SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-B1625.

# UNITED STATES DEPARTMENT OF THE INTERIOR

	Duaget	DUTERU	NO.	43-11630.
7	· - 10	₹6.	~)	364V

	GEOLO	GICAL SURV	EY			NM-0558140			
APPLICATION	6. IF INDIAN, ALLOTTED OR TRIBE NAME								
la. TYPE OF WORK		DEEPEN [		PLUG BA		7. UNIT AGREEMENT NAME			
	AS OTHER			INGLE MULTI	PLB 🔃	8. FARM OR LEASE NAME			
. NAME OF OPERATOR	X					La Jara Canyon			
Southland R	oyalty Company					9. WELL NO. #1A			
•	r 570, Farmingt	on, New Mex	cico		į	10. FIELD AND FOOL, OR WILDCAT Gobernador Pictured Clif			
LOCATION OF WELL (R At surface	eport location clearly and	in accordance wit	h any i	State requirements.*)		⊦Blanco Mesa Verde			
At Sullett	980' FNL & 955'	FWL				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			
At proposed prod. son	ne		Section 10, T29N, R5W						
	AND DIRECTION FROM NEAR					12. COUNTY OR PARISH   18. STATE Rio Arriba   New Mexico			
5 Miles n	ortheast of Gob	ernador, Ne		X1CO ), OF ACRES IN LEASE	17. NO. 0	OF ACRES ASSIGNED			
LOCATION TO NEARES' PROPERTY OR LEASE I (Also to nearest dr)	T Lin <b>e, f</b> t.				_	320 / 1 6 0			
8. DISTANCE FROM PROF. TO NEAREST WELL, D	OSED LOCATION*		19. PI	OPOSED DEPTH	20. ROTAL	RY OR CABLE TOOLS			
OR APPLIED FOR, ON TH			1 6	192'	<u>.l</u>	Rotary 1 22. APPROX. DATE WORK WILL START*			
6719' GR	edel Dr. Hi, dis, em,					June 1, 1979			
3.	P	ROPOSED CASIN	NG ANI	CEMENTING PROGR	AM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P	00Т	SETTING DEPTH		QUANTITY OF CEMENT			
12-1/4"	9-5/8"	36#	300'		-	9 cu. ft.			
8-3/4'' 6-1/4''	7''	20# 19:5#		3856' 3706'1-6192'		8 cu. ft. 0 cu. ft.			
Top of Ojo Fresh water An air syst It is antic It is antic It is expec on tim No abnormal	em will be used ipated that a G ipated that a G	t 2807'. ed to drill to drill f R-Density a R-Density a ell will be approvals, oisonous ga	From and a and a e dri	intermediate t n IES log will GR-Induction lled before Se	o total be run log wil ptember	at intermediate depth.  1 be run at total depth.  1, 1979. This depends			
	iffs gas is not		<u>-</u>	010	70	MAY 8 1979			
N ABOVE SPACE DESCRIBI one. If proposal is to reventer program, if an	t PROPOSED PROGRAM: If   drill or deepen directions	proposal is to deep lly, give pertinent	pen or I	on annuality locations a	present production measured	GEOLOGIOAL SURVEY  DELiverage and preposed new productive  and true vertical depths. Give blowout			
BIGNED	Van Kyar		L Di	strict Product	ion Man	ager DATE April 30, 1979			
(This space for Fede	ral or State office use)								
PERMIT NO.				APPROVAL DATE					
APPROVED BY		TIT	"LE			DATE			
CONDITIONS OF APPROV	AL, IF ANY:		. 2.						
ahsnah			Stat	ی د					

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

		. All distances must be	from the outer b	oundaries of t	he Section.		<del></del>				
Operator			Lease				Well No.				
SOUTHLAND ROYA	LTY COMPAN	<b>TY</b>	LA JAI	RA CANYON	<u></u>						
Unit Letter Sect		Township	Ronge		County		į				
נ   מ	.0	29N	5W_		RIO A	RRIBA					
Actual Footage Location	of Well:										
980 fee	t from the	lorth line on			from the	West	line				
Ground Level Elev.	Producing For		Pool Ur	y #	ر ب	-	Dedicated Acreage:				
6719		DE-Pictured Cli	ffs Blan	co-Gobern			320/160 Acres				
<ol> <li>Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).</li> </ol>											
dated by comm											
this form if nec	essary.)	ed to the well until	all interests h	ave been c	ons olidate	d (by com	munitization, unitization, approved by the Commis-				
	<del>T == =</del>	= -	1		1		CERTIFICATION				
955'	 		i i i			tained he	certify that the information con- rein is true and complete to the y knowledge and belief.				
	; +	· }				Name	Olan Kyan				
NM-05	58140		. l			Compony	t Production Manager				
	i i		į,			Southla	nd Royalty Company				
	l Se	ec.	1			Date April 3	0, 1979				
NM-0	558140	10				shown on notes of under my is true of knowledg  Date Survey Registrative and it Lan	Periodori Englisor d Surveyor  Kenny or				
0 330 660 90	1820 1650 19	80 2310 2640 2	000 1500	1000 5	•••		MERK. IN				

