(December 1990)		NITED STATE		(0	ther ins reverse		Form approved. Budget Bureau No. 1004-0136 Expires: December 31, 1991
	BUREAU	OF LAND MANA				,	5. LEASE DESIGNATION AND SEBIAL NO. NM-801
AP	PLICATION FOR	PERMIT TO	DRIL	L OR DE	EPEN		6. IF INDIAN, ALLOTTER OR TRIDE NAME
1a. TIPE OF WORK b. TIPE OF WELL	DRILL 😨	DEEPEN					7. UMIT AGEBEMBNT NAMB
OIL X	WELL OTHER		\$1 50	NGLE	MULTI Sone		8. FARM OR LEASE NAME SHELL NO.
2. NAME OF OPERAT	NOB						Phillips Wyatt Federal #
	ROYALTIES INC.	CODTNO DU	ONE 01	5 696 00	777		9. ATTHELINO. 30-025-32414,
	11390 MIDLAND, T		ONE 91	.)=000=93	721	-	10. FIRLD AND POOL OF WILDCAT
LOCATION OF WEI	LL (Beport location clearly	and in accordance w	ith any B	tate requirem	ents.*)		MALJAMAR
46/	FNL & 2173'FWL	Sec 34 T17S-	-R33E	Lea Co.	N.M.	-	11. BBC., T., R., M., OR BLE. AND SURVEY OR AREA
At proposed pro-	d. some Same	10				S	Sec 34 T17S-R33E
	ILES AND DIRECTION FROM N		ST OFFICE	•			12. COUNTY OR PARISH 18. STATE
8 Miles S	S.E. of Maljamar	New Mexico					LEA NEW MEXICO
5. DISTANCE FROM LOCATION TO NE	AREST I.C.7 1		16. NO.	OF ACRES IN	LEASE		ACRES ABSIGNED 8 WELL
	t drig. unit line, if any)						40
TO NEAREST WE	FROPOSED LOCATION® LL, DRILLING, COMPLETED, 7	97'		POSED DEPTH		20. ROTART ROTAR	OR CABLE TOOLS
	W THIS LEASE, FT. W whether DF, RT, GR, etc.)		<u> </u>				22. APPROX. DATE WORK WILL START*
4155			ounty C	ontrolled	Water B	asin	2/01/94
		PROPOSED CAS					
SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER F	1 T00	SETTING D	EPTH	1	QUANTITY OF CEMENT
124	J-55, 85/8	24#		1460	Cinc	500 sx	Halliburton-Light+400 sx
7 7/8		15.5#	[-	5500		350 Sx	Halliburton-LightW/10#sa
						Per Sx:	+ 250 Sx Class "C" + Add
2. Drill 12 ¹	of 20'' Conductor %'' Hole to	Pipe Cement	to s	urface w	ith Red	di-Mix	
	con-Light tail in	400 Sx clas	s "C"	. circu	0' J-55 late to	o surfac	e.
Drill 7 7 of Hallib Tie back	con-Light tail in 7/8'' hole to 550 purton-Light ceme into the 8 5/8"	400 Sx clas 0' Run 5500' nt W/10# sal	of 5 ¹ t per	. circu ₂'' J-55 Sx tail	0' J-55 late to , i5.57 in wit	o surfac # ST&C c th 250 S	e.
Drill 7 7 of Hallit Tie back bond Log.	ton-Light tail in 7/8'' hole to 550 purton-Light ceme into the 8 5/8"	400 Sx clas 0' Run 5500' nt W/10# sal	of 5 ¹ t per	. circu ₂'' J-55 Sx tail	0' J-55 late to , i5.57 in wit	o surfac # ST&C c th 250 S	e. asing. Cemtnt with 350 S: x class "C" + additives.
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*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT

Letter Se C Sector Sect	rom the NC Producing F Grayburg age dedicated to the lease is dedic the lease of diffe the pooling, etc. No list of owners a be assigned to	Township 17 SOUTH DRTH line and cormation 5-San Andres to the subject well by color- cated to the well, outline of the subject well by color- cated to the well, outline of the subject well by color- the subject well	ed pencil or i each and ider id to the well be of consoli ch have actu	Maljamar hachure marks on th atify the ownership th I, have the interest of dation ally been consolidate	NMPM feet from the V feet from the V e plat below. hereof (both as to wo	LEA VEST line Dedicated Acreage: 40 Acre prking interest and royalty). possolidated by communitization
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		*****	<u></u>		OPE	RATOR CERTIFICATION
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					correct belief.	to the best of my knowledg
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	1					DECEMBER 21, 1993
						ire & Seal of sional Surveyor
					Certifi	GARY L. JOAKS

