•					ELALE	e A-37-314			
Form 9-331 C		N.M.O.C	.D. COPY	RIPLIC	Form approv	ved.			
(May 1963)	IINIT	ED STATES	(Other instru reverse s	ctions on	Budget Bure	au No. 42-R1425. C/SI	۳		
	DEPARTMENT		50 - 005- 5. LEASE DESIGNATION	60/86 file					
	GEOLO	NM 16094	AND SERIAL NO.						
	I FOR PERMIT T	6. IF INDIAN, ALLOTTI	EE OR TRIBE NAME						
1a. TYPE OF WORK									
			PLUG BA	СК 🗌	7. UNIT AGREEMENT	NAME			
b. TYPE OF WELL OIL WELL CAS WELL OTHER SEP 3 0 1980 SINGLE DULTIPLE 8. FARM OF LEASE NAME S. FARM OF LEASE NAME									
2. NAME OF OPERATOR Hagerman Federal "29" Comm.									
Southland Roya	alty Company	O. C. D.			9. WELL NO.				
1100 Wall Tow	ers West, Midla	ARTESIA OFFICE 9	701		10. FIELD AND POOL,	OR WILDCAT			
4. LOCATION OF WELL (Re At surface	port location clearly and	in accordance with any	y State requirements.*)		A Wildcat				
	980 FEL, Sec.	29, T-14-S, R·	-27-E MIC 211	00	1. SEC., T., B., M., OF AND SUBVEY OF	R BLK. Abra			
At proposed prod. zone Same	e				J Sec. 29, T-1	4-S, R-27-E			
14. DISTANCE IN MILES A			B (*******	- .	12. COUNTY OR PARIS				
	east of Hagerm	-			Chaves	New Mexico			
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT. 660	west	NO. OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL 320				
18. DISTANCE FROM PROP TO NEAREST WELL, DI OR APPLIED FOR, ON THI	DSED LOCATION* RILLING, COMPLETED, N	one	PROPOSED DEPTH 7600	20. ROT	ARY OR CABLE TOOLS Rotary				
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)	3429' Gr.			22. APPROX. DATE W Sept. 10,				
23.	P	ROPOSED CASING A	ND CEMENTING PROGR	AM	<u> </u>				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEM	ENT			
15"	11 3/4"	42#	225'		250 sxs				
11"	8 5/8"	24#		_	625 sxs	· · · ·			
7 7/8"	4 1/2"	10.5 & 11.6	# 7600	'	650 sxs				
Drill 15" hole to 225'. Set csg @ 225' T/salt; circ cmt. Drill 11" hole w/br wtr to prevent washout to depth of 1300'. Set csg @ 1300'; cmt circ. Drill 7 7/8" hole to 7600' w/fresh wtr; add brine wtr to raise mud wt. Drill to TD of 7600' to test Morrow & intermed- iate zones. If comercial, run 4 1/2" csg to TD. Cmt w/sufficient cmt to bring cmt above all prospective zones. Est top/cmt @ 4500'. If intermediate horizons are productive, will run stage tool @ 5800' [±] and use additional cmt vol. Perf & stimulate Morrow for production. Mud Program: 0 - 225', spud mud; 225' - 1300', 9.8 - 10# brine water; 1300' - 5400', fresh water; 5400' - 6300' cmt brine water; 6300' - TD, starch, gel, Flosal, & 3% KCL, Vis 40, 6cc fluid loss thru Morrow. BHP @ TD anticipated to be 3300 psi. No abnormal pressure expected. BOP Program: BOP to be installed on 11 3/4" double 10" Ser 900. BOP to be installed on 8 5/8", double 10" Ser 900 & 10" Ser 900 Hydril & drilling head. Test w/Yellow Jacket Inc. Test BOP daily. GAS NOT DEDICATED IN ABOVE SPACE PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive preventer program. If any.									
	GEORGE H. STEWA	<u>aca</u>	APPBOVAL DATE	g Witteners	D 2801	2 5 1980			
APPROVED BY		TITLE	in the second distribution of the second distr	an Gerial					
	HAS BEEN DEDICA	TED, (BEST OF	OUR KNOWLEDGE)	YE	s NO				

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*See Instructions On Reverse Side



United States Department of the Interior

GEOLOGICAL SURVEY SPECIAL APPROVAL STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN:

0PERATOR 29-145-274	Hae crman FED 29 COMM NO.1 WELL DESIGNATION CHAVES
NM 16 094	

THE SPECIAL STIPULATIONS CHECK MARKED BELOW ARE APPLICABLE TO THE ABOVE-DESCRIBED WELL AND APPROVAL OF THIS APPLICATION TO DRILL IS CONDITIONED UPON COMPLIANCE WITH SUCH STIPULATIONS. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE SPECIAL STIPULATIONS PURSUANT TO TITLE 30 CFR 290.