DITLLING SCHEDULE - LA JARA CANYON #1A

Location: 980' FNL & 955' FWL, Section 10, T29N, R5W, Rio Arriba Co., New Mexico

6719' GR Elevation: Blanco Mesaverde/Gobernador Pictured Field: Cliffs

Geology:

55531 Cliff House 2807' Ojo Alamo Formation Tops: 58421 Point Lookout 3349' Fruitland 6192' (Add 50' Total depth

3556% Pictured Cliffs 3856' Intermediate TD

if hole gets wet)

GR-Density and IES at intermediate total depth. GR-Density and GR-Induction at total depth.

Logging Program:

Coring Program: None

Gauge at last connection above Cliff House, Point Lookout Natural Gauges:

and total depth.

Gauge any increase in gas flow.

Drilling:

Tool Pusher: Contractor:

SRC Ans. Service: 325-1841 Dispatch Number: 325-7391 SRC Representative:

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

Air from intermediate to total depth.

Materials:

Wt. & Grade Casing Size Depth Hole Size Casing Program: K-55 36# 9-5/8" 12-1/4" 3001 K-55 20# 7" 38561 8-3/4" 10.5# K-55 4-1/2" 3706'-6192' 6-1/4"

Float Equipment:

9-5/8" Surface Casing: Pathfinder, type "A", guide shoe.

mids and Dothfinder calf\_fill

DITLLING SCHEDULE - LA JARA CANYON #1A

Location: 980' FNL & 955' FWL, Section 10, T29N, R5W, Rio Arriba Co., New Mexico

6719' GR Elevation: Blanco Mesaverde/Gobernador Pictured

Geology:

55531 Cliff House 28071 Formation Tops: Ojo Alamo 58421 33491 Point Lookout Fruitland 6192' (Add 50' 3556% Total depth

Pictured Cliffs 3556'. Intermediate TD 3856'

if hole gets wet)

GR-Density and IES at intermediate total depth. GR-Density and GR-Induction at total depth.

Logging Program:

Coring Program: None

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

Gauge any increase in gas flow.

Drilling:

Tool Pusher: Contractor:

SRC Ans. Service: 325-1841 325-7391 Dispatch Number: SRC Representative:

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

Air from intermediate to total depth.

Materials:

Casing Size Wt. & Grade Depth Casing Program: Hole Size 36# K-55 9-5/8" 3001 12-1/4" 20# K-55 7" 8-3/4" 38561 10.5# K-55 3706'-6192' 4-1/2" 6-1/4"

Float Equipment:

9-5/8" Surface Casing: Pathfinder, type "A", guide shoe.

7" Intermediate Casing: Pathfinder, type "A", guide shoe. Pathfinder self-fill insert float valve. Five (5) Pathfinder rigid centralizers.

Run float 2 joints above shoe. Run centralizers every

other joint above shoe.

4-1/2" Liner: Pathfinder, type "AP", guide shoe. Pathfinder, type "A", flapper

float collar. Liner hanger will have PBR.

Tubing:

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

Cementing:

160 sx Class "B" with 1/4# gel flake 189 cu. ft. 9 5/8" surface casing: per sack and 3% CaCl, (100% excess).

120 sx 50/50, Class "B", Poz with 6% 7" Intermediate casing: 238 cu. ft. gel. Mix with 7.2 gals water per sack to weigh 12.85 ppg. Tail in with 50 sacks of Class "B" with 2% CaCl2. If lost circulation occurs, add 1/4# cello flake per

sack (50% excess to cover Ojo Alamo).

440 cu. ft. Precede cement with 20 bbls. gelled water. Cement with 295 sx of 50/50, Class "B", Poz with 6% gel, 1/4# cello flake and .6% Halad 9. Mix cement with 7.2 gals water per sack 4 1/2" liner: to weigh 12.85 ppg (70% excess). If hole gets wet and mist drilling is required, use 100% excess to circulate liner.

( 350 sx)



April 30, 1979

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 La Jara #1A 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, pipe racks and cut required to build this location.

Water supply will be La Jara Wash . All water will be transported by truck and stored on location.

