

Form 3160-3
(July 1992)

N.M. OIL CONS. COMM. ON
P.O. BOX 1980
HORRIS, NEW MEXICO 88040

BUREAU OF

APPLICATION FOR PERMIT

OPER. OGRID NO. 21355
PROPERTY NO. 19368
POOL CODE 43329
EFF. DATE 9/23/96
APR NO. 30-025-33600

ICATE
18 00

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

B. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

SOUTHWEST ROYALTIES INC.

(Nelson Patton)

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 11390 MIDLAND, TEXAS 79702 915-686-0027

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1650' FNL & 990' FWL SEC. 34 T17S-R33E Lea Co. NM

At proposed prod. zone

Same

Unit E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

8 Miles Southeast of Maljamar New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)

990'

16. NO. OF ACRES IN LEASE

160

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1320'

19. PROPOSED DEPTH

5500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4126 GR.

22. APPROX. DATE WORK WILL START*

As soon as approved

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	Conductor Pipe	NA	40'	Cement to Surface/W Redi-mix
12 1/2"	J-55 8 5/8"	24#	1500'	500 Sx. Halco Light + 400 Sx. "
7 7/8"	J-55 5 1/2"	15.5	5500"	350 Sx. Halco Light + 250 Sx. "
				Class "C" + additives

1. Drill 26" hole to 40' and set 40' of 20" Conductor Pipe and cement to surface with Redi-mix.
2. Drill 12 1/2" hole to 1500'. Run and set 1500' of 8 5/8" 24# J-55 ST&C casing. Cement with 500 Sx. Halco Light + additives tail in with 400 Sx. Class "C" + additives circulate cement to surface.
3. Drill 7 7/8" hole to 5500'. Run and set 5500' of 5 1/2" 15.5# J-55 ST&C casing. Cement with 350 Sx. Halco Light with 10# Salt/Sx. tail in with 250 Sx. of Class "C" + additives, tie into 8 5/8" casing bring cement back to 1400'. Verify with log.

Special Agreements and
Special stipulations
Attached

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Det. James

TITLE Agent

DATE 08/20/96

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Timothy P. O'Brien

TITLE

Acting Area Manager

DATE

SEP 13 1996

*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, fictitious or fraudulent 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, 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

API Number 30-025-33600	Pool Code 43329	Pool Name MALJAMAR GRAYBURG SAN ANDRES
Property Code 19368	Property Name WYATT A FEDERAL	Well Number 1
OGRID No. 021355	Operator Name SOUTHWEST ROYALTIES, INC.	Elevation 4126'

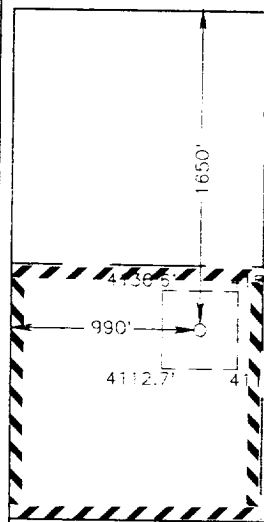
Surface Location

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	County LEA
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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 40	Joint or Infill	Consolidation Code	Order No.						

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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Joe T. Janica</i> Signature Joe T. Janica Printed Name Agent Title 08/20/96 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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 supervision, and that the same is true and correct to the best of my belief.</p> <p>AUGUST 14, 1996 Date Surveyed Signature & Seal of Professional Surveyor <i>Ronald E. Eidsen</i> Certificate No. JOHN WEST 676 RONALD EIDSEN 3234</p>
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P.O. Box 1980, Hobbs, NM 88241-1980

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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 - 3 Copies

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P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool Code	Pool Name
		43329	MALJAMAR GRAYBURG SAN ANDRES
Property Code	Property Name		Well Number
19368	WYATT A FEDERAL		1
OGRID No.	Operator Name		Elevation
021355	SOUTHWEST ROYALTIES, INC.		4126'

