larson, October Survey Dispatch Number: 325-7391

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

Air from intermediate to total depth.

Materials:

Casing Size Wt. & Grade Casing Program: Hole Size Depth 9-5/811 36#, K-55 12-1/4" 2001 7" 20#, K-55 37831 8-3/4" 10.50#, K-55 4-1/2" 6-1/4" 3633'-6168'

Float Equipment:

9-5/8" Surface Casing: Pathfinder Type "A" Guide Shoe. Product #2003-1-012.

7" Intermediate Casing: Pathfinder Type "A" Guide Shoe. Product #2003-1-007. Howco self-fill insert valve. Five pathfinder rigid centralizers. Run float valve 2 jts above shoe. Run

centralizers every other jt above shoe.

4-1/2" Liner: Pathfinder Type "AP" Guide shoe. Product #2017-1-050.

Pathfinder Type "A" Flapper Float Collar. Product #2008-2-000

Tubing: 6100' of 2-3/8", 4.7#, J-55, EUE tubing.

Wellhead Equipment: 9-5/8" X 10" 2000 casing head and 10" 2000 X 6" 2000 tubing head

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9-5/8" surface casing:

110 sxs (130 cu. ft.) Class B w/1/4# gel flake, 3% CaCl<sub>2</sub>. WOC 12 hrs. Test 600# prior to drilling out.

7" intermediate casing:

110 sxs 50/50 Class B Poz with 6% gel mixed with 7.87 gals

water per sx followed by 70 sxs Class B with 2% CaCl<sub>2</sub>.

WOC 12 hrs. Temperature Survey after 8 hrs.

4-1/2" liner:

Precede cement with 20 bbls gel water. Cement with 270 sxs (442 cu. ft.) 50/50 Class B Poz with 6% gel, 1/4# gel flake per sx, 0.6% Halad 9 or equivalent.

L. O. Van Ryan

Da	te		



June 16, 1978

United States Geological Survey P. O. Box 1809
Durango, Colorado

Attention: Mr. Jerry Long

Dear Sir

Enclosed please find map showing existing roads and planned access roads to Southland Royalty Company's Carson #2 well. The location 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 water holes along the La Jara Wash. All water will be trucked and stored in tanks on location.

The location will be restored according to the Forest Services 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,

JUN 1 9 1978

L. O. Van Ryan District Production Manager

LOVR/dg



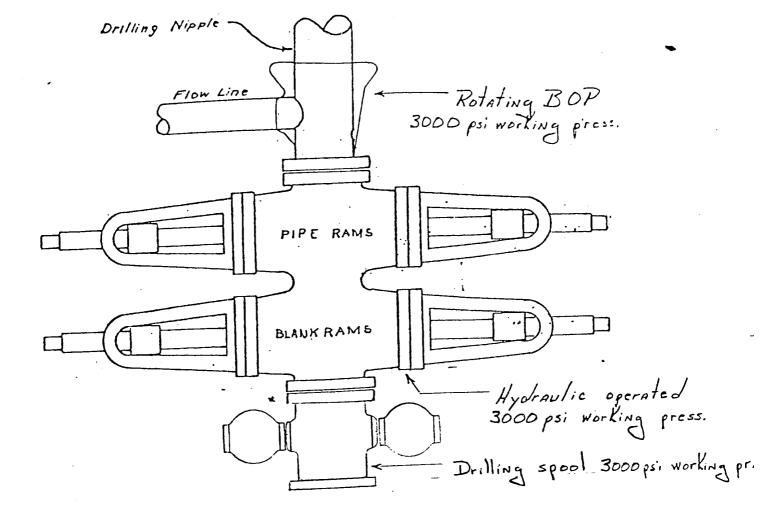
United States Ceological Survey P. O. Box 1809 Durango, Colorado

Attention: Mr. Jerry Long

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:	June 16, 1978	Name:_		1 asas
		Title:	District	Engineer



Preventers and spools are to have through bore of 8" - 3000# PSI or larger.

JUN 1 9 1978

L. C. There was a spayer



June 16, 1978

United States Geological Survey P. O. Box 1809
Durango, Colorado

Attention: Mr. Jerry Long

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

