•		BLM-CA	RLSBAD					
Form 3160-3 (July 1992)		ITED STATES	ED STATES (Other instructions on reverse side) OF THE INTERIOR			E* FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995 J - 58		
[349		F LAND MANAGEME				5. LEASE DESIGNATION	-	
						6. IF INDIAN, ALLOTTE		
	LICATION FOR	PERMIT TO DRIL	L OR DE	EPEN		U. IN INDIAN, ALLOTTE	OR TRIBE NAME	
14. TTPE OF WORK	DRILL	DEEPEN				7. UNIT AGREEMENT N	AMB	
D. TYPE OF WELL OIL WELL	GAS OTHER			MULTIP Zone		8. FARM OR LEASE NAME, WE		
2. NAME OF OPERATOR						Eilliams " 34"	Federal # 12	
	OYALTIES INC.		(NELSON F	PATTON)		9. API WELL NO.		
3. ADDRESS AND TELEPHONE	NO P.O. BOX 11390	MIDLAND, TEX	AS 79702	2				
	407 NORTH BIG (Report location clearly an	SPRING PHONE	915-686-9	927		10. FIELD AND POOL, O	R WILDCAT	
At proposed prod.	FNL & 660' FEL	SEC. 34 T17S-R	33E LEA	CO		MALJAMAR 11. SBC., T., R., M., OR B AND BURVEY OF AR Sec. 34 T17	E.A.	
14. DISTANCE IN MILL	S AND DIRECTION FROM NE	AREST TOWN OR POST OFFIC	· E *			12. COUNTY OR PARISH	13. BTATE	
8 Miles Sout	heast of Maljama	r New Mexico				LEA	NM	
13. DIATANCE FROM PA LOCATION TO NEAR PROPERTY OR LEAR	OPUSED" EST	16. N	0 OF ACRES 12	N LEASE		F ACRES ABSIGNED HIS WELL 40		
18. DISTANCE FROM PI	BOPOSED LOCATION* DRILLING, COMPLETED.		ROPOSED DEPTH		20. ROTAR	T OR CABLE TOOLS		
OR AFPLIED FOR, ON	TRIB LEASE, PT. 6	60' 5	500'		Ro	tary		
21. ELEVATIONS (Show 4142	whether DF, RT GR etc.)					AS SOON AS APP	-	
23.		PROPOSED CASING ANI	CEMENTING	PROGRAM	Lea Co	ounty Controlle	d Water Basin	
BIZE OF BOLE	ORADE SIZE OF CASING	WEIGHT PER POOT	SETTING D			QUANTITY OF CEMENT		
121/2"	J-55 8 5/8"	24#WITNESS	1460	CULATE	00 Sv	Hal-light + 4(0 Sx C1 "C"	
7 7/8		15.5#	5500 (50	estips)	50 Sx.	Hal-light W/l()# Salt/Sx.	
						x. Class "C" +		

- 1. Set 40' of 20'' Conductor Pipe Cement to surface with Redi-Mix
- 2. Drill 12½'' Hole to Run 8 5/8'' Casing to 1460' J-55, 24# ST&C. Cement with 500 Sx Halliburton-Light tail in 400 Sx class "C". circulate to surface.
- 3. Drill 7 7/8'' hole to 5500' Run 5500' of 5½'' J-55, \$5.5# ST&C casing. Cemtnt with 350 Sx of Halliburton-Light cement W/10# salt per Sx tail in with 250 Sx class "C" + additives. Tie back into the 8 5/8" casing at 1460'. Verify top of cement with temp. Log or cement bond Log. OPER. OGRID NO. 21355

Application approval does not warrant or certify that the applicant holds legal o	we amplitable title to those sights in the authinst lance.	and the second dense of a state of the second difference in the second state of the second state of the second	
PERMIT NO.	APPROVAL DATE	GENERAL REQUIREMENTS AN	M
			5
(This pace for Federal or Spate office une)		APPROVAL SUBJECT TO	
RMINED for former	Agent	07/18/95	
24.	Acont		
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deep deepen directionally, give pertinent data or: subsurface locations and measured a	pen, give data on present productive zone and ind true vertical depths. Give blowout preventer	proposed new productive zone. If proposal is to drill or program, if any	
	·····		
APINO. 30-025.33	DQL		
EFF. DATE 9/11/95		ان السلمين المسلمين المسلمين المسلمين المسلمين الم	
POOL CODE 43329		1 *	
PROPERTY NO. 16868	2		