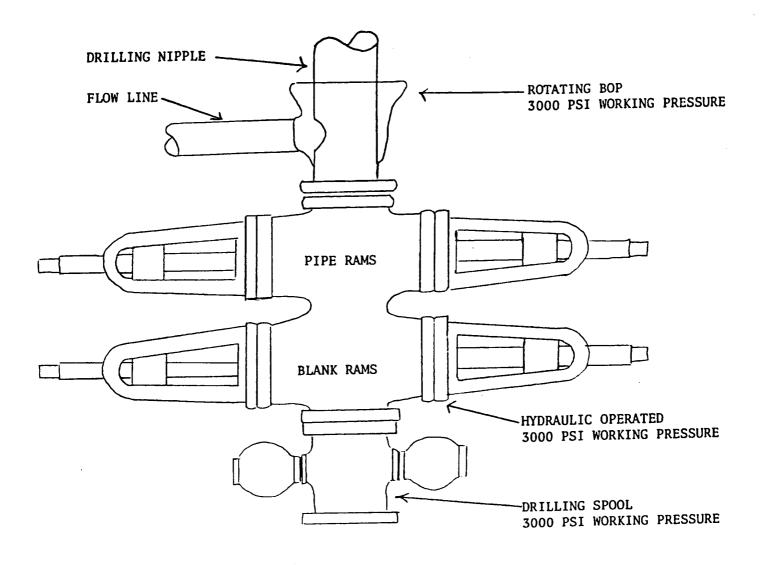
The location will be restored according to Bureau of Land Management standards. This work will begin when all related construction is finished.

Mr. Ross Lankford will be Southland Royalty Company's field representative supervising these operations.

Yours truly,

L. O. Van Ryan District Production Manager

LOVR/dg



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



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

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 throughly 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 1809 Durango, Colorado