Surface Location

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

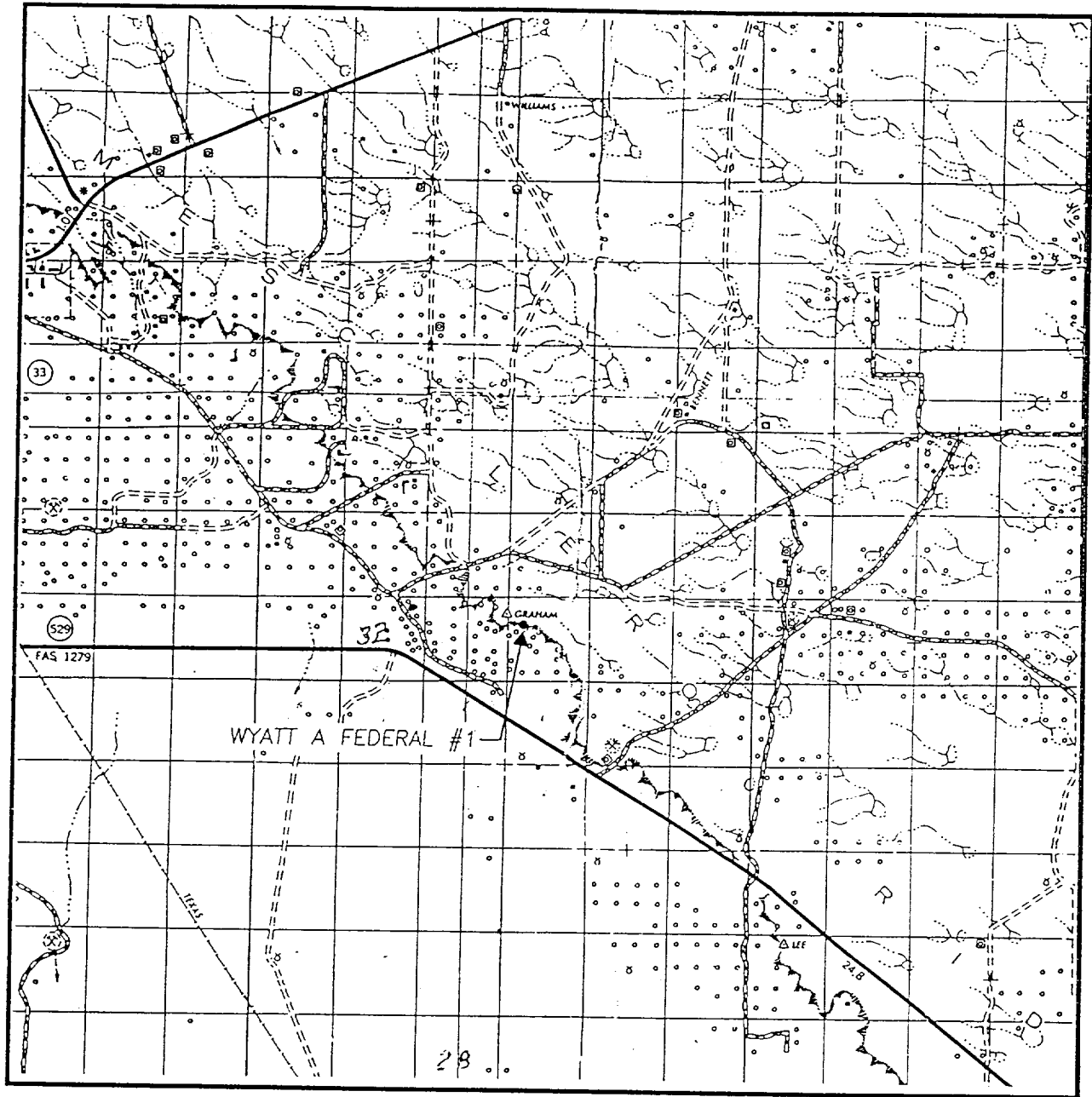
Bottom Hole Location If Different From Surface

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 or Infill	Consolidation Code		Order No.				
40									

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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 belief. Signature: <i>Joe T. Janica</i> Printed Name: Joe T. Janica Agent Title: 08/20/96 Date:
	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 supervision, and that the same is true and correct to the best of my belief. AUGUST 14, 1996 Date Surveyed: 08/14/96 Signature & Seal of Professional Surveyor: <i>John W. Wess</i> Certificate No. JOHN W. WESS 676 BONNIE DAWSON 3259 GARY MASON 12641

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 34 TWP. 17-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1650' FNL & 990' FWL

