SUBMIT IN TRIPLICATE*

structions on rse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES	(Other in reve
TOLDTACKT OF THE INTEDIOD	

30-045	-23111
5. LEASE DESIGNATION	AND SERIAL NO.

<u>30</u>	- 045	-,23	111
5. LEASE	DESIGNATION	AND SERIAL	No.

	DEPARTMEN	I OF THE IN	TERIOR		5. LEASE DESIGNATION	AND SERIAL NO.
GEOLOGICAL SURVEY			SF-080781			
APPLICAT	ION FOR PERMIT	TO DRILL DE	EPEN OR PLUG	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK			(OK 1200	D. CCIC		
b. Type of well	DRILL 🖸	DEEPEN 🗌	PLUG BA	CK 🗌	7. UNIT AGREEMENT N.	AME
WELL	WELL X OTHER		SINGLE X MULTI	PLE	8. FARM OR LEASE NAM	(B
2. NAME OF OPERATO)R				Cain	
Southland	Royalty Company				9. WELL NO.	
3. ADDRESS OF OPERA					#3-R	
P. O. Dra	wer 570, Farmingt L (Repor: location clearly and	on, New Mexic	0		10. FIELD AND POOL, O	R WILDCAT
_ At surface			any State requirements.*)		Blanco Mesa V	
1	10' F3L & 810' FE	L -			11. SEC., T., R., M., OE B AND SURVEY OR AR	LK. EA
At proposed prod	. zone					
14 DISTANCE IN MIL	LES AND DIRECTION FROM NEA	DEST TOWN OF BOSM O	PPIOR \$		Section 30, T	29N, R9W
10 M116S 15. DISTANCE FROM F	Southeast of Bloc		MEXICO 6. NO. OF ACRES IN LEASE	1 17 NO 6	San Juan OF ACRES ASSIGNED	New Mexic
LOCATION TO NEA PROPERTY OR LEA	AREST	1	o. No. of Action IA DEADE		HIS WELL	
(Also to nearest	drlg, unit line, if any)		9. PROPOSED DEPTH	20 20 20 20 20 20 20 20 20 20 20 20 20 2	268,42 RY OR CABLE TOOLS	
	LL, DRILLING, COMPLETED,	1		20. ROIA		
	whether DF, RT, GR, etc.)		4670'		Rotary 22. APPROX. DATE WOL	OF WHILE CHAPMS
5701' GL	,,					
23. STOT GL		PROPOSED GASING	AND CEMENTING PROGR	437	June 26, 19	/8
		THOTOSED CASING	AND CEMENTING FROGR	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT		_	QUANTITY OF CEMEN	r
12-1/4"	9-5/8"	36#	200'	_	110 sacks	
8-3/4"	7"	20#	2292'	-	195 sacks	
6-1/4"	4-1/2"	10.5#	2142'-4670'	-	270 sacks	
	2-3/8"	4.7#	4650'	•		
a c c		•				
	ormation is Nacim					
	o Alamo is at 106					
	ctured Cliffs is er mud will be us		from surface to in	tarmed:	iata total dont	b
	stem will be used					
	icipated that a G					
	al depth.				200217 208 00	2 67.1
	al pressures or p	oisonous gase	es are anticipated	l in th	is well.	
	ected that this w					ids on
rig av	ailability, time	required for	approvals and the	e weath	er.	
Gas is de	dicated.		A STATE OF THE STA		· ,7 ** 1	
					, · · · · ·	es I
			1 11.			
IN ABOVE SPACE DESC	RIBE PROPOSED PROGRAM: If	proposal is to deepen allyagive persinent de	or plug back, gle data on p	resent produ	active zone and proposed	new productive

IN **z** 0 preventer program, if any.

24. (This space for Federal or State office use)

Dis7 Production Manager Distri June 14, 1978

DATE ___

PERMIT NO. _ APPROVAL DATE ...