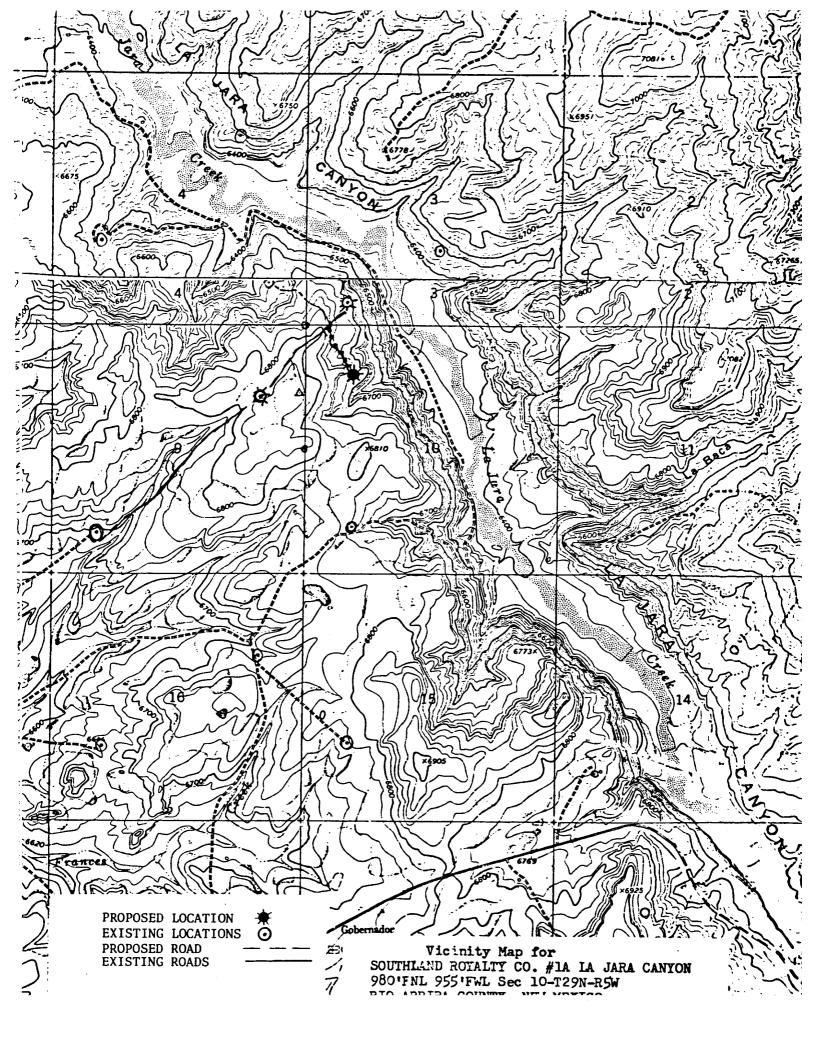
Attention: Mr. Jerry Long

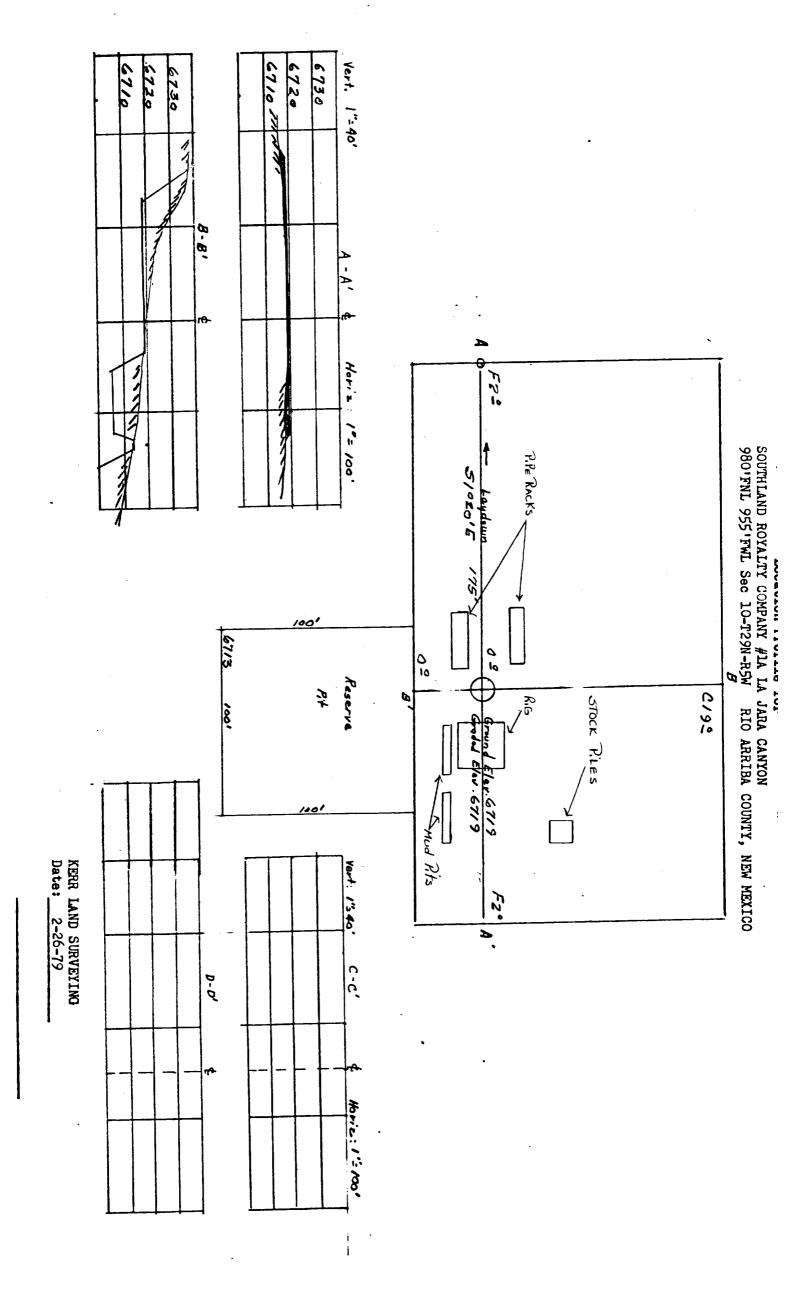
Dear Sir:

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: April 30, 1979 Name: Fun 1970

Title: District Production Manager





## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL

PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON\*

Dec. 1973	Budget Buleau No. 42-11424					
UNITED STATES DEPARTMENT OF THE INTERIOR	5. LEASE NM-0558140					
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a difference of the control of	7. UNIT AGREEMENT NAME					
reservoir. Use Form 9-331-C for such proposals.)	8. FARM OR LEASE NAME					
1. oil G gas 67	La Jara Canyon					
well well to other	9. WELL NO.					
2. NAME OF OPERATOR	#1A					
Southland Royalty Company 3. ADDRESS OF OPERATOR	- Gobernador Pictured Cliffs Blanco Mesa Verde					
P. O. Drawer 570, Farmington, NM 87401	11. SEC., T., R., M., OR BLK. AND SURVEY OR					
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	7 AREA					
below.)	Section 10, T29N, R5W					
AT SURFACE: 980' FNL & 955' FWL	12. COUNTY OR PARISH 13. STATE					
AT TOP PROD. INTERVAL:	Rio Arriba NM					
AT TOTAL DEPTH:	14. API NO.					
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE						
PEPORT OR OTHER DATA	15 ELEVATIONS (CHOW DE KOR AND WO)					

(NOTE: Report results of multiple completion prozone change on Form 9-330.)

6719' GR

(other) Extension 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent date including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations an measured and true vertical depths for all markers and zones pertinent to this work.)\*

Southland Royalty Company hereby requests an extension for the drilling of this well.

SUBSEQUENT REPORT OF:

RECEIV	'ED
--------	-----

SEP 1 5 108 )

U. S. CEOLOCICAL SURVEY FARMINGTON, N. M.

Extension approved to 12/8/80

Subsurface Safety Valve: Manu. and Type	e	·	Set @	Ft.
18. I hereby certify that the foregoing is	true and correct			
SIGNED	TITLE District	Engineer DATE	3-11-80	
	(This space for Federal or S	itate office use)		
APPROVED BY CONDITIONS OF APPROVAL DAY:	TITLE	DATE		<del></del>
SEP 1 6 1980				
1 Summer / Samuel		- 614-		