13/ surface casing should be set in the Rustler Anhydrite formation and cement circulated to the surface. If surface casing is set at a lesser depth, Α. the casing must be cemented from the casing shoe to the surface or cemented to the surface through a stage tool set at least 50 feet below the top of the Rustler after cementing around the shoe with sufficient cement to fill to the base of the salt section. Before drilling below the 8 70 " casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers. Casing protectors will be run on drill pipe while drilling through the casing. Protectors will be of sufficient number and of sufficient outside diameter to protect the casing. Minimum required fill of cement behind the 8% casing is to <u>Circulatet</u>, surface. After setting the 878'' casing string and before drilling into the $\omega \alpha \mathcal{FCAMP}$ formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company. Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report. F. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the **CAMP** formation and used until production casing is run and cemented. Monitoring equipment shall consist of the following: (1) A recording pit level indicator to determine pit volume gains and losses. (2) A mud volume measuring device for accurately determining mud volume necessary to fill the hole on trips. (3) A flow sensor on the flow-line to warn of any abnormal mud returns from the well. All pits containing toxic liquids will be fenced and covered with a fine mesh G. netting, if necessary for the protection of livestock or wildlife.

 Above ground permanent structures and equipment shall be painted in accordance with the Painting Guidelines. The paint color is to simulate:

Sandstone Brown, Fed. Std. 595-20318 or 30318

ידע אל י

X Sagebrush Gray, Fed. Std. 595-26357 or 36357

I. A kelly cock will be installed and maintained in operable condition.



The ARTESIM Sub-District Office is to be notified in sufficient time for a representative to witness:

(a)	Spudding
(b)	Cementing casing
	85/8" inch
	inch
	inch
(c)	BOP tests

- K. A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the U.S. Geological Survey, P.O. Box 26124, Albuquerque, New Mexico 87125. The effective date of the agreement must be prior to any sales.
- A Gamma Ray-Compensated Neutron log is required from the base of the salt section to the surface with cable speed not to exceed 30 feet per minute.
- M. At least one working day prior to constructing the well pad, access roads and/or related facilities, the operator or dirt contractor shall notify the authorized officer (Bureau of Land Management, Annual Parkasuecurea). He shall also notify the Authorized Officer within two working days after completion of earth-moving activities.
- N. All access roads constructed in conjunction with the drilling permit (APD) will be limited to a <u>for</u> foot wide driving surface, excluding turnarounds. Surface disturbance associated with construction and/or use of the road will be limited to <u>for</u> feet in width. If well is a producer, all roads will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts and/or any other measures deemed necessary by the authorized officer of the BLM. The following is a general guide for the spacing of water bars:

2 Slope

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less than 2	2X															200	ft.
2% to 4% .						•				•			•		•	100	ft.
4% to 5% .																	
more than !									٠	•	•	•	•	٠	•	50	ft.
Other spec	ial	5	sci	p	118	t	ior	15									

Any permanent pit containing waste oil must be fenced and covered with mesh wire.

