	NW OIL C	ONS. CUMMIDDIC			30-013-24243		
Form 9-881	Departor		SUBMIT IN TH	-	Form approved.		
(Mr y 1963)	Artenia	ED STATES	ES AUGene		Budget Bureau No. 42-R1425.		
	DEPARTMENT	OF THE INTE					
		GICAL SURVEY	O. C.	D.	5. LEASE DESIGNATION AND SERIAL NO.		
			ARTESIA P	FRICE,	NM-01159 6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
	N FOR PERMIT	O DRILL, DEEL	PEN, OR PLUG	BACK	W W		
1a. TIPE OF WORK		DEEPEN	PLUG BA		7. UNIT AGREEMENT NAME		
b. TYPE OF WELL							
OIL G. WELL W	AS VELL XX OTHER		8. FARM OR LEASE NAME				
2. NAME OF OPERATOR					Holly Federal "4"		
Southland 3. ADDRESS OF OPERATOR	Royalty Company	<u> </u>			9. WHIL NO.		
<u> 1100 Wall</u>	Towers West, Mi	10. FIELD AND POOL, OR WILDCAT					
4. LOCATION OF WELL (R At surface	eport location clearly and		Undeeignated (Atoka)				
1980'	FWL & 660' FSL,	Sec. 4, T-18-	-S, R-30-E		11. SEC., T., R., M., OB BLK. AND SURVEY OR AREA		
At proposed prod. zon	e						
14. DISTANCE IN MILES	AND DIBECTION FROM NEAR	EST TOWN OR POST OFF	· ·	1.14	Sec. 4, T-18-S, R-30-E 12. COUNTY OF PARISH 13. STATE		
15. DISTANCE FROM PROPO			NO. OF ACRES IN LEASE	17. NO. 0	I Eddy I N.M.		
LOCATION TO NEARES: PROPERTY OR LEASE I	LINE, FT.	0'	2083.04'	TOT	HIS WELL 320		
(Also to nearest drig 18. DISTANCE FROM PROP TO NEAREST WELL, D	s. white mate, it any /				RY OR CABLE TOOLS		
TO NEAREST WELL, D or applied for, on th		.A.	11,900'		Roatry		
21. ELEVATIONS (Show who		<u> </u>		<u>.</u>	22. APPROX. DATE WORK WILL START*		
3539.7'	GR				8-1-82		
23.	Р	ROPOSED CASING AN	ND CEMENTING PROGRA	AM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF CEMENT		
17 ¹ 2"	11 3/4"	42#	275'	500 s	IX. CIRCULATE		
11 "	8 5/8"	28-24#	3350'		SX. JINULLING		
7 7/8"	4 1/2"	13.5-11.6#	11,900'		e may vary w/upper zone develop-		
Circ cmt. Drl Cmt w/sufficie stimulate Atok <u>MUD PROGRAM</u> : brine, gel, Dr	to TD to tst At ant volume to br a for productio 0-275' spud mud ispac; 10,500-T	oka & intermed ing above all n. ; 275-3350' br D cut brine, g	iate horizons. prospective zon ine wtr; 3350-8 el, Drispac & 3	/brine If comm es. Est 300' cu	(TOC by Temp survey) wtr & set 8 5/8" csg @ 3350'. mercial, run 4 1/2" csg to TD. timated TOC @ 8500'. Perf & at brine wtr; 8300-10,500' cut MW 9.3-9.5, VIS 34-35,		
	toka. BHP @ TD			· 000	BOP to be installed on 8 5/8"		
Double 10" Ser	900 plus 10" S	er 900 Hydril	nlus drillinghe	с 900. ad те	est BOP w/Yellow Jacket, Inc.		
after setting	on 8 5/8". Tes	t BOP @ 8000'.	prob arritingile.				
GAS NOT DEDICA			DEC	EX	MS+API BOOKO		
			415	1 8 19	CALLE		
in above space describe zone. If proposal is to	drill or deepen directiona	proposal is to deepen or lly, give pertinent data	on subsurface locations as	d messers	luctive zone and proposed new productive & and true vertical depths. Give blowout		
preventer program, if an 24.	<u>y.</u>			CLOGICA	L SURVEY MEXICO		
24. T	- N/AN		ROSW	ELL, NEW	MENICO		
8IGNED	VI CAA		<u>istrict Operation</u>	ons Eng	<u>ineer_{bate} 5-18-82</u>		
(This space for Fede	rand Blate office user Orig. Sed.) GEORGE	H STEWART					
(1	Orig. Sed.) GEORGE	TT: A-=					
PEBMIT NO.			APPROVAL DATE				
APPROVED BY CONDITIONS OF APPROV	4118 1 9 1982	TITLE			DATE		
FORM PREPARED	BYAMES A. GILLHA	M OR682-8641					
		*See Instruction	s On Reverse Side				