See Instructions on Reverse Side

TOYDISTRICT ENGINEER

# UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

Form 9–331 Dec. 1973	Form Approved. Budget Bureau No. 42–R1424
UNITED STATES	5. LEASE
DEPARTMENT OF THE INTERIOR	NM-0558140
GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUNDRY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT NAME
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	8. FARM OR LEASE NAME
1. oil gas 🔽	La Jara Canyon
well well other	9. WELL NO.
2. NAME OF OPERATOR	1-A
Southland Royalty Company 3. ADDRESS OF OPERATOR	10. ELLID OR WILDCAL NAME Gobernador Pictured Cliffs Blanco Mesa Verde
P.O. Drawer 570, Farmington, NM 87401	11. SEC., T., R., M., OR BLK. AND SURVEY OR
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA Section 10, T29N, R5W
below.) AT SURFACE: 980' FNL & 955' FWL	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL:	Rio Arriba New Mexico
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
CURCIONENT REPORT OF	6719' GR
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:  TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion of zene change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stat including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertinent.)	rectionally drilled, give subsurface locations and it to this work.)*
K-55 casing set at 314'. Cement with 1/4# flocele per sack and 3	joints (301.08') of 9-5/8", 32.30#, ted with 160 sacks of Class "B" % CaCl <sub>2</sub> . Plug down at 9:15 P.M. rculate. Cemented down outside

2. NAME OF OPERATOR	1-A
Southland Royalty Company	10. ELLD OR WILDCAL NAME Gobernador Pictured Cliffs
3. ADDRESS OF OPERATOR	Blanco Mesa Verde
P.O. Drawer 570, Farmington, NM 87401	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17	Section 10, T29N, R5W
below.) AT SURFACE: 980' FNL & 955' FWL	12. COUNTY OR PARISH 13. STATE
AT TOP PROD. INTERVAL:	Rio Arriba New Mexico
AT TOTAL DEPTH:	14. API NO.
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,	
REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD)
	6719' GR
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:  TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion of zame change on Form 9–330.)
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state including estimated date of starting any proposed work. If well is dimeasured and true vertical depths for all markers and zones pertinen	rectionally drilled, give subsurface locations and
K-55 casing set at 314'. Cement	joints (301.08') of 9-5/8", 32.30#, ed with 160 sacks of Class "B" & CaCl <sub>2</sub> . Plug down at 9:15 P.M. rculate. Cemented down outside "B" with 1/4# flocele per sack
$f(\cdot)$	
Subsurface Safety Valve: Manu. and Type	Set @ Ft.
18. I hereby certify that the foregoing is true and correct	
Digt Brod A	Mar 12-12-80
SIGNED Jan Lyan TITLE Dist. Prod. M	161. DATE

\*See Instructions on Reverse Side

ACCEPTED FUR HELUND (This space for Federal or State office use)

APPROVED BY CONDITIONS OF APPROVALZIFIED

EARMINGTON DISTRICT

5. LEASE

# UNITED STATES

1	DEPARTMENT OF	THE INTERIOR	NM-0558140				
	GEOLOGICAL	SURVEY	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME			
SUNDRY	NOTICES AND	REPORTS ON WELLS	7. UNIT AGREEMENT N	AME			
(Do not use this for reservoir. Use Form	rm for proposals to drill   9–331–C for such propos	or to deepen or plug back to a different sals.)	8. FARM OR LEASE NAM	1E			
1. oil 🖂			La Jara Canyo	<u>n</u>			
well	well XX other		9. WELL NO.	2 - 1			
2. NAME OF			1-A				
Southland 3. ADDRESS C	Royalty Comp of OPERATOR	oany	10. EIELD OR WILDCAT N GODERNAGOT Pid Blanco Mesa V	erae			
P.O. Dra	wer 570, Farm	ington, N.M. 87401	11. SEC., T., R., M., OR E	BLK. AND SURVEY OR			
	OF WELL (REPORT L	OCATION CLEARLY. See space 17	Section 10, T2	9N R 5W			
below.)	E: 980' FNL &	955' FWL	12. COUNTY OR PARISH				
	OD. INTERVAL:		Rio Arriba	New Mexico			
AT TOTAL D	DEPTH:		14. API NO.				
16. CHECK APP	PROPRIATE BOX TO	INDICATE NATURE OF NOTICE,					
REPORT, O	R OTHER DATA		15. ELEVATIONS (SHOW	DF, KDB, AND WD)			
REQUEST FOR	ADDDOVAL TO:	SUBSEQUENT REPORT OF:	6719' GR				
TEST WATER SI FRACTURE TRE. SHOOT OR ACII REPAIR WELL PULL OR ALTEI MULTIPLE COM CHANGE ZONES ABANDON* (other) Cas	HUT-OFF   AT   DIZE   D	PLETED OPERATIONS (Clearly state	(NOTE: Report results of mochange on Form 9-	give pertinent dates,			
	. Lime ahead data of ctart	ting any proposed work. If well is d is for all markers and zones pertiner	irrectionally diffied, give soc	surface locations and			
12/10/80	Cemented wit per sack and Plug down at	(3893.80') of 7", 23#, h 120 sacks of Class "E 6% gel followed by 50 s 10:00 A.M. 12-10-80.	3" 50/50 Poz with 1 sacks of Class "B" Top of Cement at	1/4# flocele with 2% CaCl <sub>2</sub> . 1750'.			
12/14/80	to 62221. Cer	(2512.01') of 4-1/2", 1 mented with 350 sacks o e per sack and .6% Hala	of Class "B" 50/50	Poz with 6% gel			
Subsurface Safe	ety Valve: Manu. and T	ype	Set	@ Ft.			
10 I haraby car	tify that the foregoing	r is true and correct					