APPLICATION TO DRILL

Southwest Royalties Inc. Phillips Wyatt Fed. # 14 Section 34, Unit "B" T17S-R33E Lea County, New Mexico

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

- 1. Location: 476' FNL & 2173' FWL Sec. 34 T17S-R33E Lea Co. New Mexico
- 2. Elevation Above Sea Level: 4155.9 GL
- 3. Geologic Name of Surface Formation: Quaternery Aeolian Deposits
- 4. Drilling Tools and Associated Equipment: Conventional rotary drilling rig using mud for the circulation medium.
- 5. Proposed Drilling Depth: 5500'

6. Estimated Geological Marker Tops:

Rustler	1440
Top of Salt	1605
Base of Salt	2630
Top Yates	2730
Top Queen	3727
Top Grayburg	4150
Top San Andres	4526
. <u>****</u>	Descine Fernatio

7. Possible Mineral Bearing Formation:

Grayburg-San Andres 0il

8. Casing Program:

<u>Hole Size</u>	Interval	OD Csg	Weight Thread Grade Condition
25''	0-40	20"	Conductor Pipe .30 Wall Thickness
12 ¹ / ₄	0-1460	8 5/8	24# 8-R J-55 ST&C
7 7/8	0-5500	5 ¹ 2	15.5 # 8-R J-55 ST&C

Application to L.11 Southwest Royalties Inc. Phillips Wyatt Fed. #14

9.

Cementing (and Setting Depth:			
20'	Conductor	Set	@ 40'	Cement With Redi-Mix Cement to surface
8 5/8	Surface	Set	1460'	of 8 5/8" 24# 8-R J-55 ST&C Cement with 500 Sx of light cement tail in with 400 Sx class "C" with additives Circulate cement to surface
5 ¹ 2	Production	Set	5500'	of 5½ 15.5# 8-R J-55 ST&C Cement with 350 Sx of light cement with 10# Salt/Sx tail in with 250 Sx of Class "C" or 50/50 POZ with additives Tie Back into 8 5/8" casing. Verify top of cement with log.

10. Pressure Control Equipment: Exhibit "E". A Blow-out Preventer (no less than 900 series 3000 psi working pressure) consisting of double ram type preventer with bag type preventer. Units will be hydraulically operated. Exhibit "E-1" Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be nippled up on 13 3/8" casing and remain 8 58" on well until casing is run and cemented. BOP will be tested as well as choke manifold. BOP will be worked at least once each day while drilling and blind ram will be worked on trips when no drill pipe is in hole. Flow sensor PVT, full opening stabbing valve and upper kelley cock will be utilized. No pressures greater than 2000 psi anticipated.

11. Proposed Mud Circulating System:

Denth	Mud Wt	Mud Visc.	Fluid Loss	Type Mud
<u>Depth</u> 0-1460 1460-5500	<u>Mud Wt.</u> 8.6 - 9.0 10.0 - 10.1	34-36 28-29	NC NC	Fresh Water Brine water w/lime for pH control and paper for seepage
				101 Scepuge

To log well and run casing viscosity may have to be raised and water loss may be required to be lowered to 8cc or less depending on hole conditions.

Application to Drill Southwest Royalties Inc. Phillips Wyatt Fed. #14

- 12. Testing, Logging and Coring Programs:
 - () No planned DST
 - (B) Open Hole Logs: DLLw/LDT-CNL from TD to 1460' with Gamma Ray to surface.
 - (C) No coring planned.
- 13. Potential Hazards:

No abnormal pressures of temperature zones expected (nothing abnormal in offset wells or other wells in the area). Hydrogen sulfide gas is not anticipated however, precautions for detection will be observed. No major lost circulation is expected (none reported in this area). H2S contingency attached "13-A".

- 14. Anticipated Starting Date and Duration of Operation: Road and location construction will begin after BLM approval of APD. Anticipated spud date 03/01/94 Drilling expected to take 10 to 12 days. If production casing is run an additional 20 days to complete and construct surface facility and place well on production.
- 15. Other Facets of Operations: After running casing, cased hole gamma ray collar correlation logs will be run from total depth over possible pay intervals. The Grayburg-San Andres will be perforated & stimulated. The well will be swab tested and potentialed as an oil well.



ARRANGEMENT SRRA

900 Series 3000 PSI WP

> Southwwest Royalties Inc. BOP Sketch to be used on Phillips-Wyatt Federal # 14 467' FNL & 2173' FWL Sec. 34 T17S-R33E Lea, Co. N.M.

> > EXHIBIT "E"