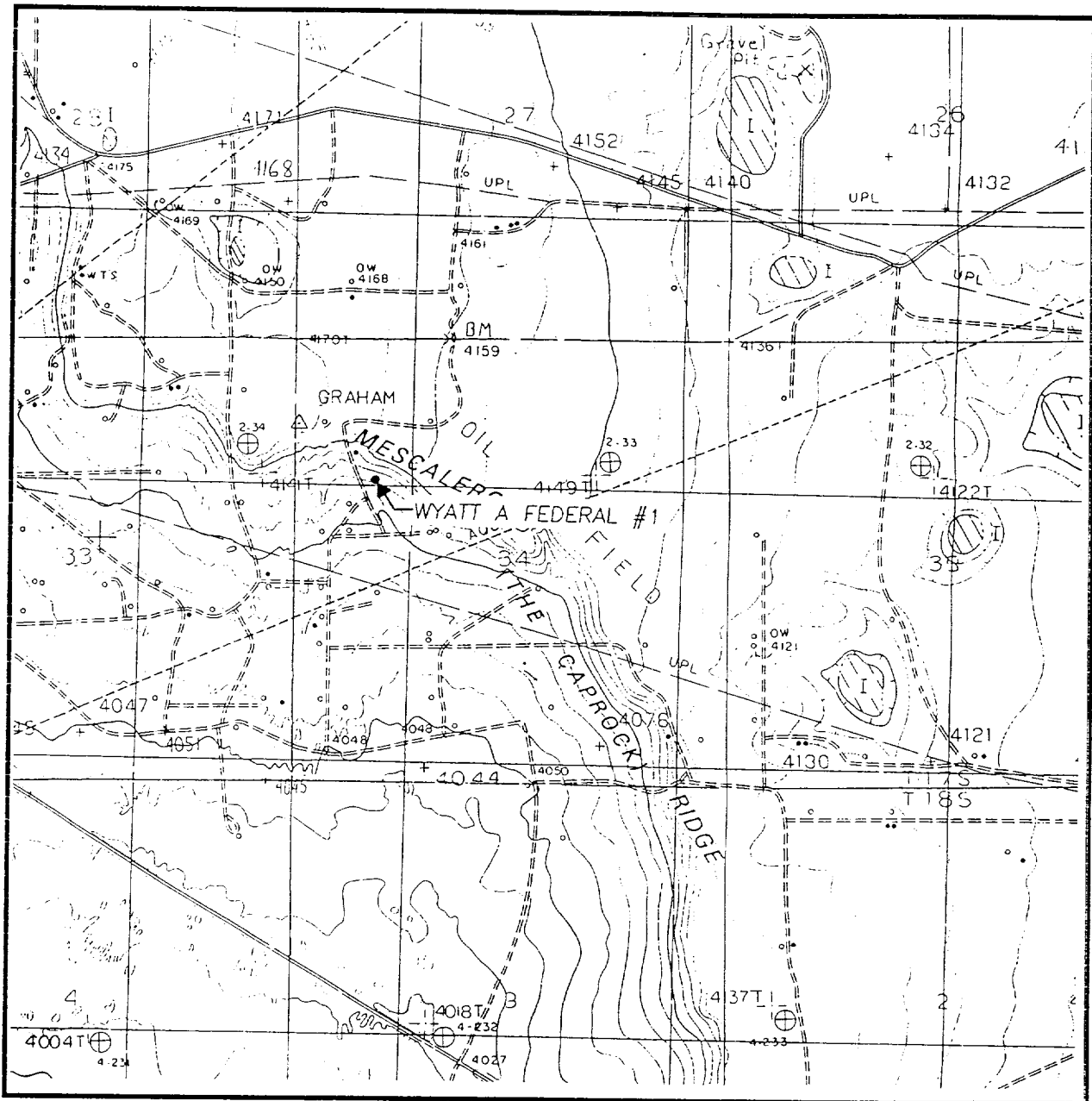
ELEVATION 4126'

OPERATOR SOUTHWEST ROYALTIES, INC.

LEASE WYATT A FEDERAL

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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
DOG LAKE - 10'
WITH 5' SUPPLEMENTAL

SEC. 34 TWP. 17-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1650' FNL & 990' FWL

ELEVATION 4126'

OPERATOR SOUTHWEST ROYALTIES, INC.

LEASE WYATT A FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

DOG LAKE, N.M.

JOHN WEST ENGINEERING
HOBBS, NEW MEXICO

(505) 393-3117

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: Quaternary 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'
Base of Salt	2634'	Top of San Andres	4510'
Top of Yates	2926'		

7. Possible Mineral Bearing Formation:

Grayburg- San Andres Oil

8. Casing Program:

Hole Size	Interval	OD Csg	Weight	Thread	Collar	Grade	Cond.
26"	0-40	20	NA	NA	NA	NA	New
12 1/4"	0-1500'	8 5/8"	24#	8-R	ST&C	J-55	New
7 7/8"	1500-5500'	5 1/2"	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 5½" 15.5# J-55 8-R ST&C casing. Cement with 400 Sx. of Halco Light tail in with 350 Sx. Premium Plus + .4% Fl + 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 correspond to the size drill pipe being used. The BOP will be nipped 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.

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 use paper for seepage.
1500-5500'	10-10.2	29-34	NC	Brine water add lime for pH control and paper for seepage control

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, H₂S 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° .