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

TITLE

Oftal Nui-4,

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 Well No. Lease Operator 3-R SOUTHLAND ROYALTY COMPANY CAIN County Unit Letter Township Romae San Juan 30 29N Actual Footage Location of Well: 810 South feet from the feet from the Dedicated Acreage: Pool Ground Level Elev: Producing Formation 268.42 Blanco 5701' Mesa Verde 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? If answer is "yes," type of consolidation _ Yes 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. Scale: 1"= 1000" CERTIFICATION N89°00'W 2919.18 1459.92 375.54 I hereby certify that the information contained herein Is true and complete to the best of my knowledge and belief. Position 10001 District Production Manager Southland Royalty Company Date June 14, 1978 Sec I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or NW 11 - 40. under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed 1978 Registered Professional Engineer Certificate No. 3950



00/1

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:June 14, 1978	Name: (Parsona
	Title: District Engineer



June 14, 1978

United States Geological Survey P. O. Box 959 Farmington, New Mexico 87410

Attention: Mr. P. T. McGrath

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's <u>Cain #3-R</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 preperly disposed of depending on amount and type of fluids.

There will be no camps or air strips.

Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks.

Water supply will be San Juan River .

The location will be restored to the land owner's satisfaction. If this is not satisfactory, please have the Bureau of Land Management contact the land owner. 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



June 14, 1978

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

Attention: Blowout Preventer Plan

Dear Sir:

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

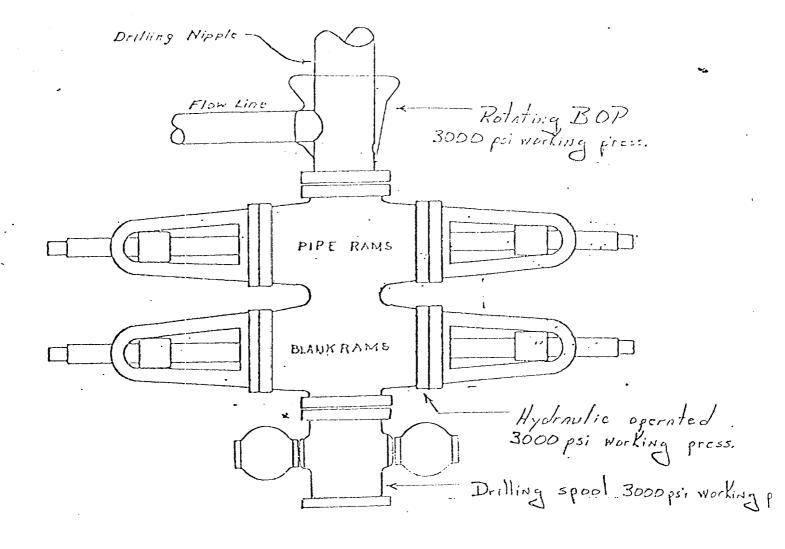
The preventer is 3000# working pressure and 6000# test.

