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18. DISTANCE FROM T TO NEAREST WELL	L. DRILLING, COMPLETED.		520 POSED DEPTH		40	
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23.	PROPOS	ED CASING AND C	EMENTING PROGRAM	4		
SIZE OF BOLE		HT PER POOT	SETTING DEPTH		QUANTITI OF CEMER	13
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7-7/8"		<u>4# &amp; 32#</u> .5# & 17#	<u>3150'</u> 6000'	<u>1000 sx</u> 1st stag	<u>circulate to</u> e 300 sx	surface
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	sing and 8-5/8" casing					
IN ABOVE SPACE DESCRI deepen directionally, give pe	BE PROPOSED PROGRAM: If proposal is to trinent data on subsurface locations and measu	o deepen, give data on p red and true vertical dep	present productive zone an pths. Give blowout prevents	d proposed /new / er program if any.	productive zone. If pro	posal is to drill or
24. BIGNED	T Quice		AGENT	181		93
(This space for Fed	leral or State office use)			<del>X</del>	· ·····	
PERNIT NO.	-		ROVAL DATE			
Application approval does	not warrant or certify that the applicant holds I AL IPANY: "USED CASING S FOR HEW CAS;	egal or equitable title to the SHALL MEE	those rights in the subject lear	se which would en	utitle the applicant to cond STANDARD S	uct operations thereon.
APPROVED BY SR	on Dundon	(	EA MANAGER		ne MAR 1	1994
	*See	Instructions On	Revene 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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

DISTRICT I

DISTRICT III

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State of New Mexico

Form C-102 Revised 1-1-89

# Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

#### WELL LOCATION AND ACREAGE DEDICATION PLAT 1000 Rio Brazos Rd., Aztec, NM 87410

### All Distances must be from the outer boundaries of the section

Operator	SOUTHWEST R	OYALTIES	Lease	ALTHORN F		Well No.
Unit Letter	Section	Township	Dan			1
A	11	26 SOUTH	Range			County
Actual Footage Loca		1. 20 3001		29 EAST	NMPM	EDDY
660 feet	from the NO	RTH line and	467			the EAST line
Ground Level Elev.	Producing Fo	rmation	Pool	UND	feet from	the LASI line Dedicated Acreage:
	DELAW	ARE	NORTH-B	RUSHY_DRAW		
1. Outline the act	reage dedicated to	the subject well by colore			e plat below.	<u>40 Acres</u>
<ol> <li>If more than</li> <li>If more than</li> <li>unitization, fo</li> <li>Yes</li> </ol>	one lease is dedict one lease of differ orce-pooling, etc.? K No	ated to the well, outline en	ach and identify i to the well, ha e of consolidati	on	hereof (both of all owners	as to working interest and royalty).
CUTA TOLUT TECCARA	ry					
No allowable wil	Il be assigned to	the well unit all intere	ests have been	consolidated (	by commun	itization, unitization, forced-pooling
other wise) of un	un a non-standa	rd unit, eliminating such	interest, has	been approved b	y the Divisio	on.
		3018.2' 1 3002.8 <sup>j</sup>	3000.3' ○ I J <sub>2998.6</sub> .	Ogg L SEE DETAIL		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature JOE T. JANICA Position AGENT Company SOUTHWEST ROYALTIES IN Date 12/16/93 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under me supervison, and that the some is true as
0 330 660	990 1320 1850	1980 2310 2840	2000 1500	1000 500 YHIRTT "A"		certification in the best of my knowledge an belief. Date Surveyed DECEMBER 6, 1993 Signature & Seal of Professional Surveyor GARY L. JONES NEW MELTONES Certification No. Professional Surveyor Certification No. Professional Surveyor Surveyor Certification No. Professional Surveyor Surveyor Certification No. Professional Surveyor Surveyor Certification No. Professional Surveyor Survey

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ARRANGEMENT SRRA

900 Series 3000 PSI WP

> EXHIBIT "E" SOUTHWEST ROYALTIES, INC. BOP Sketch of typed to be used on Althorn Federal #1 Unit A 660' FNL & 467' FEL Section 11 T26S R29E Eddy Co., NM