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 8-10 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 Grayburg-San Andres pay will be perforated and stimulated. The well will be swab tested and potential as

CONTINGENCY PLAN SHOULD H₂S BE ENCOUNTERED WHILE DRILLING

1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - 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 blowie line (mud pit) and on derrick floor or doghouse.
3. Windsack and/or wind streamers
 - A. Windsack at mudpit area should be high enough to be visible.
 - B. Windsack at briefing area should be high enough to be visible.
 - C. There should be a windsack 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 telephones 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 H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.

SURFACE USE PLAN

SOUTHWEST ROYALTIES INC.

WYATT "A" FEDERAL # 1

1650' FNL & 990' FWL SEC. 34

T17S-R33E

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. Existing 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. 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 topography.
3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"
 - A. Water wells - None known
 - B. Disposal wells - As shown on Exhibit "A-1"
 - C. Drilling wells - " " " " "
 - D. Producing wells - " " " " "
 - E. Abandoned wells - " " " " "

SURFACE USE PLAN

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 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 FACILITIES

No camps or airstrips will be constructed.

SURFACE USE PLAN

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.

SURFACE USE PLAN

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:

Tierra Exploration Inc.
P.O. Box 2188
Hobbs, New Mexico 88241
Office Phone 505-392-2112
Joe T. Janica

After APD is approved:

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, are 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:

TITLE:

DATE:

Agent

08/20/96

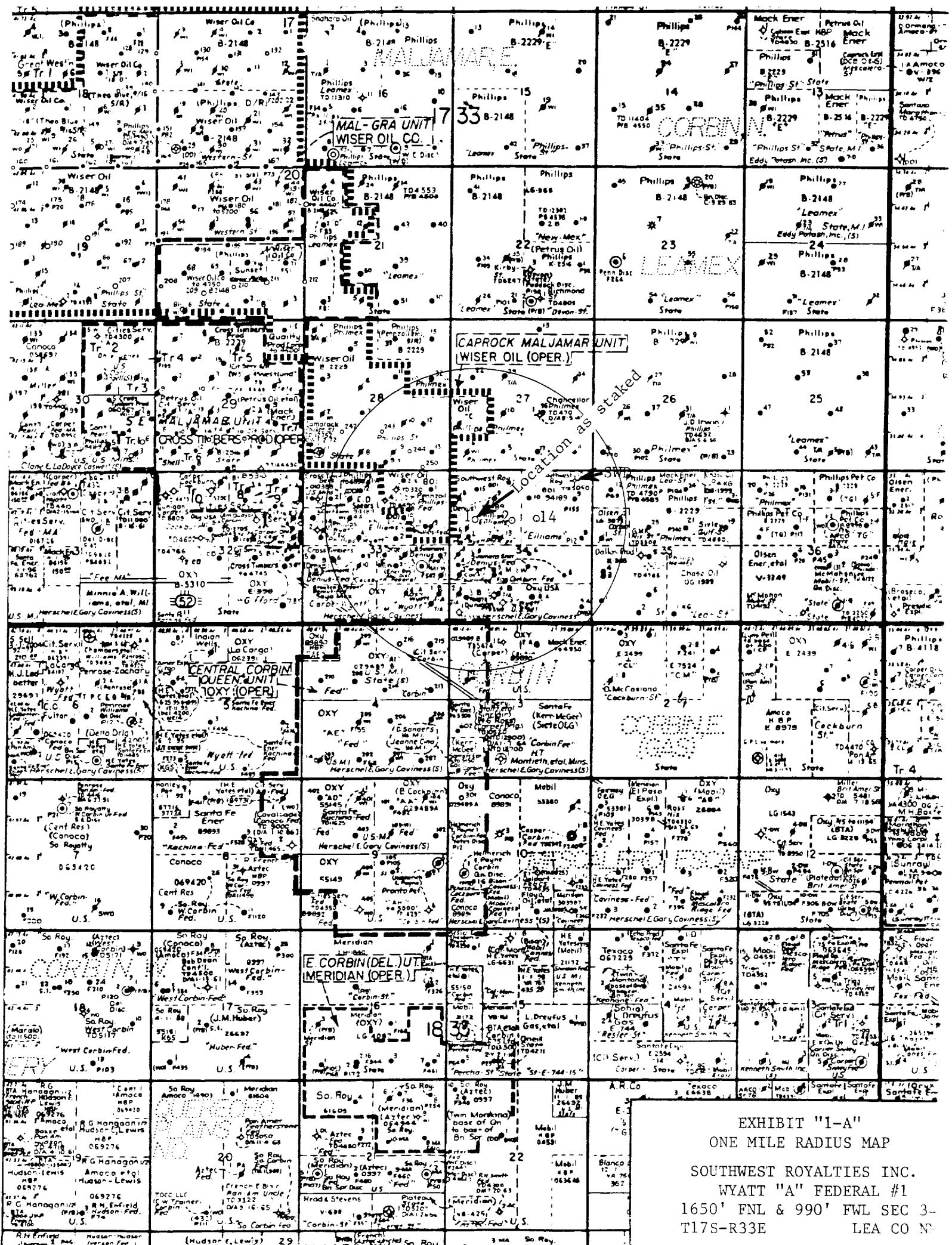
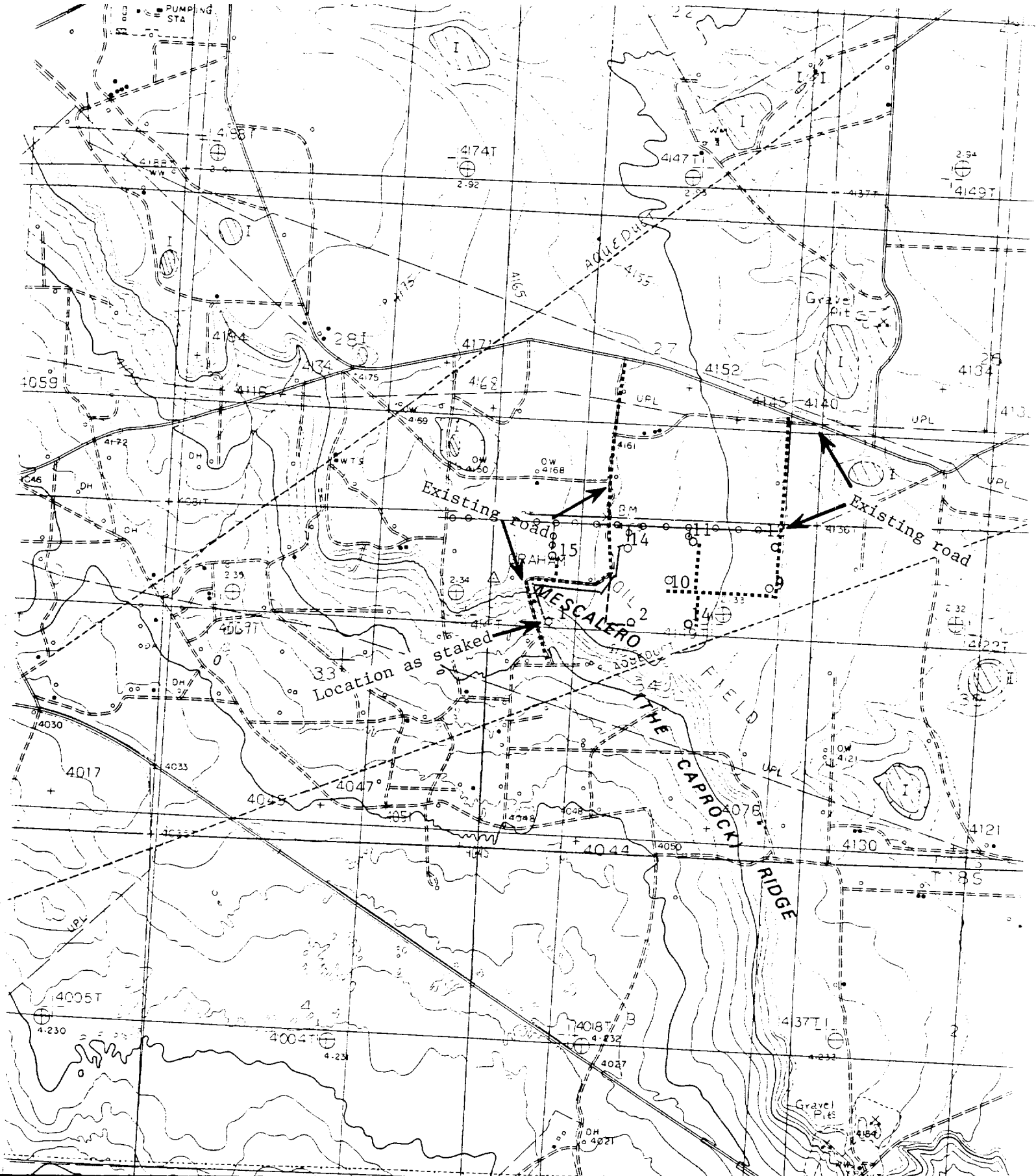