N.M.O.(C.D. COPY				
UNL_D STA (May 1963) DEPARTMENT OF TH GEOLOGICAL S	IE INTERIOR	SUBMIT IN TRIPLIC (Other instructions on verse side)	re- 5. LE	Form approved. Budget Bureau No CASE DESIGNATION AND A	SERIAL NO.
SUNDRY NOTICES AND R (Do not use this form for proposals to drill or to de Use "APPLICATION FOR PERMIT	EPORTS ON eepen or plug back T—" for such propos	WELLS to a different reservoir. als.)	6. IF	' INDIAN, ALLOTTEE OR 2	BIBE NAME
1. OIL GAS XX WELL OTHER			7. 03	NIT AGREEMENT NAME	
2. NAME OF OPERATOR Southland Royalty Company				arm or LEASE NAME german Federal	 L "29" Comm
3. ADDRESS OF OPERATOR	lland, Texas	79701		ELL NO.	
 LOCATION OF WELL (Report location clearly and in accord See also space 17 below.) At surface 			10. 1	FIELD AND POOL, OR WII Wildcat	DCAT
1980' FSL & 1780' FEL Sec	29, T-14-S	, R-27-Е	11. (SEC., T., B., M., OR BLK. A SUBVEY OR AREA	ND -
14. PERMIT NO. 15. ELEVATIONS (S	Show whether DF, RT, 3434.6'		12.	29, T-14-S, I COUNTY OB PARISH 13. aves	
16. Check Appropriate Box T		······			Vew Hexico
NOTICE OF INTENTION TO :			SEQUENT R		
TEST WATER SHUT-OFF PULL OR ALTER CASH FRACTURE TREAT MULTIPLE COMPLETH SHOOT OR ACIDIZE ABANDON* REPAIR WELL CHANGE PLANS (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly st proposed work, If well is directionally drilled, give		Completion or Rec	ompletion	REPAIRING WELL ALTERING CASING ABANDONMENT [•] nitiple completion on W Report and Log form.) ling estimated date of	Vell
At request of Bureau of Land to the east, putting the loc See attached Plat.	-				200'
			• •		
18. I hereby certify that the foregoing is true and correct SIGNED Dom R Cray		ict Operation E	ngineer	DATE 9-18-80	· · · · · · · · · · · · · · · · · · ·
(This space for Federal or State office Ase)	ACTING DI	STRICT ENGINEE	R	SEP 25	980
CONDITIONS OF APPROVAL, IF ANY:	ee Instructions o	n Reverse Side			

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► MEXICO OIL CONSERVATION COMMIS. ↓ WELL LOCATION AND ACREAGE DEDICATION PLAT

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

		All distances mus	t be from (he outer boundari	es of the Se	ction.	-	
perator			Leo					Well Nc.
		yalty CO.		·····		ed. 29 Con	1.	1
nit Letter	Section 29	Township 14 sout	ch	Range 27 eas	Coun t	Chaves		
tual Footage Lo				1	<u> </u>			
1980	leet from the	south line	and	1780	feet from	the east		line
ound Level Elev			Poc			<u> </u>	Dedic	ated Acreage:
3434.6	Wild	c at		Undesigna	ted			320 Acres
1. Outline t	he acreage dedica	ated to the subjec	t well l	by colored pen	cil or hac	hure marks on th	ne plai	t below.
interest a 3. If more th	and royalty). an one lease of c	,	o is dedi	cated to the w	ell, have	the interests of		(both as to working wners been consoli-
XX Yes	No If a	nswer is "yes," ty	pe of co	nsolidation	Commun	itization		
If answer	is "no;' list the	owners and tract	descript	ions which ha	ve actuall	y been consolid	ated. (Use reverse side of
	if necessary.)							
No allowa	ble will be assign	ied to the well unti	lall int	erests have be	en conso	lidated (by com	munit	zation, unitization,
	oling, or otherwise)or until a non-sta	ndard un	it, eliminating	g such inte	erests, has been	appro	ved by the Commis-
sion.		······································						<u></u>
	1	E Mi	cs. R.	J. Fuller		mg -	CER	TIFICATION
	1		NM 18					
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<u></u>			- <u></u>	Depco Inc				
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NL MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section.

