(July 1.92) BOX 1	ONS. COMMI		NO. 1936	55. 28 i sc 29 i s 10	ATE · FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995 5. LEASE DESIGNATION AND EMELAL NO NM-94189
	LICATION FOR		30.025-3	<u>3600</u> -	6. IF INDIAN, ALLOTTED OR TRIDE NAM
1a. TIPE OF WORK		_= DEEPEN	]		7. UNIT AGREEMENT BAND
b. TIPE OF WELL	0 <b>18</b>		SINGLE X	MULTIPLE	S. FARM OR LEASE NAME, WELL NO.
WELL LX 2. NAME OF OPERATOR	WELL OTHER		SONE LA	SONE L	Wyatt "A" Federal # 1
	DYALTIES INC.	(Nels	son Patton)		9. API WELL NO.
P.O. BOX 11	NO. 390 MIDLAND, TEX	KAS 79702	915-686-0027		10. FIELD AND POOL, OR WILDCAT
. LOCATION OF WELL	(Report location clearly an	d in accordance with	any State requirements	<b></b> )	MALJAMAR
At surface 1650 <sup>†</sup> FNL & At proposed prod.	990' FWL SEC. 34 Same	T17S-R33E	Lea Co. NM		11. BBC., T., R., M., OB BLK. AND BUEVEY OF AREA Sec. 34 T17S-R33E
	S AND DIRECTION FROM NEA				12. COUNTY OR PARISH 18. STATE
8 Miles Sout	heast of Maljama		) 16. No. of Acres in Li		LEA CO. NM
LOCATION TO NEAR PROPERTY OR LEAS	IST I LIN <b>I, F</b> T.	990'	160	T	40
S DISTANCE FROM PI			19. PROPOSED DEPTH	20. 80	TARY OR CABLE TOOLS
OR APPLIED FOR. ON	THIS LEASE, FT.	320'	5500'		Rotary
1. ELEVATIONS (Show	whether DF, RT, GR, etc.)	4126 GR			As soon as approved
3.		4920	G AND CEMENTING PI	ROGRAM	
BIZE OF BOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO			QUANTITY OF CEMENT
26"	Coductor Pipe	NA	40'	Cemer	t to Surface/W Redi-mix
121/11	J-55 8 5/8"	24#	1500'		Sx. Halco Light + 400 Sx.
7 7/8"	J-55 5 <sup>1</sup> / <sub>2</sub> "	15.5	5500''	<u> </u>	<u>Sx. Halco Light + 250 Sx.</u> s "C" + additives
with Redi- 2. Drill 12¼" Cement wit		Run and set Light + addi	1500' of 8 5/8	3" 24# J-5	
Cement wit	h 350 Sx. Halco	Light with l	O# Salt/Sx. ta	il in wit	9-55 ST&C casing. Th 250 Sx. of Class 1400'. Verify with
<b>0</b> -		Atteched	etions.	e some and promo	sed new productive zone. If proposal is to drill o
	IBE PROPOSED PROGRAM: If	proposal is to deepen, giv ns and measured and true	vertical depths. Give blowo	ut preventer progra	m, it any.
ABOVE SPACE DESCR. epen directionally, give p	rtinent data on subsurface location				2.11 Miles
ABOVE SPACE DESCR epen directionally, give p	rtinent data on subsurface location	LECE TITLE	Agent		DATE 08/20/96
spen directionally, give p	rtinent data on subsurface location	TITLE	Agent		6, <sup>11</sup>

Timothy P. O'Brien	mai Artion Area Manager	DATE	1995 A 3 1995
APPROVED BY	*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 United States any false forcitious or frauditient statements or representations as to any matter within its jurisdiction.