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#### APPLICATION TO DRILL

### Southwest Royalties, Inc. AllThorn Section 11, Unit "A", T26S-R29E Eddy 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: 660' FNL, & 467' FEL Section 11, T26S-R29E, Eddy Co., New Mexico
- 2. <u>Elevation Above Sea Level:</u>
- 3. Geologic Name of Surface Formation: Quaternery Aeolian Deposits
- 4. <u>Drilling Tools and Associated Equipment:</u> Conventional rotary drilling rig using mud for the circulation medium.
- 5. Proposed Drilling Depth: 7200'
- 6. Estimated Geological Marker Tops:

Dewey Lake	300'	Delaware Sand	3210'
Rustler	600'	Cherry Canyon	4075'
Salado	1300'	Williamson Sand	5255'
Castille	1550'	Getty Sand	5350'
Base of Salt	2870'	<b>j</b>	3330
Delaware	3175'		

- 7. <u>Possible Mineral Bearing Formation:</u> Delaware 3175-7000' Oil
- 8. Casing Program:

Hole Size	Interval	OD Csg W	leight Thread Grade Condition
25"	0- 40	20"	Conductor .30 Wall New
17 1/2"	0- 600	13 <b>3/8"</b>	54.5# 8R J-55 ST&C Used (tested and inspected)
11	0- 3000	8 5/8"	24# & 32# 8R J-55 ST&C Used (tested and inspected)
7 7/8"	0- 7200	5 1/2"	15.5# & 17# 8R J-55 ST&C New

Application to Drill Southwest Royalties, Inc. AllThorn

9. <u>Cementing and Setting Depth:</u> 20" Conductor	Set @ 40' cement with readymix to surface.
13 3/8" Surface Casing	Set @ 600' cement with 750 sx Class "C" cement w/2% CaCl circulate to surface.
8 5/8" Intermediate Casing	Set @ 3150' cement with 1000 sx Light 65/35 Poz cement tailin w/200 sx of class "H" 1/4# flocele/sx. Circulate to surface.
5 1/2" Production Casing	Set @ TD 7200' DV tool @ 4500' cement lst stage w/300 sx 50/50 Poz + 6# salt /sx. Cement 2nd stage w/450 sx 50/50 Poz + 6# salt/sx. Tie back into 8 5/8 to 2850'.

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 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

### 11. Proposed Mud Circulating System:

for seepage	<u>Depth</u> 0- 600 600-7200		J- JU	Fluid Loss NC NC	Type Mud Fresh Water Brine water w/lime for pH control and pap for seepage
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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. AllThorn

12. Testing, Logging and Coring Programs:

- (A) Possible D.S.T. if shows dictate.
- (B) Open Hole Logs: DLLw/LDT-CNL from TD to 3000' 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.<u>Anticipated Starting Date and Duration of Operation</u>: Road and location construction will begin after BLM approval of APD. Anticipated spud date 01/20/94. Drilling expected to take 18 to 25 days. If production casing is run an additional 30 days to complete and construct surface facility and place well on production.

15.<u>Other Facets of Operations:</u> After running casing, cased hole gamma ray collar correlation logs will be run from total depth over possible pay intervals. The Delaware pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.

# CONTINGENCY PLAN SHOULD H<sub>2</sub>S BE ENCOUNTERED WHILE DRILLING

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and hazzards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H<sub>2</sub>S detectors, warning system and briefing areas.
  - E. Evacuation procedure, routes and first aid.
  - F. Proper use of 30 minute pressure demand air pack.

## 2. $H_2S$ Detection and Alarm Systems

- A. H<sub>2</sub>S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
  - A. Windsock at mudpit area should be high enough to be visible.
  - B. Windsock at briefing area should be high enough to be visible.
  - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H<sub>2</sub>S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
  - A. See exhibit "E"
- 6. Communication
  - A. While working under masks chalkboards will be used for communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
  - A. All testing will be done in daylight hours.
  - B. Exhausts will be watered
  - C. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
  - D. If location is near any dwelling a closed D.S.T. will be performed.

# CONTINGENCY PLAN SHOULD H2S BE ENCOUNTERED WHILE DRILLING

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H<sub>2</sub>S scavengers if necessary.