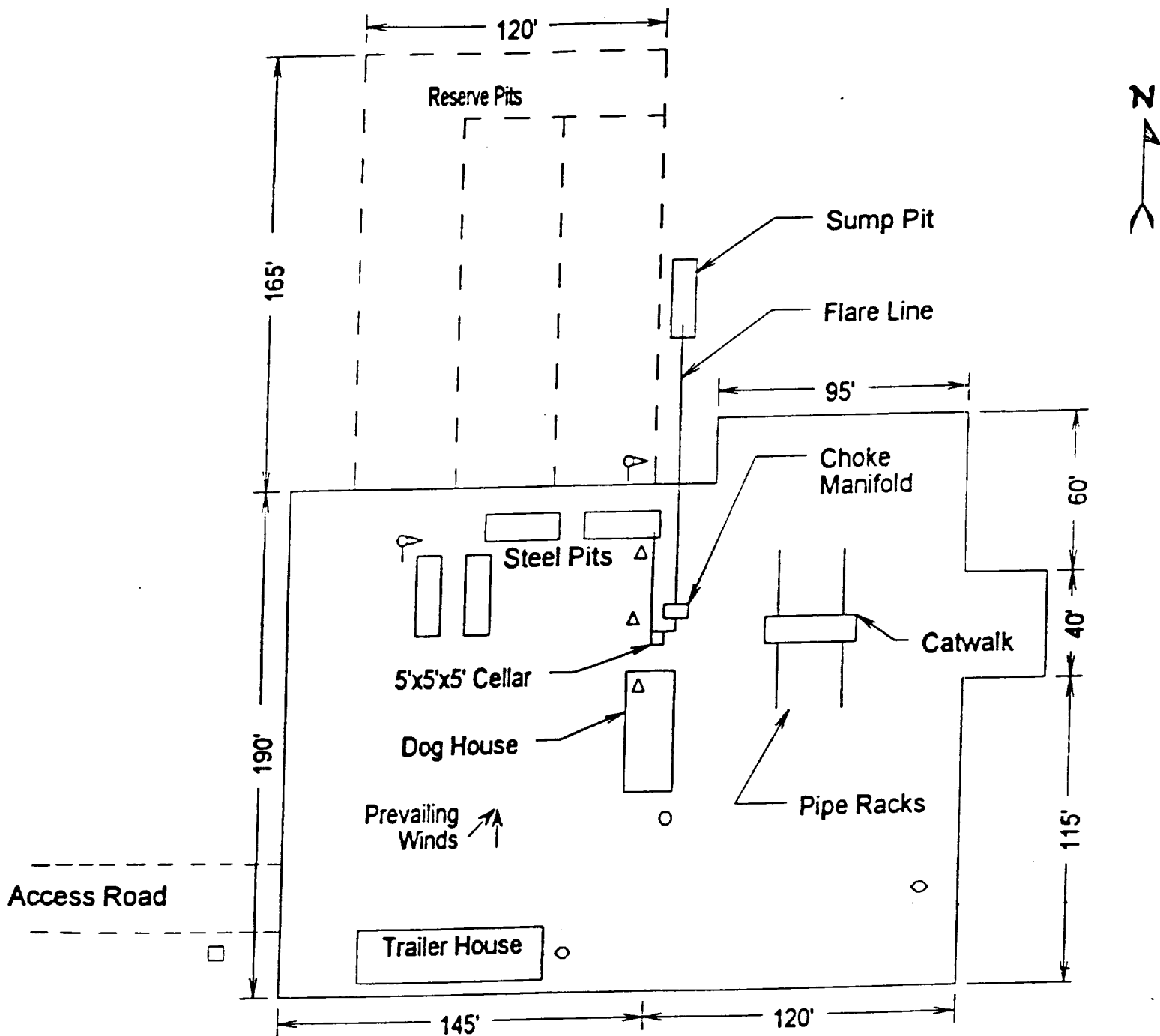
EXHIBIT "1-A"
ONE MILE RADIUS MAP
SOUTHWEST ROYALTIES INC.
WYATT "A" FEDERAL #1
1650' FNL & 990' FWL SEC 3-
T17S-R33E LEA CO N



LEGEND:

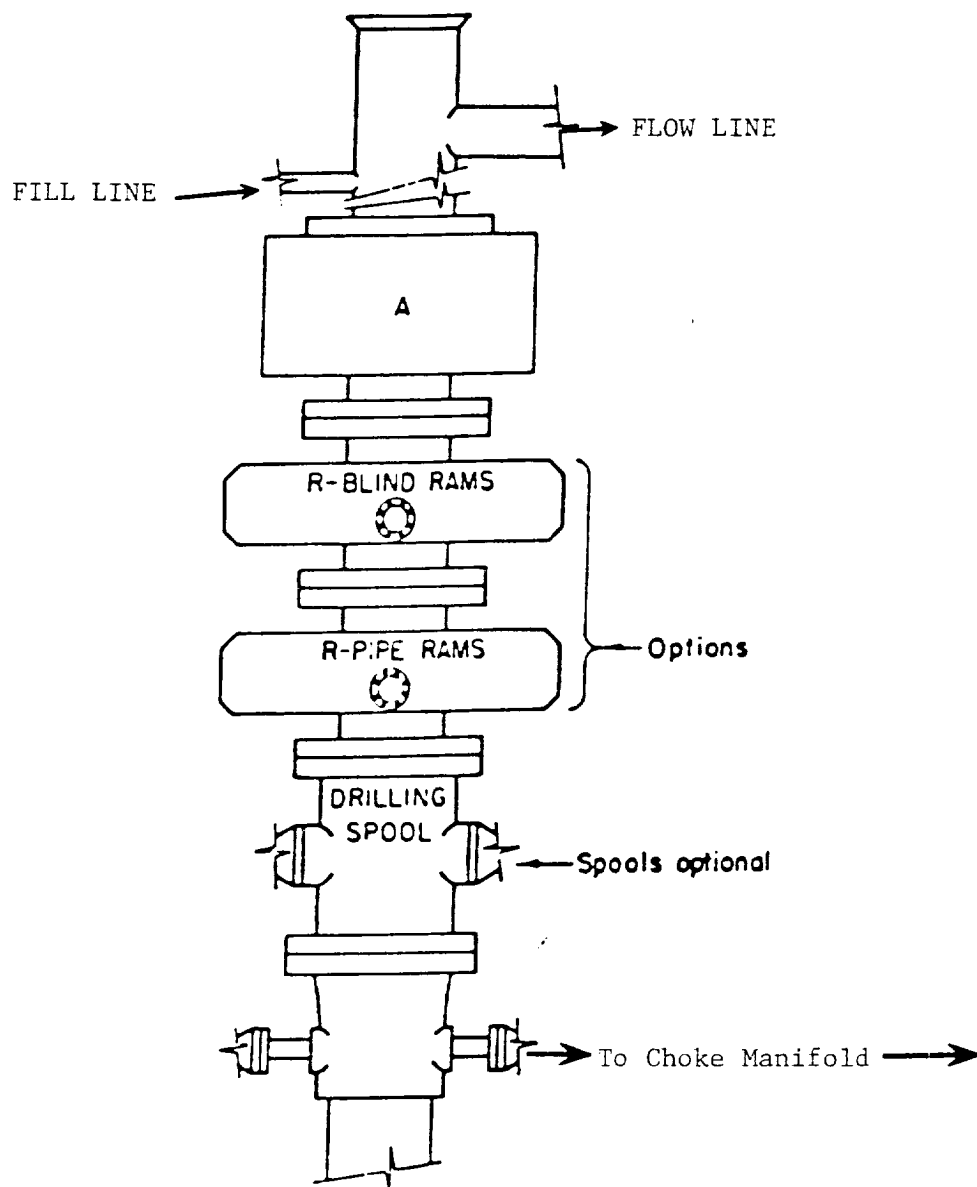
- Existing Roads
- Proposed Roads
- Power Lines
- Proposed Power Lines
- Proposed Flow Lines

EXHIBIT "C"
 TOPOGRAPHIC MAP SHOWING
 ROADS & DIRECTIONS TO
 SOUTHWEST ROYALTIES INC.
 WYATT "A" FEDERAL #1
 1650' FNL & 990' FWL SEC 3
 T17S-R32E



- 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

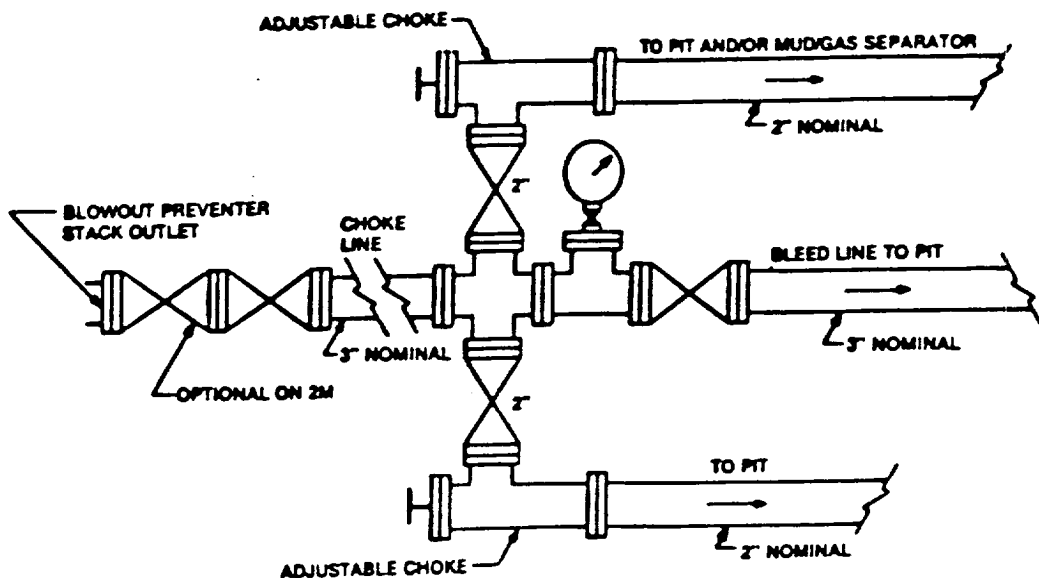
EXHIBIT "D"
RIG LAYOUT PLAT
SOUTHWEST ROYALTIES INC.
WYATT "A" FEDERAL #1
1650' FNL & 990' FWL SEC 3
T17S-R33E LEA CO



