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/s/ TIMOTHY J. BURKE	TILLE ACTING Area Manager DATE 6-5-96	
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*See	Instructions	On	Reverse Side

\*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 foundations of representations as to any matter within its jurisdiction.

DISTRICT I P.O. Box 1960, Hobbs, NM 88241-1960

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV

P.O. BOX 2088, SANTA FE, N.M. 87504--2088

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

# OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

					AND ACIUM		D 1. N		
30-025	umber - 334	179	Pool Code 43 32 4 43329 MALJAMAR - GRAYBURG SAN A						
Property Co 16868			Property Name EILLIAMS "J4" FEDERAL					Well Number 14	
ogrid no. 021355	¢ - : • , ,			SOUTH	Operator Name WEST ROYAL			Blevation 4151	
			<del>_</del>		Surface Loca	ation		•	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	34	17 S	33 E	1650 NORTH 1980			EAST	LEA	
			Bottom	Hole Loc	ation If Diffe	rent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint of	r Infill Co	l onsolidation (	Code Ord	ler No.	1	L		
40									
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	+			4152.3' F l 4151.7'	4150.0' 4149.2'	-1980'	I herei contained heren best of my kno Signature Joe T. Printed Nam <u>Agent</u> Title 04/10/9 Date	Janica 96 OR CERTIFICA	formation lete to the
							on this plat a actual survey supervisor, a correct to t A Date Survey Signature p Professions Professions	hy that the well loca was plotted from flex made by me or and that the same i he best of my best PRIL 8, 1996 AND STREAM PRIL 8, 1996 MEL Surveyor No. JOHN W. GHEST KOFE CAN FLOSON MANNESS	d notes of under my s true and ef. SJA <b>99-96</b> <b>4</b> 27

# APPLICATION TO DRILL

SOUTHWEST ROYALTIES INC. EILLIAMS "34" FEDERAL # 14 1650' FNL & 1980' 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. <u>Location:</u> 1650' FNL & 1980' FEL SEC. 34 T17S-R33E Lea Co. New Mexico
- 2. Elevation Above Sea Level: 4151 GR.
- 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 Anhydrite	1450'	Top Queen	3776'
Top of Salt	1605'	Top of Grayburg	4209 <b>'</b>
Base of Salt	2634	Top of San Andres	4510 <b>'</b>
Top of Yates	2926'		

## 7. Possible Mineral Bearing Formation:

Grayburg- San Andres

0i1

### 8. Casing Program:

Hole Size	Intreval	OD Csg	Weight	Thread	Collar	Grade	Cond.
26''	0-40	20	NA	NA	NA	NA	New
	€=40 ₩0-1500'	8 5/8"	24#	8-R	ST&C	J-55	New
7 7/8"	0-5500'	5½"	15.5#	8-R	ST&C	J <b>-</b> 55	New

### APPLICATION TO DRILL

SOUTHWEST ROYALTIES INC. EILLIAMS "34" FEDERAL # 14 1650' FNL & 1980' FEL SEC. 34 T17S-R33E LEA CO. NM

### 9. Cementing and Setting Depth:

20''	Conductor	Set 40' of 20" conductor cement to surface with Redi-Mix.
8 5/8"	Surface	Set 1500' of 8 5/8" 24# 8-R J-55 ST&C casing. Cement with 500 Sx. Halco light, tail in with 400 Sx. Class "C" + 2% CaCl circulate cement to surface.
5½"	Production	Set 5500' of $5\frac{1}{2}$ " 15.5# 8-R J-55 ST&C casing. Cement with 450 Sx. Premium Plus + .4% Fluid loss + 10#/Sx Micro Bond. Bring cement back

the base of Salt. Verify 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 annular type preventor, all 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.

### 11. Proposed Mud Circulating System:

Depth	Mud Wt.	Mud Visc.	Fluid Loss	Type Mud
40-1500'	8.6-9	30-35	NC	Fresh water spud mud
1500-5500;	10-10.2	29-34	NC	Brine water add Lime for pH control and paper to control seepage.

Sufficient mud materials to maintain mud properties, meet lost circulation and weight increase requirments will be kept at wellsite at all times. In order to run casing and log well viscosity may have to be raised and water loss may have to be lowered.

## APPLICATION TO DRILL

SOUTHWEST ROYALTIES INC. EILLIAMS ". 34" FEDERAL # 14 1650' FNL & 1980' FEL SEC: 34 LEA CO. NM T17S-R33E

#### Testing, Logging and Coring Program: 12.

- A. No planned DST'S
- B. Open Hole Logs: DLL/LDT-CNL from TD to 1500' with Gamma-Ray and Caliper from TD to Surface.
- C. No cores are planned & no Mud Logger will be used.

#### Potential Hazards: 13.

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H<sub>2</sub>S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 

Anticipated Starting Date and Duration of Operation: 14.

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 8-10 days. If production casing is run an additional 30 days to complete and construct surface facility and place well on production.

#### Other Facets of Operations: 15.

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The Grayburg-San Andres pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.



ARRANGEMENT SRRA

900 Series 3000 PSI WP

> EXHIBIT "E" B.O.P. SKETCH TO BE USED ON SOUTHWEST ROYALTIES INC. EILLIAMS "34" FEDERAL # 14 1650' FNL & 1980' FEL SEC. 34 T17S-R33E LEA CO. NM