TITLE Drilling Clerk December 15, 1980

ACCEPTED FUR RECURD This space for Federal or State office use) APPROVED BY CONDITIONS OF APPROVALZIZATION

Form Approved.

Dec. 1973		Budg	et Bureau No. 42-R1424			
<b>Dec. 1373</b>	UNITED STATES	5. LEASE				
	DEPARTMENT OF THE INTERIOR	NM-0558140				
	GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME			
SUNDE	RY NOTICES AND REPORTS ON WELLS	7. UNIT AGREEMENT N	AME			
(Do not use th reservoir. Use	his form for proposals to drill or to deepen or plug back to a different Form 9–331–C for such proposals.)	8. FARM OR LEASE NAM	ME			
1. oil —	gas	La Jara Canyo	<u>n</u>			
well	gas kl other	9. WELL NO.				
	OF OPERATOR	1-A				
	nd Royalty Company	10. EIELD OR WILDCAL I	ctured Cliffs			
	SS OF OPERATOR	Blanco Mesa V				
P.O. DI	rawer 570, Farmington, N.M. 87401 ON OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA				
below.)		Section 10, T2				
AT SUR	FACE: 980' FNL & 955' FWL PROD. INTERVAL:	12. COUNTY OR PARISH Rio Arriba	13. STATE New Mexico			
	AL DEPTH:	14. API NO.				
	APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, I, OR OTHER DATA	15. ELEVATIONS (SHOW 6719' GR	/ DF, KDB, AND WD)			
REQUEST F	OR APPROVAL TO: SUBSEQUENT REPORT OF:					
TEST WATE	R SHUT-OFF					
FRACTURE SHOOT OR						
REPAIR WE		(NOTE: Report results of m	ultiple completion or zone			
	LTER CASING	change on Form 9-	-330.)			
MULTIPLE C						
ABANDON* (other)Per	foration & Stimulation X		- 1 3 3 M			
17. DESCRI	<b>duction Tubing Report X</b> IBE PROPOSED OR COMPLETED OPERATIONS (Clearly stangled by the standard of starting any proposed work. If well is red and true vertical depths for all markers and zones pertines.	miechonamy dimed, Evec 30.	I give pertinent dates, bourface locations and			
1/5/81	Perforated Mesa Verde at 5706', 5721', 5894', 5900', 5909', 5923', 5929', 5935'	, 5779', 5861', 5866 , 5941', 5949', 595	6', 5872', 5878', 7'. 16 holes.			
1/6/81	Frac'd Mesa Verde with 100,200 gallon 20/40 sand. AIR 32 BPM, ATP 1600 preforated Pictured Cliffs at 3709, 37 3574, 3580, 3588, 3596, 3656, 3664 Total of 16 holes. Frac'd Pictured Cliffs	osi, ISIP 120 psi. 18′, 3726′, 3734′, 3 , 3672′, 3680′, 368	3556', 3564', 8', 3695'.			
1/11/81	162,000# of 20/40 sand. AIR 37 BPM, Landed 185 joints (5761') of 2-3/8", 4 Model "R" packer set at 3926'. Landed 75 joints (3653') of 1-1/2", 2.	ATP 1200 psi, IS 7#, J-55 tubing at	IP 570 psi. t 5956'.			
Subsurface	Safety Valve: Manu. and Type					
	y certify that the foregoing is true and correct					
SIGNED	TITLE Drilling Cles (This space for Federal or State of	ck dateJanuar	y 12, 1981			
	(This space for Federal or State o	ffice use)				
	TIT1 F	DATE				
APPROVED E	BY TITLE					





February 24, 1981

Oil Conservation Division 1000 Rio Brazos Road Aztec, NM 87410

#### Gentlemen:

The following is the deviation record for Southland Royalty Company's La Jara Canyon #1A well located in Section 10, T29N, R5W, Rio Arriba County, New Mexico.