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

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, Minerais 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

30 02	Number	5600	433	Pool Code 29	Ν	Pool Name MALJAMAR GRAYBURG SAN ANDRES				
Property 19368	Code			Property Name WYATT A FEDERAL				Well Number		
ogrid n 021355	o.			Operator Name SOUTHWEST ROYALTIES, INC.				Elevation 4126'		
					Surface Loca	ation				
UL or lot No. E	Section 34	Township 17 S	Range 33 E	Lot Idn	Feet from the 1650	North/South line NORTH	Feet from the 990	East/West line WEST	<b>County</b> LEA	
			Bottom	Hole Loc	cation If Diffe	rent From Sur	face	1	I	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre 40	s Joint o	r Infill Con	nsolidation	Code Ore	der No.			<u> </u>		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		OPERATOR CERTIFICATION
		I hereby certify the the information
		contained herein is true and complete to the best of my knowledge and betief.
6550		
		for fances
K - 1 4 4365 - 1 4 97.2'		Signature
990		Joe T. Janica
		Printed Name
4112.7 4118.7		Agent
		<sup>Tiue</sup> 08/20/96
		Date
unin	1	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 my supervison, and that the same is true and
		correct to the best of my belief.
		AUGUST 14, 1996
		Date Surveyed COG
		Professional Surveyor
	1	15/2 - 2
		Home Mar Di B- Duran
		Fons & 1 7 11 07 8-16-96
		10 X20-1-NUM
		Cartinone No. JOHN WYEST 676
		CFESSION 12541

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#### State of New Mexico

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## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code Pool N		
	43329	MALJAMAR GRAYBURG SAN ANDRE	S
Property Code		operty Name	Well Number
19368	TAYW	1	
OGRID No.	Ope	erator Name	Elevation
021355	SOUTHWEST	4126'	

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	34	17 S	33 E		1650	NORTH	990	WEST	LEA

Bottom Hole Location If Different From Surface

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 o	r Infill Co	nsolidation	Code Or	der No.	<u> </u>	<u> </u>	[	
40									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



# VICINITY MAP



SCALE: 1'' = 2 MILES

SEC. <u>34</u> TWP. <u>17-S</u> RGE. <u>33-E</u> SURVEY <u>N.M.P.M.</u> COUNTY <u>LEA</u> DESCRIPTION <u>1650' FNL & 990' FWL</u> ELEVATION <u>4126'</u> OPERATOR <u>SOUTHWEST ROYALTIES, INC.</u> LEASE <u>WYATT A FEDERAL</u>

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

# LOCATION VERIFICATION MAP



DOG LAKE, N.M.

## APPLICATION TO DRILL

SOUTHWEST ROYALTIES INC. WYATT "A" FEDERAL # 1 1650' FNL & 990' FWL 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: 1650' FNL & 990' FWL Sec. 34 T17S-R33E Lea Co. New Mexico
- 2. Elevation Above Sea Level: 4126'
- 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: 5500'
- 6. Estimated Geological Marker Tops:

.

# 7. Possible Mineral Bearing Formation:

Grayburg- San Andres 011

## 8. Casing Program:

Hole Size	Intreval	OD Csg	Weight	Thread	Collar	Grade	Cond.
26"	0-40	20	NA	NA	NA	NA	New
20 12½''		-• 8 5/8"	24#	8-R	ST&C	J-55	New
	1500-5500'		15.5#	8-R	ST&C	J-55	New

## APPLICATION TO DRILL

SOUTHWEST ROYALTIES INC. WYATT "A" FEDERAL # 1 1650' FNL & 990' FWL SEC. 34 T17S-R33E LEA CO. NM

## 9. Casing Cementing & Setting Depth:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
8 5/8"	Surface Casing	Set 1500' of 8 5/8" 24# J-55 8-R ST&C casing. Cement with 500 Sx. Halco Light tail in with 400 Sx. Class "C" + 2% CaCl circulate cement to surface.
5½''	Production Casing	Set 5500' of $5\frac{1}{2}$ " 15.5# J-55 8-R ST&C casing. Cement with 400 Sx. of Halco Light tail in with 350 Sx. Premium Plus + .4% F1 + 10# M-cro Bond/Sx. Bring cement back to 1400' and verify with log.

10. Pressure Control Equipment: Exhibit "E" shows a Blow-out preventor sketch. A 900 series preventor 3000 PSI working pressure consisting of double rams with an annular type preventor will be used on this well all units will be hydraulically operated. Blind rams on top, pipe rams on bottom to corrospond to the size drill pipe being used. The BOP will be nippled up on 8 5/8" casing and remain on well until production casing is run and cemented. BOP will be worked at least once daily and blind rams will be worked on trips when drill pipe is out of hole. The BOP will be tested as well as the choke manifold to API specs. Exhibit "E-1" shows the choke manifold and closing unit. Flow sensor PVT, full opening stabbing valve and upper kelley cock will be utilized.

