SUBMIT IN TRIPLICATE*

Form approved, Budget Bureau No. 42-R1425.

(Other instructions on reverse side)

841 BIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR	(Other instructions on reverse side)	30 - 039 - 2/ 5. LEASE DESIGNATION AND SEE
GEOLOGICAL SURVEY		Jicarilla 101

	GEOLO	GICAL SURV	EY			Jicarilla 10	1
APPLICATION	FOR PERMIT	O DRILL, I	DEEP	EN, OR PLUG B	ACK:	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
a. TYPE OF WORK	LL 🖾	DEEPEN [PLUG BAC		7. UNIT AGREEMENT N	NAME
OIL CA	S OTHER			ingle X Multip	LE [8. FARM OR LEASE NA	ME
WELL LJ W	ELD (X.) OTHER		20	JAE LJ ZUAR		Jicarilla 10	1
Southland Roy	alty Company					9. WELL NO.	
ADDRESS OF OPERATOR						#6	
P. O. Drawer	570, Farmington	ı, New Mexi	со			10. FIELD AND POOL, O	OR WILDCAT
4 + cu = fo oc	eport location clearly and		th any S	State requirements.*)		Basin Dakota	
1	820' FSL & 1185	5' FEL				11. SEC., T., E., M., OR AND SURVEY OR A	BLK.
At proposed prod. zon	e					Section 1, T	
4. DISTANCE IN MILES A	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFIC	E*		12. COUNTY OR PARISH	13. STATE
40 miles sout	h/southwest of	Dulce, New	Mex:	ico		Rio Arriba	New Mexi
5. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		16. No	O. OF ACRES IN LEASE		OF ACRES ASSIGNED	
PROPERTY OR LEASE L	INE, FT.				1.0 1	HIS WELL F	اک
8. DISTANCE FROM PROP	OSED LOCATION*		19. Pi	ROPOSED DEPTH	20. ROTA	HY OR CABLE TOOLS	
TO NEAREST WELL, DI OR APPLIED FOR, ON THE				8303'		Rotary	
1. ELEVATIONS (Show whe	ether DF, RT, GR, etc.)		·		<u> </u>	22. APPROX. DATE WO	ORK WILL START*
7139'						August 1, 19	78
3.	I	PROPOSED CASI	NG ANI	CEMENTING PROGRA	M		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH	<u> </u>	QUANTITY OF CEME	NT
12-1/4"	9-5/8"	36#		200'		130 cu. ft.	
8-3/4"	7!!	23#		4180'		486 cu. ft.	
6-1/4"	4-1/2"	10.50#		4030'-7000'		666 cu. ft.	
	4-1/2"	11.60#		7000'-8303'	l		
Top of Ojo A. Top of Pictur Fresh water in An air system It is expected No abnormal pictur It is expected depends Gas is dedicated GABOVE SPACE DESCRIBE	n will be used ed that a GR-De pressures or po ed that this we on time requirated. PROPOSED PROGRAM: If drill or deepen directions	t 3880'. d to drill to drill francity and a isonous gas ell be drill ed for appr	rom i a GR- ses a led b roval	a surface to intermediate dep Induction log bare anticipated before December s, rig availabi	th to e run in thi 31, 19 lity a	total depth. at total depth s well. 78. This nd the weather JUL 1	0 1978
4. SIGNED (This space for Fede	lan ke	Jan TH	Di	strict Producti	on Man	ager July	3, 1978
				APPROVAL DATE		EBEIVE	
CONDITIONS OF APPROV	AL, IF ANY:	TIT	TLE			DATE	
of Z.	<u>l</u>					JUL 7 1978	

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. Operator SOUTHLAND ROYALTY COMPANY JICARILLA 101 Section Township County Unit Letter Ι 26N Rio Arriba Actual Footage Location of Well: 1820 feet from the South feet from the East Dedicated Acreage: Ground Level Elev. Producing Formation Dakota 320./Z 71.39 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? 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-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Position District Production Manager Southland Royalty Company July 3, 1978 Sec 1 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or 11851 under my supervision, and that the same is true and correct to the best of my knowledge and belief. and/or

1980

1320 1650

330

660

2310

2000

1000



June 3, 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 Jicarilla 101 #6 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 water holes along Tapacitos Creek. 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. Max Larson will be Southland Royalty Company's field representative supervising these operations.