Operator Sout	hland Roya		Hagerman	Federal "29" Comm.	Well No. 1				
Unit Letter J	Section 29	Township 14 South	Range 27 East	Chaves					
Actual Exchage Loc		14 JUULII	L' Last	Chaves					
1980	1980 test from the South line and 1980 test from the East line								
Ground Level Elev. 3429.2	Producing Fo Wil	dcat	7001 Undesignated		cated Acreage; 320 Acres				
1 Outline th	1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.								
2. If more th	 Outline the according according to the sell, outline each and identify the ownership thereof (both as to working interest and royalty). 								
dated by c X Yes									
this form i No allowal	f necessary.) ble will be assign	ied to the well until all i	nterests have been o	tually been consolidated. consolidated (by communi h interests, has been app	tization, unitization,				
	1	Mrg. D	J. Fuller	CE	RTIFICATION				
F	AUIG 2.1 10 ANIG 2.1 10 ARTESIA, I		M 18084	Name Position District Op Company	that the information con- true and complete to the wledge and belief.				
110. PROF	1675	0	U'S. Depco Inc. NM 16094 1 1980' 1 1980' 1 1 1 1 1 1 1 1980' 1 1 1 1980' 1 1 1 1980'	shown on this ; notes of actua under my super	5,1980 ssional Engineer				
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PI CONTRACTOR OF THE PI	OHN W. WEST 676 ATRICK A. ROMERO 6661				
0 330 660	180 1820 1650 18	80 2310 2640 2000	1800 1000 8	00 0 R	onald J. Eidson 3239				

SOUTHLAND ROYALITY COMPANY

Hagerman Federal "29" Comm. No. 1 1980' FSL & 1980' FFL Sec. 29, T-14-S, R-27-E Chaves County, New Mexico NM 16094

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:
- 4. See Form 9-331C.
- 5. See Form 9-331C.

6. The estimated tops of important geological markers are:

T/Salt 300'	Tubb 3860'	Morrow 7200'
B/Salt 800'	Abo 4630'	Mississippian 7400'
San Andres 1250' Glorietta 2500'	Wolfcamp 5820' Penn 6600'	

7. The estimated depths at which anticipated water, oil, gas and mineral bearing strata are as follows:

San Andres (Oil)	1250'	Wolfcamp (Oil or Gas)	5820'
Glorietta (Oil)	2500'	Penn (Oil or Gas)	6600'
Tubb (Oil)	3860'	Morrow (Gas)	7200'
Abo (Oil)	4630'	Mississippian (Gas)	7400'

- 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" casing: Cement w/250 sxs Class "C" w/2% CaCl. Cement to to be circulated back to surface.
 - b. 8 5/8" casing: Cement w/425 sxs Class "C" Lite, 18% salt/sx, 10# Gilsonite/sx, 1/2# Flocele/sxs, plus 200 sxs Class "C" w/3# salt/ sx. Circulate cement back to surface. A Caliper log will be run in conjunction with other logs prior to running casing to obtain exact hole volumes. It is estimated that the volumes used will circulate cment back to surface of ground.
 - C. 4 1/2" casing: Cement w/375 sxs Class "C" Lite .6% Halad 22/sx, 3# KCL/sx plus 275 sxs Class "H" 50-50 Pozmix A, 2% Gel/sx, .6% Halad 22/sx, .4% CFR-2/sx, 3# KCL/sx. Will run Caliper in conjunction w/ open hole logs prior to setting 4 1/2" casing to determine exact cementing volumes. Top of cmt estimated to be at 3500'. Cementing volumes could vary depending on 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. 8 5/8" casing installation: 10" Ser 900 3000 psi double hydraulic pipe and blind rams plus 10" Ser 900 3000 psi Hydril plus10" Ser 900 3000 psi Rotating Head.

Testing Procedure:

11 3/4" casing - pressure to 1000 psi for 30 min. before drilling below 11 3/4" casing.

8 5/8" casing - pressure to 1500 psi for 30 min. before drilling below 8 5/8" casing. Yellow Jacket, Inc. to test 8 5/8" casing installation. Test BOP daily while drilling & on all trips.

- 11. See Form 9-331C.
- 12. A. DST Program Probable DST if shows encountered on mud logger in Wolfcamp and Morrow E sand.
 - b. Cores None
 - c. Mud Logging To be installed from surface to TD.
 - d. Wire Line Logs:
 225' 1300' Dual Laterolog/GR, Compensated Neutron/Compensated Density/GR-Caliper.
 1300' TD Dual Laterolog/Micro SFL/GR, Compensated Neutron Compensated Density/GR-Caliper.
- 13. No abnormal pressures anticipated with bottom hole pressures at TD expected to be 3300 psi. Bottom hole temperature 150 F. No Hydrogen Sulfide expected in this known drilling area. No crooked hole or abnormal deviation problems.
- 14. Anticipated starting date to spud-September 10, 1980. Previous drilling in area indicates 45 days from spud to set 4 1/2" casing @ TD or about October 24, 1980.