### SURFACE USE PLAN

Southwest Royalties, Inc. AllThorn Section 11, Unit "A", T26S-R29E Eddy County, New Mexico

- 1. EXISTING ROADS Area map, Exhibit "B", is a reproduction of the New Mexico General Hi-way Map. Existing and proposed roads are shown on the exhibit. All roads shall be maintained in a condition equal to or better than existed prior to the start of construction.
  - Exhibit "A" shows the proposed development well site as Α. staked.
  - From Malaga, New Mexico Post Office take US 285, go 12 miles Β. south, turn east on El Paso Pipeline road, go 4 miles to low water crossing, continue 3 miles east, turn north on lease road approximately 1.5 miles to location.
- 2. PLANNED ACCESS ROADS Approximately 700' of new access road will be constructed.
  - the access road will be crowned and ditched to a 12'00" wide Α. travel surface with a 40' right-of-way.
  - Gradient on all roads will be less than 5.00%. Β.
  - C. Turnouts will be constructed as necessary.
  - If needed, road will be surfaced with a minimum of 4" of caliche. D. This material will be obtained from a local source.
  - Centerline for the new access road has been flagged. Earthwork Ε. will be as required by field conditions.
  - Culverts in the access road will not be used. The road will be F. constructed to utilize low water crossings for drainage as required by the Topography.
  - 3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS Exhibit "A-1"
    - (A) Water wells -None known
    - (B) Disposal wells -None known
    - (C) Drilling wells -None known
    - (D) Producing wells-See Exhibit "A"-1
      (E) Abandoned wells-See Exhibit "A"-1

    - (F) Staked Location-See Exhibit "A"-1

SURFACE USE PLAN Southwest Royalties, Inc. AllThorn

- 4. If, upon completion, the well is a producer, Southwest Royalties, Inc. will furnish maps or plats showing On Well Pad facilities and Off Well Pad facilities (if needed) on a Sundry Notice before construction of these facilities starts.
- 5. LOCATION AND TYPE OF WATER SUPPLY

Water will be purchased locally from a commercial source and trucked over the access roads or piped in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIALS

If needed, construction materials will be obtained from the drill site's excavations or from a local source. These materials will be transported over the access route as shown on Exhibit "C".

- 7. METHODS FOR HANDLING WASTE DISPOSAL
  - A. 1. Drill cuttings will be disposed of in the reserve pit.
    - 2. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and deposited in an approved sanitary landfill.
    - 3. Salts remaining after completion of the well will be picked up by the supplier, including broken sacks.
    - 4. Sewage from trailer houses will drain into holes with minimum depth of 10'00". These holes will be covered during drilling and backfilled upon completion. A "porta John" will be provided for the rig crews. This will be properly maintained during the drilling operations and removed upon completion of the well.
  - B. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for backfilling. In the event drilling fluids will not evaporate in a reasonable period of time they will be transported by tank truck to a state approved disposal site. Pits will then be broken out to speed drying.

Water produced during testing of the well will be disposed of in the reserve pit. Oil produced during testing of the well will be stored in test tanks until sold and hauled from the site.

#### 8. ANCILLARY FACILITILS

No camps or airstrips will be constructed.

SURFACE USE PLAN Southwest Royalties, Inc. AllThorn

- 9. WELL SITE LAYOUT
  - A. Exhibit "D" shows the proposed well site layout.
  - B. This exhibit indicated proposed location of reserve and sump pits and living facilities.
  - C. Mud pits in the active circulating system will be steel pits and the reserve pit is proposed to be unlined, unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
  - D. If needed, the reserve pit is to be lined with polyethylene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.
  - E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.
- 10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM

If the well is a dry hole, the pad and road area will be contoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

SURFACE USE PLAN Southwest Royalties, Inc. AllThorn

### 11. OTHER INFORMATION

- A. The topography consists of isolated hills with a dip to the west toward the Pecos River valley (approximately 50' per mile.) Sandy soil Pleistocene age aeolian deposits, native grass with mesquite and catclaw.
- B. The surface is used to mainly access producing wells in the area and minimal grazing for livestock. It is administered by the BLM and is being leased to Brian W. Paschal, Box 1847, Pecos, TX 79772.
- C. An archaeologist study will be conducted for the location and new access road. The report will be submitted separately when completed.
- D. There is a ranch house approximately 1 mile southwest of location.
- 12. OPERATOR'S REPRESENTATIVE field representative for contact regarding compliance with the Surface Use Plan is:

Before and during construction:

After construction:

Natural Resources Engineering,	Inc.
P O Box 2188	
Hobbs NM 88241	
Office Phone (505)392-2112	
Joe T. Janica	

Southwest Royalties, Inc. P O Box 11390 Midland TX 79702 Office Phone (915)686-9927 Doug Keathley

13. CERTIFICATION - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Southwest Royalties Inc., its contractors/ subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of 18 U.S.C. 1001 for the filing of a false statement.

NAME fans 195 DATE TITLE :