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:	July 3, 1978	Name: CC Parson
		Title: District Engineer



July 3, 1978

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.

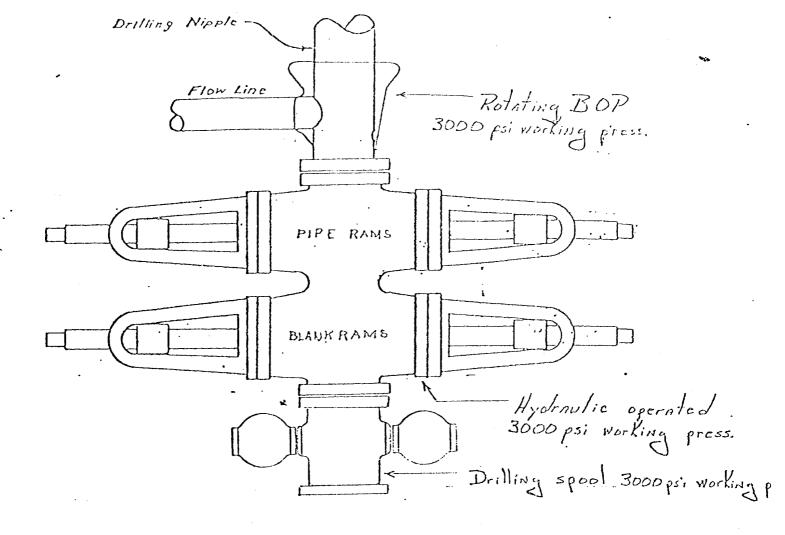
The preventer is 3000# working pressure and 6000# test.