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

11. Proposed Mud Circulating System:

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

### APPLICATION TO DRILL

SOUTHWEST ROYALTIES INC. WYATT "A" FEDERAL # 1 1650' FNL & 990' FWL SEC. 34 T17S-R33E LEA CO. NM

## 12. Testing, Logging and Coring Program:

- 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.

## 13. Potential Hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered,  $H_2S$  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 2000 PSI, estimated BHT  $120^{\circ}$ .

# 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  $\frac{8-10}{10}$  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>Grayburg-San Andres</u> pay will be perforated and stimulated. The well will be swab tested and potentialed as

## CONTINGENCY PLAN SHOULD H2S BE ENCOUNTERED WHILE DRILLING

- 1. All Company and Contract personnel admitted on location must be trained by a qualified  $H_2S$  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 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<sub>2</sub>S 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  $H_2S$  BE ENCOUNTERED WHILE DRILLING

- 8. Drilling contractor supervisor will be required to be familiar with the effects H<sub>2</sub>S 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.

SOUTHWEST ROYALTIES INC. WYATT "A" FEDERAL # 1 1650' FNL & 990' FWL SEC. 34 T17S-R33E LEA CO. NM

- 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 esisted prior to start of construction.
  - A. Exhibit "A" shows the proposed development well as staked.
  - B. Take High-way 62-180 west out of Hobbs to junction of State High-way 529. Turn right take 529 West for 2.4 miles to Co road 238 turn North go 10.9 miles to Co. road 125 turn West go 8.5 mi., Turn South go .7 mi., Turn West .25 mi, Turn South go .15 mi to location on East side of road.
  - C. Produced water flow line will be laid along road ROW from Wyatt "A" Federal # 1 to a point 2173' FWL & 467' FNL SEC.34.
  - D. Flow line that is across location will be re-routed.
- 2. PLANNED ACCESS ROADS: None Required.
  - 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 Lopography.
- 3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"

Α.	Water wells -	Not	ne knov	vn		
B.	Disposal wells -	As	shown	on	Exhibit	"A-1"
с.	Drilling wells -	"	11	11	11	11
D.	Producing wells -	"		11	11	11
E.	Abandoned wells -	11	u.	11	**	11

SOUTHWEST ROYALTIES INC. WYATT "A" FEDERAL # 1 1650' FNL & 990' FWL SEC. 34 T17S-R33E 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 commercial source and trucked over the access roads or piped in flexible lines laid on top of the s 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.

SOUTHWEST ROYALTIES INC. WYATT "A" FEDERAL # 1 1650' FNL & 990' FWL SEC. 34 T17S-R33E LEA CO. NM

### 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 standards.

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.

SOUTHWEST ROYALTIES INC. WYATT "A" FEDERAL # 1 1650' FNL & 990' FWL SEC. 34 T17S-R33E LEA CO. NM

### 11. OTHER INFORMATION:

- A. The topography consists of flat low dip Caliche and Limestone caprock of the Mescalero Ridge. Dip is 10' to 15' per mile to the West. Vegetation is native grasses and mesquite.
- B. The surface is used primarily for grazing livestock and lease roads for access to producing oil and gas wells.
- C. The surface is owned by Gary Caviness, East Star Route, Maljamar New Mexico 88264. Phone 505-676-4201. The minerals are owned by the U. S. Department of Interior.
- D. An archaeological survey will be conducted on the road and location and the results will be sent to the BLM in Carlsbad New Mexico.
- E. There are no dwellings within 2 miles of this location.

#### 12. OPERATOR'S REPRESENTATIVE:

Before APD is approved:After APD is approved:Tierra Exploration Inc.Southwest Royalties Inc.P.O. Box 2188P.O. Box 11390Hobbs, New Mexico 88241Midland, Texas 79702Office Phone 505=392-2112Office Phone 915-686-9927Joe T. JanicaNelson 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, are true and correct; and that the 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.

auce NAME: Agent TITLE 08/20/96 DATE

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ARRANGEMENT SRRA

900 Series 3000 PSI WP

> EXHIBIT "E" B.O.P. SKETCH TO BE USED ON SOUTHWEST ROYALTIES INC. WYATT "A" FEDERAL #1 1650' FNL & 990' FWL SEC T17S-R33E LEA CO



Typical choke manifold assembly for 3M WP system







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