Depth	Deviation	<u>Depth</u>	Deviation
320' 794' 1295' 1890' 1991' 2487'	1 1/2 1 1/4 1 1/4 1 1/4 1	3175' 3646' 3856' 4397' 4801' 5000'	1 1 1/4 2 2 1 3/4 1
		5527 <b>'</b>	1

Sincerely,

SOUTHLAND ROYALTY COMP

L. O. Van Ryan District Production Manager

State of New Mexico County of San Juan

The foregoing instrument was acknowledged before me this 27 1981, by L. O. Van Ryan of Southland Royalty Company on behalf of said Company NOTARY BOND FILED WITH SECRETARY OF STATE D. Edwards Krista D. Edwards

My Commission Expires: 7-29-84

P.O. DRAWER 570 (505) 325-1841 FARMINGTON, NEW MEXICO Public - NM

# OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

#### P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-122 Revised 10-1-78

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Tvo	• Test			<del></del>					· · · I	Test Date				
179		] Initio	1]	(	Annual			Spec	cial	1-21-8	31			
	pany			<del> </del>	Conne			<del></del>	1	<del></del>			··	
Poo		d Roy	alty	Company	Forma	Nort	hwest	Pipelir	ne C	orporati	on	Unit		
	Blan	ico					Verde							
Соп	pletion Date	•		Total Depth		1	Plug Back	TD		Elevation		Farm o	r Lease Na	me
	1-2-81			6242'	Set At 389		6179'			6719' G	R	La .	Jara Ca	nyon
Csq 7.	. Size 000 500 . Size	10	3# 1	6.366	3608162	0'	Perloration From	ns:	То	•			s. 1A	
The	. Sizo	W1.	311	4.0 <u>32</u> d	3698-62 Set At	.22	Perforation	18:		<del></del>		Unit	Sec.	Twp. Rye.
	375	4.7		1.995	5956'		From 57	06'		5957 <b>'</b>		D	10	29N 5W
TYP				- G.C. or G.				Packer Se				County	a Arrib	
Fro	Multip	le –	GG Reserve	oir Temp. *F	Mean An	nual '	Temp. *F	Baro, Pre	39) 88. –	26' Pa		State	o Arrib	)a
-	bg		i	ρ								Ne	w Mexic	:0
	L	н		Gq	% CO 2		% N 2		. 2 ж н <sub>2</sub> s	Pro	AGL	Meler	Run	Taps
				.700		<del></del>					r	1		L,
	Prover		FL	OW DATA	Diff.		Temp.	TUB		Temp.	Pre:	ASING	DATA Temp.	Duration
۷0.	Line Size	x	Size	p.s.i.g.	h <sub>w</sub>		°F	p.s.i.q	-	•F	. p.s.		°F	Flow
SI								998						
1.	2" x	3/4"			_			173						1 hr.
2. 3.						$\dashv$		144_ 132		<del> </del>				2 hrs. 3 hrs.
4.						-		132					<del></del>	J. DES.
5.														
			<del></del>		RATE	E OF	FLOW	CALCUL	ATIC	DNS	<del></del>		<del></del>	
	Coeffi	cient	_	$\sqrt{h_{w}P_{m}}$	Prese	sure		Temp. actor		Gravity Factor	į.	Super mpress.	R	ale of Flow
vo.	(24 H	our)		V "wFm	P	n,	1	Ft.		Fg		tor, Fpv		Q, Mcfd
1	12.36	5			144	. 2	1.0000 9258		258	1.0000		1651		
2.			<del> </del>			<u>-</u>					<del>                                     </del>			
3.							<del></del>				6	<del>crt</del> i	11	
4. 5.			-				1						ALD.	
	P <sub>t</sub>	Temp	. • B	T <sub>t</sub>	z	Gas I	Liquid Hyd	irocarbon F	latio _		1 100	: D	4004	Mc/bbl.
۷٥.							•	of Liquid H			MA		1981	Deg.
2.		-					Itic Gravity Separator Gas OIL CON COMMXXXXXXX						XXXXX	
3.	. —	1						Gravity Flowing Fluid X X X X DIST. 3 Pressure P.S.I.A P.S.I.A.						
4.							cal Tempe							R
5.	1010 0		10005							<del></del>				
P <sub>C</sub>	1010.2 P. <sup>2</sup>	Pc P	10205	040 P <sub>w</sub> <sup>2</sup>	$P_c^2 - P_w^2$	(1)_	P <sub>C</sub> 2	<u> </u>	.020	08	(2)	P <sub>c</sub> <sup>2</sup>	_ " = _1	.0156
1		<del></del>		0793.6	99710.4		$P_c^2 - P_w^2$				Ľ,	e² - <b>©²</b>	٦	
2							г	_ 2	٦.	•				
3	<del></del>	-				AOF	= Q	-2 °	-   " =	1677	<del></del>	•		
5							L	Pc* - Pc*	١					
			1		l.									75
Abso	olute Open I	Flow	1677				McId (	9 15.025	Angle	of Slope O			Slope	. n <u>. 75</u>
Rem	ark # :													
								<del></del>						
Åррі	oved By Di	vision		Conduct	•		1	Calculated				Checked	•	
	Don Thompson James Smith L.O. Van Ryan													