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

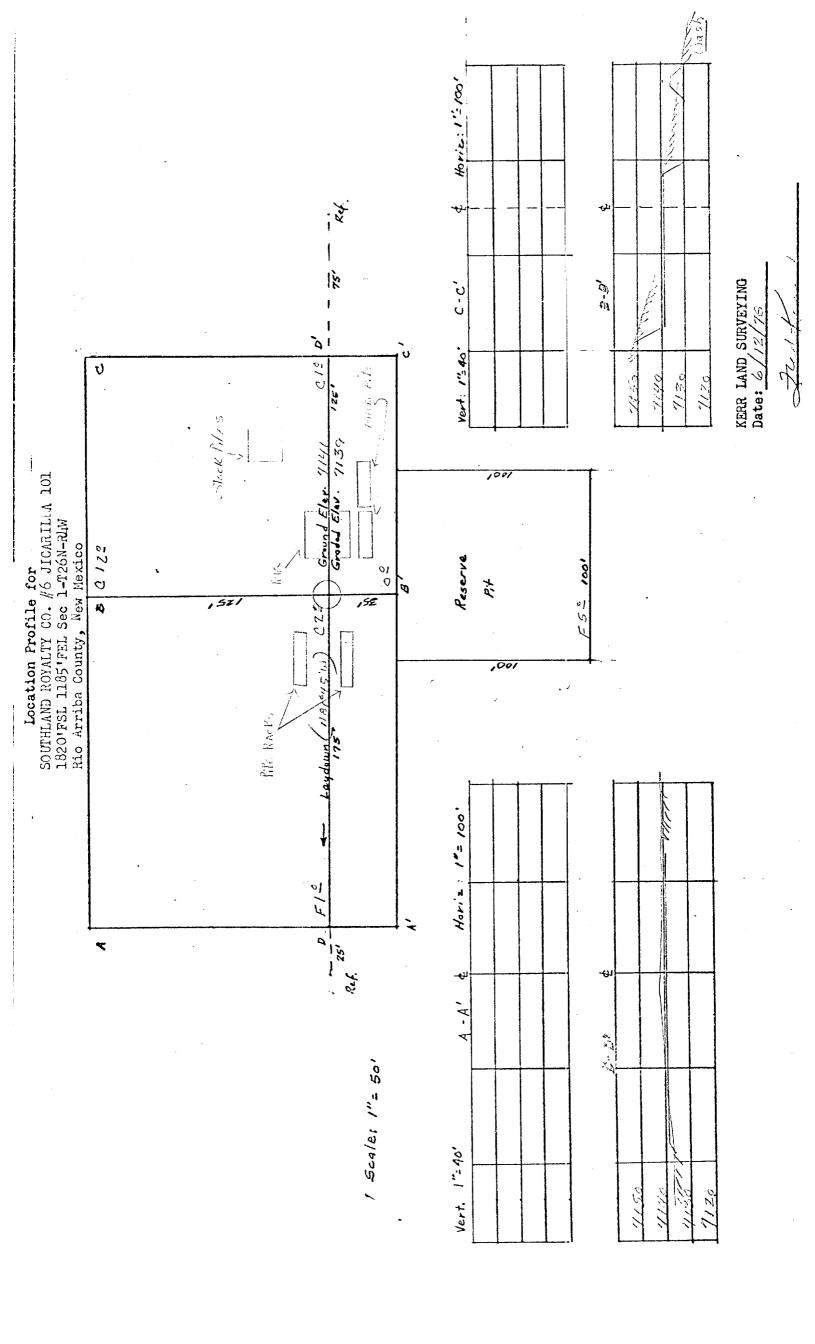
Yours truly,

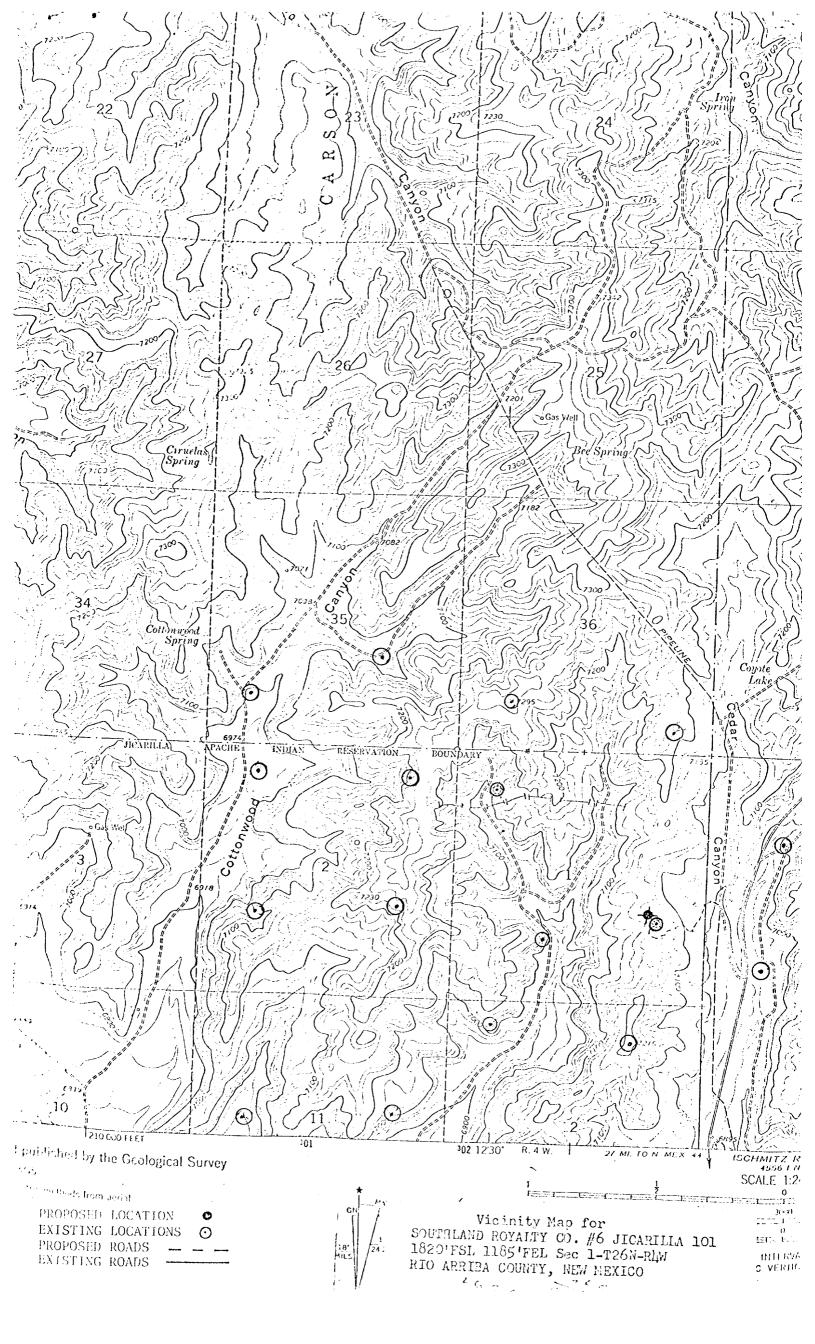
L. O. Van Ryan
District Production Manager