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

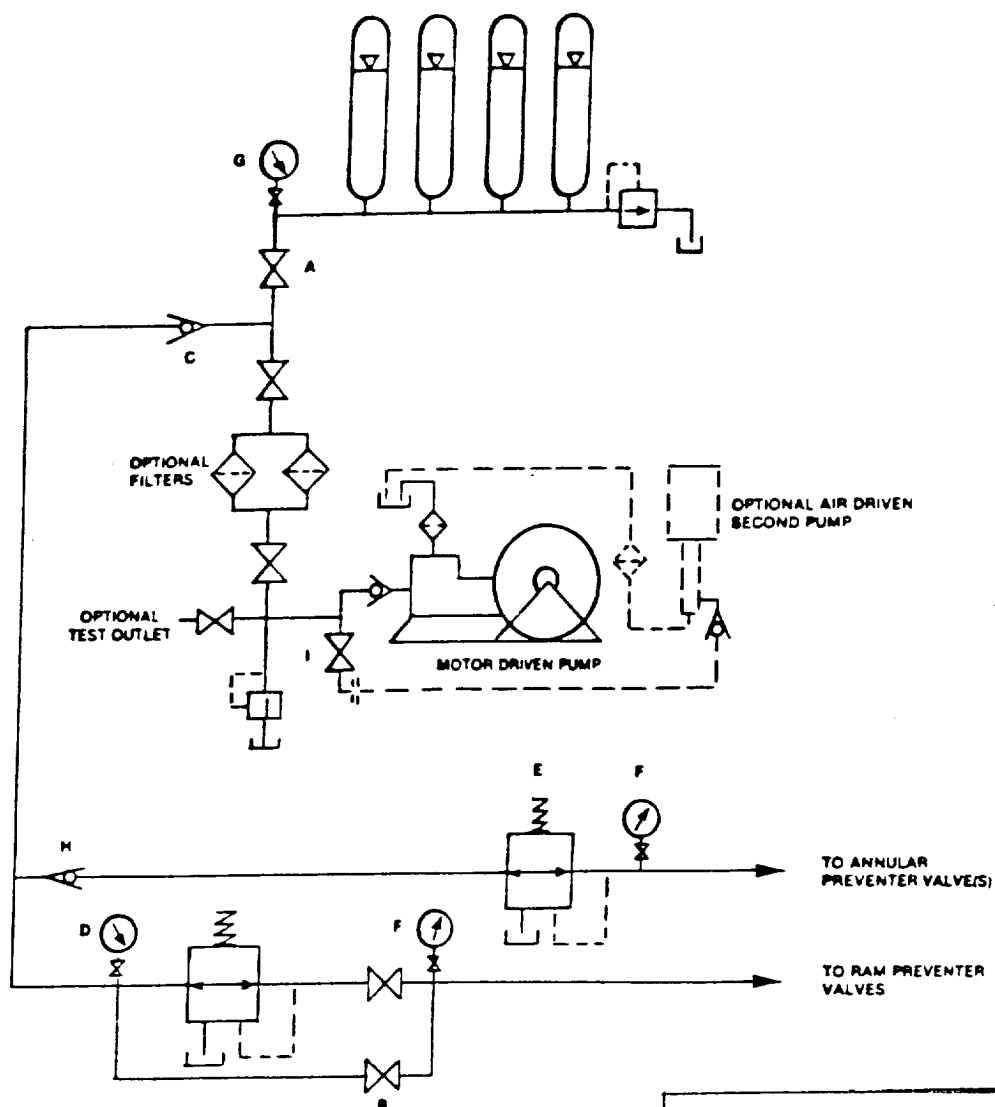


EXHIBIT " 1-E "
CHOKE MANIFOLD & CLOSING UNIT

SOUTHWEST ROYALTIES INC.

WYATT "A" FEDERAL #1

1650' FNL & 990' FWL SEC 3

T17S-R33E

LEA CO

4/24/17

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