UT Molanda Vie anag APPROVED BY *See Instructions On Revene Side NOS REC'D: +/11/95

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

DISTRICT I

P.O. Box 1980, Hobbs, NM 86241-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 66211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2068, SANTA PE, N.M. 87504-2088

API Number

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

Pool Name

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

API Number 30-025-330	94	433	Pool Code 329		Pool Name Maljamar-Grayburg San Andres				
Property Code 16868		1	EI	Prop LLIAMS	erty Nam " <u>-34</u> "	e FEDERAL	Well Num 12	Well Number 12	
OGRID No. 021355	Operator Name SOUTHWEST ROYALTIES INC.						Elevation 4142		
				Surfa	ce Loca	ation			
UL or lot No. Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	East/West line	County
A 34	17 S	33 E	<u> </u>	33		NORTH rent From Sur	660	EAST	LEA
UL or lot No. Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	East/West line	County
Dedicated Acres Joint o	r Infill Co	onsolidation	Code 0	der No.					
40									
NO ALLOWABLE V						JNTIL ALL INTER APPROVED BY		EEN CONSOLIDA	ATED
						<u>SEE DETAIL</u> 4143.5' 4139.4' 0 4144.7' 4140.2'	contained herei best of my know Signature Joe T. J Printed Nam <u>Agent</u> Title 07/18/ Date SURVEYO I hereby certify on this plat u actual surveys supervison an correct to th JU Date Survey Signature Frage lanai	Panica P95 PR CERTIFICA y that the well locat made by me or nd that the same is the best of my better LY 10, 1995 Seel, 50 MERCIA Seel, 50 MERCIA SEEL	TION tion shown d notes of under my s true and s. DMC 7-12-93 087 675



ARRANGEMENT SRRA

900 Series 3000 PSI WP

EXHIBIT "E" BOP SKETCH TO BE USED ON SOUTHWEST ROYALTIES INC. EILLIAMS "34" FEDERAL # 12 330' FNL & 660' FEL SEC. 34 T17S-R33E LEA CO. NM

APPLICATION TO DRILL

SOUTHWEST ROYALTIES INC. EILLIAMS "34" FEDERAL #12 330' FNL & 660' FEL SEC. 34 T17S-R33E LEA CO. NM

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

- 1. Location: 330' FNL & 660' FEL SEC. 34 T17S-R33E LEA CO. NEW MEXICO
- 2. Elevation above sea level: 4153' GL
- 3. Geologic name of surface formation: Quaternery Aeolian Deposits.
- 4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5. Proposed drilling depth: 5500'
- 6. Estimated tops of geological markers:

Rustler anhydrite	1440'	Top of Queen	3727'
Top of salt	1605'	Top of Grayburg	4150'
Base of salt	2630	Top of San Andres	4526'
Top of Yates	2730'	•	

7. Possible mineral bearing formation:

Grayburg -San Andres 011

8. Casing program:

Hole size	Interval	OD casing	Weight	Thread	Collar	Grade	Condition
25" 12 ¹ 4"	0-40' 0-1460'	20" 8 5/8"	24#	Conduct 8-R	or Pipr ST&C	.30 Wa l 1 J-55	thickness New
7 7/8"	0-5500'	5날"	15 5#	8-R	ST&C	J-55	New

SURFACE USE PLAN

SOUTHWEST ROYALTIES, INC. EILLIAMS "34" FEDERAL #12 330' FNL & 660' FEL SEC.34 T17S-R33E LEA CO. NM

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 8 5/8" casing and remain 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:

Depth Mud Wt. Mud Visc. Fluid Loss Type Hud	
Depth Hud wer 0-1460 8.6 - 9.0 34-36 NC Fresh Water 1460-5500 10.0 - 10.1 28-29 NC Brine water w/lime for pH control and p for seepage	

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.

SOUTHWEST ROYALTIES, INC. EILLIAMS "34" FEDERAL # 12 330' FNL & 660' FEL SEC.34 T17S-R33E LEA CO. NM

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 09/15/95 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.