LOVR/dg



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





DRILLING SCHEDULE - JICARILLA 101 #6

Location: 1820' FSL & 1185' FEL, Section 1, T26N, R4W, Rio Arriba, New Mexico

Field: Basin Dakota Elevation: 7152' KB

Geology: Formation Tops

Ojo Alamo	1997'	Point Lookout	6035
Fruitland	3742'	Gallup	70141
Pictured Cliffs	3 880'	Graneros	8081'
Intermediate	4180'	Dakota	81681
Cliff House	5565'	Total Depth	83031

Logging Program: Gamma Ray Density and Gamma Ray Induction at Total Depth.

Coring Program: None

Natural Gauges: Gauge at Total Depth. Also gauge any noticeable increases

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

morning report.

Drilling:

Contractor: Tool Pusher:

SRC Representative: SRC Answ. Service: 325-1841

Dispatch Number: 325-7391

Mud Program: Fresh water mud to intermediate. Pretreat with 5% LCM @ 3700'.

Air from intermediate to total depth.

Materials:

Casing Program:	asing Program: Hele Size		Casing Size	Wt. & Grade
	12 1/4"	200'	9 5/8"	36# K-55
	8 3/4"	4180'	7"	23# K-55
	6 1/4"	4030' - 7000'	4 1/2"	10.5# K-55
	-	7000! - 8303!	4 1/2"	11.6# K-55

Float Equipment:

9 5/8" surface casing - Pathfinder type "A" guide shoe.

7" intermediate casing- Pathfinder type "A" guide shoe. Howco self-fill insert float valve. 5 Pathfinder rigid centralizers. Run float valve 2 jts. above shoe. Run centralizers every other joint above shoe.

4 1/2" liner - TIW liner hanger with PBR and neoprene pack-off. Pathfinder type AP guide shoe and type "A" float collar.

Tubing:

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

10", 2000# X 6", 2000# tubing head with donut for 2 3/8"

tubing.

- 9 5/8" surface casing 120 sx. Class "B" with 3% CaCl $_2$ (130 cu. ft.) WOC for 12 hours. Test to $600\,^2\mathrm{psi}$ before drilling out.
- 7" intermediate casing- 272 sx. 50/50 poz with 6% gel and .6% Halad 9 (12.8 PPG) followed by 70 sx. of Class "B" with 2% CaCl₂ and .6% Halad 9 (486 cu. ft.). Run temp. survey after 8 hours. WOC for 12 hours and test to 1000 psi before crilling out.
- 4 1/2" liner Precede cement with 40 bbls. gelled water. Cement with 450 sx. 50/50 poz with 6% gel, .6% fluid loss additive and .3% retarder (666 cu. ft. 50% excess to circulate liner).