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

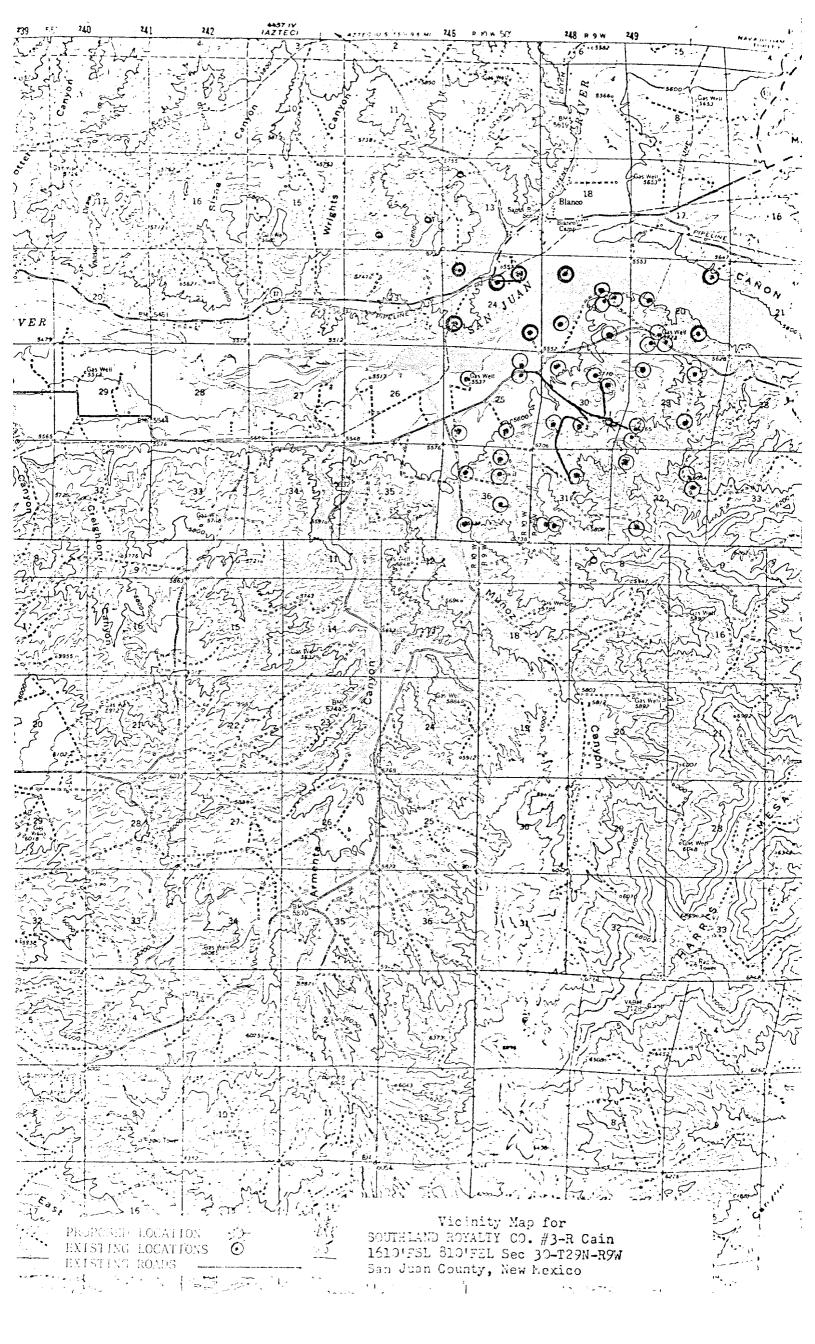
Yours truly,

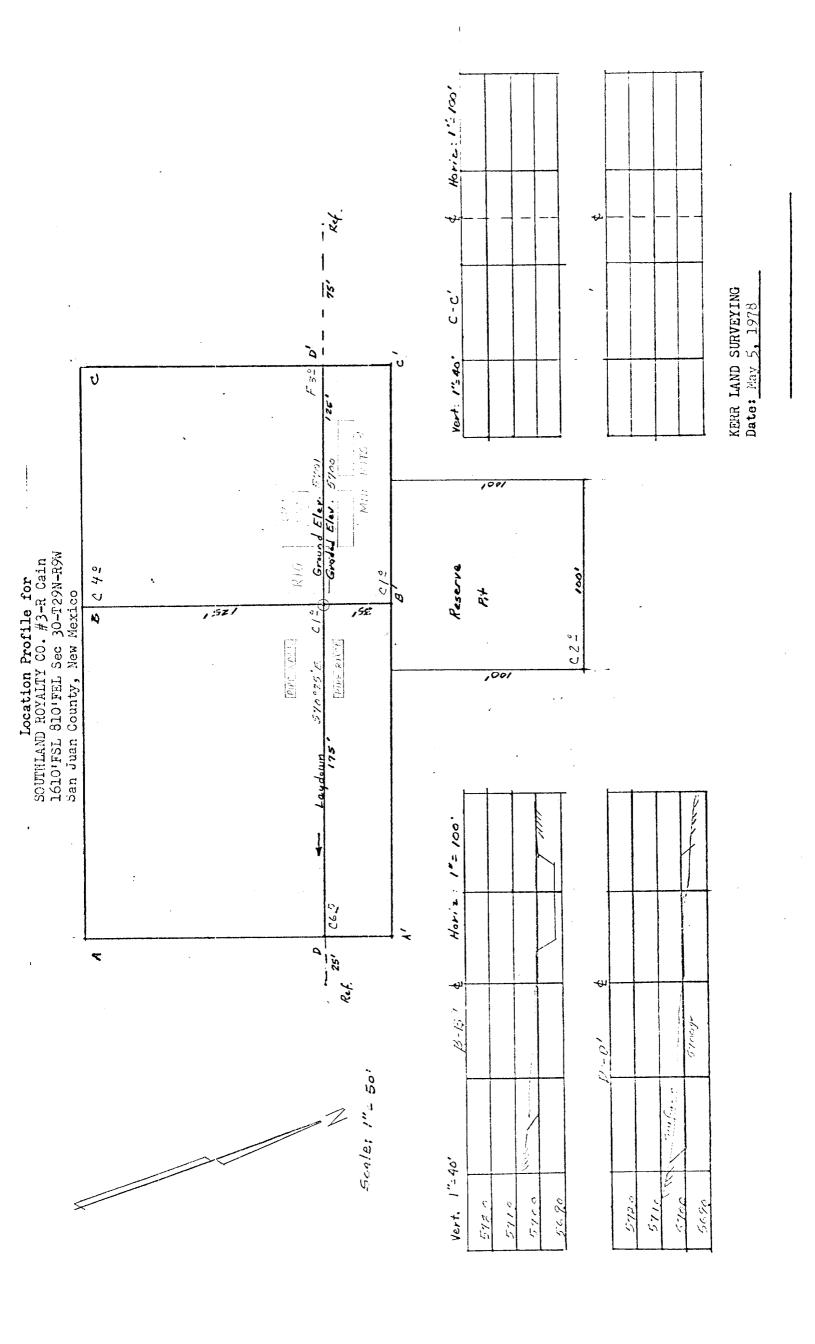
L. O. Van Ryan District Production Manager

LOVR/dg



Preventers and spools are to have through bore of 6" - 3000# PST or larger.





DRILLING SCHEDULE - Cain #3R

Location: 1690' FSL - 810' FEL, Section 30, T29N, R9W, San Juan County, New Mexico

Field: Blanco Mesa Verde Elevation: 5701' GL

Geology:

Formation Tops: Ojo Alamo	1068	Cliff House	3628
Fruitland	1758	Pt. Lookout	4320.
Pictured Cliffs	2042	Total Depth	4670
Intermediate	2292		

Logging Program: GR-Induction & GR-Density @ Total Depth

Coring Program: None

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

Total Depth. Gauge and record any increase in gas flow.

Drilling:

Contractor: Four Corners Drilling
Tool Pusher: Don Bettale
SRC Ans. Service: 325-1841
SRC Representative: Max Larson
Dispatch Number: 325-7391

Mud Program: Fresh water mud from surface to intermediate T.D. Air from

intermediate to Total Depth.

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade
	12 1/4	200'	9 5/8"	36#, K-55
	8 3/4	2292'	7 ''	20#, K-55
	6 1/4	2142-46701	4 1/2"	10.5#, K-55

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. 5-Pathfinder rigid centralizers.

Run float valve 2 joints above shoe. Run centralizers every other joint above shoe.

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

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

Tubing:

Wellhead Equipment: 9 5/8" x 10" 2000 casing head, 10" 2000 x 6" 2000 tubing head.

Cementing:

- 9-5/8" surface casing: 110 sacks (130 cu.ft.) Class "B" w/ 1/4# gel flake per sack and 3% CaCl₂. WOC 12 hrs. Test to 600# prior to drilling out.
- 7" intermediate casing: 125 sacks 50/50 Class "B" Poz w/ 6% gel mixed with 7.87 gals water per sack followed by 70 sacks Class "B" w/ 2% CaCl₂ (278 cu.ft.) WOC 12 hrs. Run temp survey 8 hrs. after plug down.
- 4-1/2" liner: Precede cement with 20 bbls. gel water. Cement with 270 sacks (442 cu.ft.) 50/50 Class "B" Poz w/ 6% gel, 1/4# gel flake per sack and 0.6% Halad 9 or equivalent.