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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

DISTRICT I

P.O. Box 1980, Hobbs, NA 86841-1980

DISTRICT II P.O. Brown BD, Artonic, MM 85211-0719

DISTRICT III 1000 Bio Branos Rd., Astec, NM 67410

DISTRICT IV P.O. BOX 2006, SANTA FR. N.M. 87504-2088 State of New Mexico

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Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 5 Copies

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

I AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. 20 TWP. 22-S RGE. 36-E

 SURVEY
 N.M.P.M.

 COUNTY
 LEA

 DESCRIPTION
 990' FSL & 1980' FWL

 ELEVATION
 3534'

 OPERATOR
 SOUTHWEST

 ROYALTIES
 INC.

 LEASE
 CITIES

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

LOCATION VERIFICATION MAP



SOUTHWEST ROYALTIES INC. Cities Federal # 5 990' FSL & 1980' FWL SEC. 20 T22S-R36E 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: 990' FSL & 1980' FWL SEC. 20 T22S-R36E LEA CO. NEW MEXICO
- 2. Elevation above sea level: 3296' GR.

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- 3. Geologic name of surface formation: Quaternery Aeolien Deopsits.
- 4. Drilling tools and associated equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5. Proposed drilling depth: 4200'

6. Estimated tops of geological markers:

Rustler Anhydrite	1450'	Yates	3296'
Top Salt	1650'	Seven Rivers	3518'
Base of Salt	3148'	Queen	3778'

7. Possible mineral bearing formation:

Yates		Gas
Seven	Rivers	Gas
Queen		0 i 1

8. Casing program:

Hole size	Interval	OD casing	Weight	Thread	Collar	Grade	Condition
26"	0-40	20"	NA	NA	NA	Conductor	New
12 ¹ / ₄ "	0-450'	8 5/8"	24#	8-R	ST&C	J- 55	New
7 7/8"	0-4200'	5 ¹ ₂ ''	15.5#	8-R	S'T&C	J-55	New

SOUTHWEST ROYALTIES INC. CITIES FEDERAL # 5 990' FSL & 1980' FWL SEC. 20 T22S-R36E LEA CO. NM

9. Cementing and setting depth:

20"	Conductor	Set 40'of 20" conductor and cement to surface with Redi-Mix.
8 5/8"	Surface	Set 450' of 8 5/8" J-55 24# ST&C casing. Cement with 450 Sx. Class "C" + 2% CaCl + 埕# Flocele/Sx. circulate cement to surface.
5½"	Production	Set 4200' of $5\frac{1}{2}$ " J-55 15.5# ST&C casing. Cement with 275 Sx. Halco Light + $\frac{1}{4}$ # Flocele /Sx. tail in with 400 Sx. Class "C" POZ + 2% CaCl + .4% Halad 9 + .3% CFR2 + 4# Salt/Sx. + $\frac{1}{4}$ 3 Flocele/Sx. circulate cement to surface.

10. Pressure control equipment: Exhibit "E" shows a skematic of the type of a BOP that will be used on this well. (900 Series 3000 PSI working Pressure) This preventor will consist of double rams and a bag type preventor. The will be hydraulically operated closing unit that is shown on Exhibit "E-1". Blind rams on top and pipe rams on bottom corrosponding to the size drillpipe being used. The BOP will be nippled up on the 8 5/8"casing and will remain on well till casing is run and cemented. The BOP will be worked once each day while drilling and blind rams will be worked on trips when drillpipe is out of hole. Flow sensors, PVT, full opening stabbing valve and upper kelley cock will be utilized.

Depth	Mud Wt.	Mud Visc.	Fluid Loss	Type Mud
40-450'	8.4-8/8	30-38	NC	Fresh water spud mud add paper to control seepage
450 4200'	10.2-10.5	. 30-38	NC	Brine water add salt water Gel for viscosity if needed Starch for water loss control if necessary to log well and run casing.

11. Proposed Mud Circulating System:

Sufficient mud materials to maintain mud properties, meet lost circulation and weight increase requirements will be kept at the wellsite at all times. In order to log well run casing or run DST'S the viscosity and water loss may have to be altered.

SOUTHWEST ROYALTIES INC. CITIES FEDERAL # 5 990' FSL & 1980' FWL SEC. 20 T22S-R36E LEA CO. NM

12. Testing, Logging and Coring Program:

- A. No DST'S or cores are planned on this well.
- B. No mud logger will be used.
- C. Open hole logs, Dual-Laterlog, SNP, FDC, Caliper from TD to 450', Gamma Ray from TD to surface.

13. Potential Hazards:

14. Anticipated Starting Date and Duration of Operation:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 8-12 days. If production casing is run an additional 30 days to complete and construct surface facility and place well on production.

15. Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The <u>Yates, 7 Rivers</u> Oueen pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H_2S
 - B. Physical effects and hazzards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H2S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
- 2. H₂S Detection and Alarm Systems
 - A. H₂S 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, H₂S 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.

- 8. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9. If H₂S 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 H₂S scavengers if necessary.

SOUTHWEST ROYALTIES INC. CITIES FEDERAL # 5 990' FSL & 1980' FWL SEC. 20 T22S-R36E LEA CO. NM

- 1. EXISTING ROADS. Area map, Exhibit "B" is a reproduction of the New Mexico General Hi-way Co. Map. Exhibit "C" is a reproduction of a topographic map. Existings roads and proposed roads are shown on each exhibit. All roads will be maintained in a condition equal to or better than existed prior to start of construction.
 - A. Exhibit "A" shows the proposed development well as staked.
 - B. From New Mexico High-way junction of 234 and 209 in Eunice New Mexico go South 2.5 miles, turn West on Delaware Road and go 7.1 miles, turn South on lease road go 1.85 miles then turn West and go .3 miles to location.
 - C. Construct powerlines and lay pipelines along road or along existing Rightof-ways nessary for the production of oil and gas from this lease.

PLANNED ACCESS ROADS: Approximately 1500' of new road will be constructed. 2.

- A. The access road will be crowned and ditched to a 12'00" wide travel surface with 40' right-of-way.
- B. Gradient on all roads will be less than 5.00%.
- C. No turnouts will be necessary.
- D. If needed, road will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
- E. Centerline for the new access road has been flagged. Earthwork will be as required by field conditions.
- F. Culverts in the access road will not be used. The road will be constructed to utilize low water crossings for drainage as required by the Topography.
- LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1" 3.
 - None known A. Water wells -None known B. Disposal wells -None known C. Drilling wells -As shown on Exhibit "A-1" D. Producing wells -11 ** 11 11 E. Abandoned wells -

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SURFACE USE PLAN

SOUTHWEST ROYALTIES INC. CITIES FEDERAL # 5 990'FSL & 1980'FWL SEC. 20 T22S-R36E LEA CO. NM

- 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 private 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 "A".

- 7. METHODS FOR HANDLING WASTE DISPOSAL
 - A. 1. Drill cuttings will be disposed of in the reserve pit.
 - 2. Trash, waste paper, and garbage will either be contained in a fenced trash trailer or in a trash pit, fenced with mesh wire to prevent wind-scattering during storage. When the rig moves out, all trash and debris left at the site will be contained to prevent scattering and will be buried at least 36" deep within a reasonable period of time.
 - 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.

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. CITIES FEDERAL # 5 990' FSL & 1980' FWL SEC. 20 T22S-R36E LEA CO. NM

9. WELL SITE LAYOUT

- A. Exhibit "D" rig site layout.
- B. This exhibit indicates proposed location of reserve and trash 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 PVC or polyethylene line. 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 standards.

If the well is a dry hole, the pad and road area will be recountered 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. CITIES FEDARAL # 5 990' FSL & 1980' FWL SEC. 20 T22S-R36E LEA CO, NM

11. OTHER INFORMATION

- A. Topography consists of low stabilezed sand dunes, vegetation consists of native grasses and Mesquite and shinnery oak.
- B. The surface is used for livestock grazing and is owned by the BLM Department of the Interior. The surface grazing lessee is Millard Deck Loop 18, Eunice New Mexico.
- C. An archaeologist study will be conducted for the location and new access road. The report will be submitted separately when completed.
- D. No dwellings within 2 miles of location.
- 12. OPERATOR'S REPRESENTATIVE:

After APD is approved:

Before Construction:

Tierra Exploration Inc. P. O. Box 2188 Hobbs, New Mexico 88241 Office Phone 505-392-2112 Joe T. Janica Southwest Royalties Inc. P.O. Box 11390 Midland, Texas 79702 Office Phone 915-686-9927 Nelson Patton

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.

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- Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- Briefing Areas
- Remote BOP Closing Unit
- Sign and Condition Flags

EXHIBIT "D" RIG LAYOUT PLAT SOUTHWEST ROYALTIES INC. CITIES FEDERAL # 5 990' FSL & 1980' FWL SEC. 20 T22S-R36E LEA CO. NM



ARRANGEMENT SRRA

900 Series 3000 PSI WP

> EXHIBIT "E" B.O.P. SKETCH TO BE USED ON SOUTHWEST ROYALTIES INC. CITIES FEDERAL # 5 990' FSL & 1980' FWL SEC. 20 T22S-R36E LEA CO. NM