7-3-78

L. O. Van Ryan District Production Manager

					,
	DEPARTI	UNITED STATES MENT OF THE INTERIGEOLOGICAL SURVEY	SUBMIT IN TRIPLICATE* OR (Other instructions on reverse side)	Form approve Budget Bures 5. LEASE DESIGNATION Jicarilla 10	u No. 42-R1424. AND SERIAL NO.
		ICES AND REPORTS Cals to drill or to deepen or plug bo		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
	OIL GAS X OTHER			7. UNIT AGREEMENT NA	ME
2.	NAME OF OPERATOR Southland Roy	yalty Company		8. FARM OR LEASE NAM Jicarilla 10	- - -
3.	ADDRESS OF OPERATOR P. O. Drawer	570, Farmington, New	Mexico	9. WELL NO. #6	1,7-8-2-1-2
	LOCATION OF WELL (Report location of See also space 17 below.) At surface	early and in accordance with any f	State requirements.*	10. FIELD AND POOL, OF Basin Dakota	R WILDCAT
	1820' FSL & 3	1185' FEL		11. SEC., T., B., M., OR B SURVEY OR AREA	
				Section 1, T	
14.	PERMIT NO.	15. ELEVATIONS (Show whether DF, 7139'	kr, Gk, etc.)	12. county of farish Rio Arriba	13. STATE New Mexico
16.	Check Ap	propriate Box To Indicate N	ature of Notice, Report, or O	ther Data	-
	NOTICE OF INTEN	ENT REPORT OF:			
		PULL OR AUTER CASING MULTIPLE COMPLETE	WATER SHUT-OFF FRACTURE TREATMENT	REPAIRING W	

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

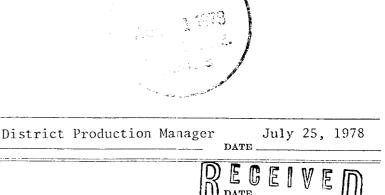
SHOOTING OR ACIDIZING

This well name will be changed to the Jicarilla 101 #1A due to a change in acreage dedication since we propose to drill a Mesa Verde/Dakota dual instead of previously proposed single Dakota.

Revised intent for Jicarilla 101 #1A is attached.

ABANDON*

CHANGE PLANS



JUL 2 8 1978

ABANDONMENT

Obal

SIGNED

(This space for Federal or State office use)

SHOOT OR ACIDIZE

REPAIR WELL

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY FEDANGO, COLO.