STATE OF NEW MEXICO

# P. O. BOX 2088 ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Form C-122 Revised 10-1-78

#### MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Тур	7081 X	X Initial	ıl		Anr	nual	ral Special Test Date 1-28-81											
	npany	1 Pour	. 1 4 17	Company	•	Connection	orthwest Pipeline Corporation											
Poo		d Koya	ilty	Company		NOTE:		SL I	Треттис		rpora	TIOL	1	Unit				
G	Gobernad					i e	ctured Cliffs							i				
	npletion Date	,		Total Depth 6242	-			ug Back 6179			Elevation 6719		R		or Lease N ara Can			
Csq	. Size	wi. 23	3#	d 6.366	Set A	N 38901	Per	erloratio		1			<u>`</u>	Well No	lo.			
7.	000 500 5120	10.5		4.052	3698	8'-6222 \(	IF II	rom	<del></del>	To	<u> </u>			# Unit	IA Soc.	Twp		Rges
	.900	2.76	1	1.610		553'	Fr	rom 3		T	• 373	34 <b>*</b>		D	10	291		5W
TYP		yle – Brod	denhead	- G.G. or G.G	O. Multi	ipl•	<b></b>		Packer Se					County				
**roc	Mult	iple -		voir Temp. °F	Тм	ean Annual	Te	mp. °F	Baro. Pre	9261	. P_			R State	Rio Arr	<u>iba</u>	<del></del>	
-	bg			<b>6</b>					12.2	2					New Mex	ico		- <del></del> -
	L	н		.700	%	co <sub>2</sub>		% N 2	1	% H <sub>2</sub> S	,	Prover		Meter Run		Taps		
			FL	LOW DATA	<del></del>		_		TUE	ING	DATA	$\Box$	CA	SING	DATA		Durat	ition
νО.	L. 2115	¥		Press.	T			remp.	Press		Temp.		Press.		Temp.	,	of Flow	
SI	Size		2166	h.s	+	h <sub>w</sub>	-		1110				1110		<del> </del>	+		***
1.	2" <u>x</u>	3/4" -		<b>†</b>	士				236				790			1	1 hi	
2.			<u>-</u>		<u> </u>		$\overline{\square}$		177				684		<u> </u>	+	2 h	
3. 4.	<del> </del>			<del> </del>	-				152	<del> </del>	-	+	629		<del> </del>	+	3 h	rs.
5.	·				+_				<u> </u>		+	1				士		
<u> </u>					<del></del> _	RATE O	FF	LOW	CALCUL	ATIC	SNC				<del></del> -			
_	Coeffic	cient	T _	_ /		Pressure			w Temp.		Gravity Factor	•		Super	1	يسور	of Flow	w
NO.	(24 Ho	our)		¬Vh <sub>w</sub> P <sub>m</sub>		P <sub>m</sub>			actor Ft,	· ·		Factor		Compress, Factor, Pop		休	ME	
1	12.36	5	厂			164.2	コ	1.	0000	.9	258	258		000 1		88	<u>.D7</u>	
2.			Ī		-		+	ı <del></del>		-			<del> </del>	1-	MAR 3	3 198	য়	1
3. 4.			<del> </del>		+		+			-			<del> </del>	1	L CON.			<del> </del>
5.					工		$\Box$							Tan	DIST			
٧٥.	P <sub>t</sub>	Pt Temp. *R		Tr	z	' B			drocarbon P						<u> </u>		_	(∕ры.
1.		+				1	A.P.I. Gravity of Liquid Hydrocarbons  Specific Gravity Separator Gas								T <sub>X</sub> X	Y X Y	<u> </u>	Deg. XX
						Spec	Specific Gravity Flowing Fluid XXXXX									<u></u>	<del></del>	
<ol> <li>3.</li> <li>4.</li> </ol>		<u> </u>	_			Criti	tical	l Pressu	ure					_ P.S.I.			P.S	
<b>4</b> . <b>5</b> .		+				Criti	ical	Temper	erature						_R			R
P <sub>C</sub>	1122.2	$\frac{1}{P_c^2 1'}$	25933	32.8				p_ 2		1 /	217	<del></del>	٢	P_2	٦'n	1 3	202	
100	P <sub>1</sub> <sup>2</sup>	P <sub>w</sub>		Pw <sup>2</sup>	$P_c^2 - F_c^2$	$\frac{P_{w}^{2}}{2}$ (1)		$\frac{\cdot c}{L^2 - R_s^2}$	<u> </u>	1.4	847		(2) F	12 - F	<u>-</u> -  = -	1.0	<u> 192</u>	
1 2		641.	.2 4	411137.48	34819:	5.4												
3		+				AOF	F = (	، [_	Pc2	٦'n,	_ 263	31						
4						$\Box$	-	Ĺ	Pc2 - Rw2	$\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = \frac{2631}{1600}$								
5																		
	olute Open F	'low	2631					_ McId (	€ 15.025	Angle	e of Slop	pe ⊕ _			Slop	0, n_	.85	
Hem	orks:																	
								<del></del> -		· n				Checked	1 344			
Аррг	roved By Div	vision.		Conducti	-	Thompson	'n		Colculated James						Van Ry	/an		