13. Surface Ownership:

Bureau of Land Management (Federal)

14. Operators Representative:

Field representatives (responsible for compliance with approved surface use and operations plan):

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Southland Royalty Company P. O. Box 65 Loco Hills, New Mexico Office: 505-677-2233

Mr. Wayne Grubbs, Drilling Foreman Loco Hills, New Mexico Home: 505-677-2295 Mr. Bill Chrane, Prod. Supt. Midlard, Texas Office 915+682-8641 Home 915+694-0730

15. Certification:

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route; that I am familiar with conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Southland Royalty Company and its contractors and sub-contractors in uniformity with this plan and the terms and conditions under which it is approved.

DATE: 8/14/80

Vonald R Craig

Don Craig District Operation Engineer Southland Royalty Company

Surface Use Plan Southland Royalty Company Hagerman Federal "29" Comm. No. 1 1980' FSI. & 1980' ETT U.S. Entransienter ANTESIA, TIER TREATOS Sec. 29, T-14-S, R-27-E Chaves County, New Mexico NM 16094

This plan is submitted with Application to Drill on above described well. The minerals are federal, and the surface is leased for grazing (See below for surface leasee). The purpose of this plan is to describe the location, proposed construction activities and operations plan, magnitude of necessary surface disturbance and procedures to be followed in rehabilitating the surface after completion of the operation so that complete appraisal can be made of the environmental effects associated with the operation.

1. Existing Roads:

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Exhibit "A" is a portion of a USGS Topographic map showing the location of the proposed well as staked.

Directions to the well are as follows: From downtown Hagerman go approximately 3.8 miles east on highway 31. Turn south on Buffalo Valley Road and go 2.5 miles, turn east and go .4 mile and turn northeast on new road and go approximately .3 mile to location.

2. Planned Access Road:

- a. One road will be built from the existing lease road to the proposed location. New road required will be 15 feet wide & 2000' long. The center line of the proposed new road from the beginning to the well site has been staked and flagged with the stakes being visible from any one to the next.
- b. Surfacing Material: 6" of caliche, watered, compacted and graded.
- 3. Location of Existing Wells in Area:

See Exhibit "B"

4. Location of Proposed Facilities:

Location of proposed well site and tank battery is shown on Exhibit "C". The battery will be located on proposed well pad, no additional surface disturbance will be necessary.

- 5. Water Supply:
- a. No available surface or sub-surface fresh water exixts in the vicinity of the proposed well. Drilling water will be transported to the drill site from the nearest commercial source.

6. Source of Construction Material:

Caliche for surfacing access road and pad will be obtained from existing pit located as shown on Exhibit "A" in the NW/4 of NW/4 Sec. 29, T-14-S, R-27-E. The pit has been cleared by the agency for conservation archaeology. The report clearing the pit will be submitted as soon as it is received.

Handling Waste Disposal: 7.

- Drill cuttings disposed into drilling pits. Α.
- B. Drill fluids allowed to evaporate in drill pits until pits dry.
- C. Produced water during testing drill pits.
- D. Produced oil during testing storage tank until sold.
- E. Current laws and regulations pertaining to disposal of human waste will be complied with.
- F. Reserve pit will be plastic lined.
- G. Waste paper, garbage, junk disposed of into special trash pit at
- lccation and covered with minimum of 24 inches of dirt upon completion of well. All waste material will be contained to prevent scattering by wind.
- 8. All trash and debris will be buried or removed from well site within 30 days after finish drilling and/or completion operations.
- 9. Ancillary Facilities:

None

10. Plans for Restoration of Surface:

- A. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of trash and junk to leave well site in aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until filled.
- C. After abandonment of well, surface restoration will be in accordance with State of New Mexico Surface Requirements.
- 11. Topography and Soil:

See attached Eastern New Mexico University Report by Dr. Collen M. Beck.

12. Land Use:

Federal Grazing and hunting -

- Surface leasee is

Charles Wilson P. O. Box 1266 Roswell, New Mexico 88201 . ATTACHMENT TO FORM C-101







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Brown h	Shenandaah;	Perry. men ila 37.35	Rubenstein V2	4 1	3 Read 6 2
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