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	DEPARTMENT	OF THE I	NIE	RIOR		5. LEASE DESIGNATION	AND SEBIAL NO.
GEOLOGICAL SURVEY						Jicarilla 101	
	n for permit t	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME				
1a. TYPE OF WORK DRI b. TYPE OF WELL	LL 🖾	DEEPEN		PLUG BA	ACK []	7. UNIT AGREEMENT N	AM E
	S XX OTHER			INGLE MULT	IPLE []	8. FARM OR LEASE NAM	(E
2. NAME OF OPERATOR	ALL ALG OTHER			ONE CONE	6 227	Jicarilla 101	
Southland Roy	alty Company					9. WELL NO.	
3. ADDRESS OF OPERATOR						#1A	
	570, Farmington	-				10. FIELD AND POOL, O Blanco Mesa V	R WILDCAT
4. LOCATION OF WELL (R. At surface	eport location clearly and	in accordance wi	th any	State requirements.*)		l Basin Dakota	erae
	FSL & 1185' FEL					11. SEC., T., R., M., OR E AND SURVEY OR AR	LK.
At proposed prod. zon	e					Section 1, T	26N. R4W
14. DISTANCE IN MILES A	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFIC	E*		12. COUNTY OR PARISH	13. STATE
40 miles sout	n/southwest of I	Dulce, New	Mexi	.co		Rio Arriba	New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drlg						32	0
18. DISTANCE FROM PROP TO NEAREST WELL, DI	OSED LOCATION*		19. P	ROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	S LEASE, FT.			8266'		Rota	
21. ELEVATIONS (Show who	ther DF, RT, GR, etc.)					August 15, 1	
23.	P	ROPOSED CASI	NG AN	O CEMENTING PROGI	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	оот	SETTING DEPTH	<u> </u>	QUANTITY OF CEMEN	T
13-3/4"	10-3/4"	32.75	‡	2001	165 c	u. ft.	
9-5/8''	7-5/8''	26.40	¥	4180'		u. ft.	
6-3/4"	5-1/2'' 5-1/2''	15.50 17.00		4030'-7000' 7000'-8266'	606 c	u. ft.	
Top of Ojo A Top of Pictor Fresh water An air syste It is expect No abnormal It is expect on time Gas is dedicated	PROPOSED PROGRAM: If p irill or deepen directional	t 1997'. I is at 388 I is at 388 I to drill the drill	I from GR-I ases lled rig	intermediate of nduction log bare anticipate before Decembe availability a	lepth to pe run a ed in th er 31, 1 and the	total depth. t total depth. is well. 978. This dep weather.	Few productive
8IGNEU	Van &	yan TIT	Dis	trict Producti	on Mana	ger July	25, 1978
(This space for Feder	al or State office use						
PERMIT NO.				APPROVAL DATE		ECEIVE	<u> </u>
APPROVED BYCONDITIONS OF APPROVA	L, IF ANY:	TIT	'LE		<u> </u>	JUL 2 8 1978	<u> </u>
					•	10	

NEM MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Effective 1-1-65 All distances must be from the outer boundaries of the Section Operator Lease Well No. SOUTHLAND ROYALTY COMPAN 1A JICARILLA 101 Township County Range I 26N LIM <u>Rio Arriba</u> Actual Footage Location of Well: feet from the South line and 1185 Ground Leve! Elev. Producing Formation Dedicated Acreage: Dakota-Mesa Verde 320 73.39 <u>Basin -Blanco</u> Acres 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 ____ 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. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Position District Production Manager Southland Royalty Company July 3, 1978 Sec 7 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or 11851 under my supervision, and that the some is true and correct to the best of my knowledge and belief. JUL 2 & 1978 Date Surveyed U. S. GEOLOGICAL SURVEY June THE MIGO, COLO.

fre



July 25, 1978

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,

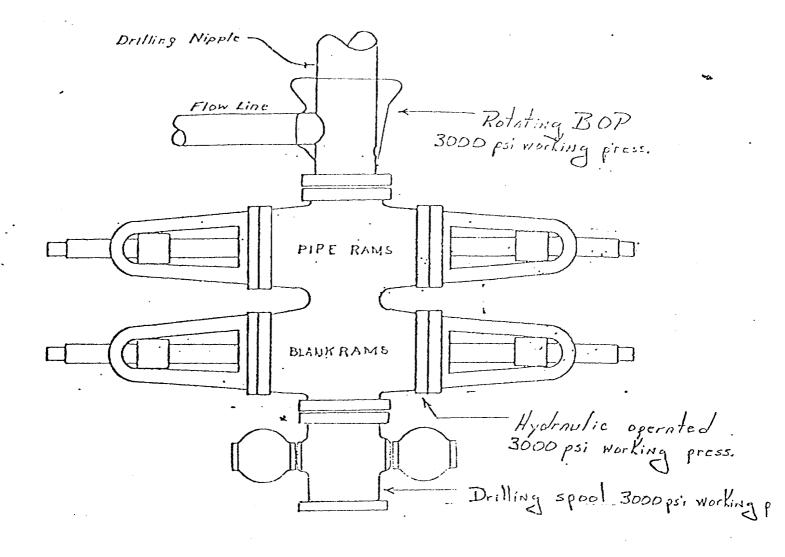
L. O. Van Ryan

District Production Manager

LOVR/dg

RECEIVED Jul 2 8 1978

U. S. GEOLOGICAL SURVEY



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

RECEIVED

JJL 2 8 1978

U. S. GEOLOGICAL SURVEY FEDANGO, COLO.



July 25, 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 Jicarilla 101 #1A 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 the 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 the water holes along Tapacitos Creek. 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. Max Larson will be Southland Royalty Company's field representative supervising these operations.