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

~

All distances must be from the outer boundaries of the Section.									
Operator South	land Royalt		L	Holl	y Fed.	"4"		Well No. 1	
l'nit Letter N	Section 4	Township 18	South	Range 3	0 East	County	Eddy	••••	
Actual Footage Loce 660		outh	line and	1980	fee	t from the We	est	line	
Ground Level Elev. 3539.	7' Producing For Atoka	mation	Po	∞l Undes	us'ell	estato	Jea Ded	licated Acreage; 320	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 consoli- dated by communitization, unitization, force-pooling.etc?									
XX Yes	No If a	nswer is "ye	s;' type of c	onsolidati	on <u>Com</u>	munitiza	ation		
-	If answer is "no?" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of								
	f necessary.) ble will be assign	ed to the wel	ll until all ir	terests ha	ve been a	consolidate	ed (by commun	itization, unitiza	ation,
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.									
	ł '						CI	ERTIFICATION	
				1				fy that the informatic	
	1			ł				is true and complete owledge and belief.	to the
	1			1			Name	NKM	
	 			· -			District	Operations E	nginee
	1						Position Southland	Royalty Com	pany
	1			ļ			Company 5/14/1982		
	ł			· • • • •			Date		
SOUTHLAND	ROYALTY COMPA	H 20000 1	SOUTHLAND	BOYALTY					
	ergy, et al)		(Holly	ENVER &	t al)		-	tify that the well lo plat was plotted from	
0115				TATE			-	al surveys mode by prvision, and that the	
			6	676	INF	1		correct to the best	
N	F	¥+	-			X - Ē			
	1		10,	W W. WES			Date Surveyed		
	1980 ' 	#1						essional Engineer	
	ม.ล. (ช	0'		u.s.			and/or Land Sur	~/ 1)/1).	4
330 460		10 231C 2640	2000	1800	1000			JORN W. WEST PATRICK A. ROMERC	
		2040	2000				۹	Ronald J. Eidson	3239

SOUTHLAND ROYALTY COMPANY

Holly Federal "4" No. 1 660' FSL & 1980' FWL Sec. 4, T-18-S, R-30-E Eddy County, New Mexico NM 01159

To supplement USGS Form 9-331C "Application to Drill" the following additional information is submitted concerning questions on Page 5 of NTL-6:

- 1. See Form 9-331C.
- 2. See Form 9-331C.
- 3. The geological name of surface formation is: Ochoa
- 4. See Form 9-331C.
- 5. See Form 9-331C.
- The estimated tops of important geological markers are: 6. Anhydrite 260' Glorietta 4640' Atoka 10,750' T/Salt 500' lst Bone Springs 6725' Atoka Lime 10,995' B/Salt 1260' 2nd Bone Springs 7225' Morrow 11,175' Yates 1425' 3rd Bone Springs 8000' B/Morrow 11,650' Queen 2420' Wolfcamp 8450' 2800**'** Grayburg Cisco 9530' San Andres 3260' Lower Strawn 10,490'
- 7. The estimated depths at which anticipated water, oil, gas and mineral bearing strata are as follows:

3260 '	(Oil)		
8450 '	(Oil)		
9530 '	(Gas)		
10,490'	(Gas)		
10,750'	(Gas)		
	8450' 9530' 10,490'		

- 8. See Form 9-331C. All casing will be new.
- 9. See Form 9-331C for depths of strings. Cement volumes and additions as follows:
 - a. 11 3/4" csg: Cement w/500 sxs Class "C" cmt w/2% CaCl. Circ to surface.
 - b. 8 5/8" csg: Cement w/1600 sxs lite wt cmt & 400 sxs Class "C". Circ cmt to surface. Caliper log to be run in conjunction w/GR/CNL/DLL/CDL/BVI/ Caliper log to determine open hole volume for computation of actual cement volume to circ to surface.
 - c. 4 1/2" csg: Cement w/435 sxs lite wt cmt & 300 sxs Class "H" 50-50 Pozmix A. Run caliper log in conjunction w/open hole logs to determine exact hole volume. Top of cmt anticipated at 8500'. Cmt volume could vary w/development of intermediate horizons.
- 10. The pressure control diagram is attached to Form 9-331C. The following additional information is as follows:
 - 11 3/4" casing installation: 10" Ser 900 3000 psi double hydraulic pipe and blind rams.