Yours truly,

JUL 2 & 1978

L. O. Van Ryan

District Production Manager

LOVR/dg

U. S. GEOLOGICAL SURVEY



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: July 25, 1978

Name: Construct Engineer

RECEIVED

JUL 2 8 1978

U. S. GEOLOGICAL SURVEY FEDANGO, COLO.

Location: 1820' FSL & 1185' FEL, Section 1, T26N, R4W, Rio Arriba, New Mexico

Field: Basin Dakota/Blanco Mesa Verde

Elev. 7152' KB 7139' GR

Geology: Formation Tops

Point Lookout 60351 1997' Ojo Alamo 7014' Gallup 3742 Fruitland Graneros 8081.1 Pictured Cliffs 38801 8168' Dakota Intermediate 4180' 82661 Total Depth Cliff House 5565'

JUL 2 8 1978

U. S. GEOLOGICAL SURVEY FIFTAMGO, COLO.

Gamma Ray Density and Gamma Ray Induction at total depth. Logging Program:

Coring Program: None

Gauge at total depth. Also gauge any noticeable increases Natural Gauges:

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

morning report.

Drilling:

Tool Pusher: Bob Young Contractor: Aztec Well Service SRC Answ. Service: 325-1841 SRC Representative: Max Larson SRC Dispatch Number: 325-7391

Mud Program: Fresh water mud to intermediate. Pretreat with 5% LCM at 3700'.

Air form intermediate to total depth.

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt & Gr	ade
	13-3/4" 9-5/8" 6-3/4"	200' 4180' 4030-7000' 7000-8266'	10-3/4" 7-5/8" 5-1/2" 5-1/2"	32.75# 26.40# 15.50# 17.00#	K-55 K-55

Float Equipment:

10-3/4" surface casing - Pathfinder type "A" guide shoe

7-5/8" intermediate casing- Pathfinder type "A" guide shoe. Howco self-fill

insert float valve. Five Pathfinder rigid centralizers.

Run float valve 2 jts above shoe. Run centralizers

every other joint above shee.

- TIW liner hanger with PBR and neoprene pack-off. 5-1/2" liner

Pathfinder type AP guide shoe and type "A" float collar.

- 6000' of 1-1/2", 2.76#, J-55, IJ tubing. Tubing:

8200' of 2-1/16", 3.25#, CW-55, IJ tubing.

- 10-3/4" X 10", 2000#, casing head. Wellhead Equipment:

10", 2000# X 6", 2000 tubing head with donut for 2-1/16"

tubing.

DRILLING SCHELULE - JICARILLA 101 #1A

Page two

10-3/4" surface casing - 140 sxs Class "B" with 3% CaCl₂ (165 cu. ft.) WOC for 12 hrs. Test to 600 psi before drilling out.

7-5/8" intermediate casing360 sxs 50/50 poz with 6% gel and .6% Halad 9 (12.8 PPG)
followed by 70 sxs Class "B" with 2% CaCl₂ and .6% Halad 9
(82.6 cu. ft.) Run temp. survey after 8 hrs. WOC 12 hrs.
Test to 1000 psi before drilling out.

5-1/2" liner - Precede cement with 40 bbls gelled water. Cement with 410 sxs 50/50 Poz with 6% gel, .6% fluid loss additive and .3% retarder (606 cu. ft.) 50% excess to circulate liner.

L. O. Van Ryan District Production Manager

