SOCORRO PETROLEUM COMPANY

P. O. BOX 2879 VICTORIA, TX 77902-2879 (512) 575-7421 (512) 575-2982 FAX NAGEIVED
P. O. DRAWER 3268
'SMIDTAND TX1797023 58
(915) 687-4338
(915) 685-3362 FAX

P. O BOX 38 LOCO HILLS, NM 88255-0038 (505) 677-2360 (505) 677-2385 FAX

June 1. 1990

Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Gentlemen:

Enclosed please find applications for permit to drill eight locations in Section 29, Township 17 South, Range 31 East, Eddy County, New Mexico. These applications have been filed with the BLM.

These wells are being drilled for the purpose of establishing a five-spot pattern in an existing waterflood area. The injection wells and producing wells are shown on enclosed Plat No. 1.

These eight proposed locations are all in-fill wells with no offset operators other than Socorro Petroleum Company.

Therefore, Socorro respectfully requests that the Oil Conservation Division grant administrative approval for these eight locations.

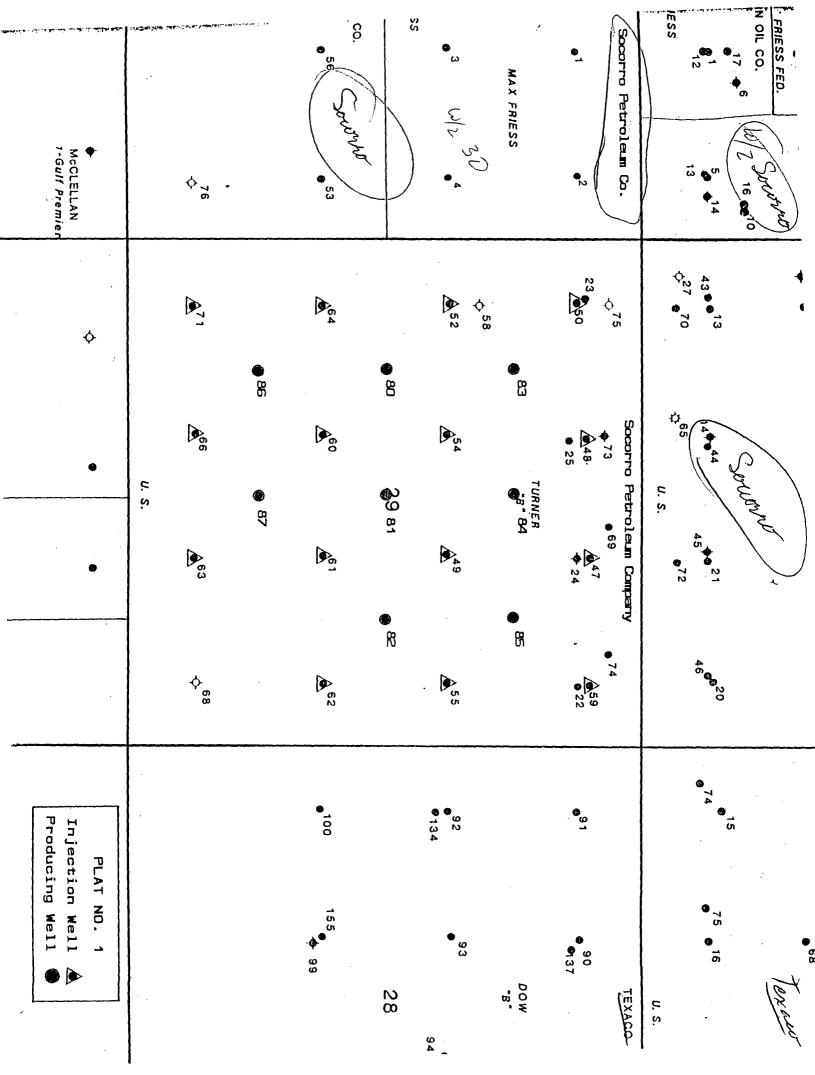
Thank you for your consideration in this matter.

Yours very truly,

John Gould. Jr.

JG/mp

Encl.



Form 3160~3 (July 1989) (formerly 9~331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

OMBOT BELLEVING OFFICE FOR IMPORT OF OURIES REQUIRED (Other instructions on reverse side)

BIJI Ronwell District

Hall(led Form Ho. 111060-3160-2 G. LEARE DESIGNATION AND SERIAL NO.

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AFFLICATION FOR DRILLING

SOCORRO PETRÖLEUM COMPANY
TURNER "B" Well No. 80
2565' FSL & 1305' FWL
Eddy County, New Mexico
Lease No.: LC-019395-B

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Socorro Petroleum Company submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geological markers are as follows:

Rustler Anhydrite	625"	Grayburg	3260"
Top of Salt	795"	Premier Sand	3420*
Base of Salt	1775"	San Andres	3550°
Yates	1925*	Lovington Sand	36651
Seven Rivers	2235"	Lower S.A. "M"	3750°
Queen	2850°	Т. О.	4000°

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: There is no surface water in area. Water flow from injection wells possible at 2800°.

Oil: Grayburg at approximately 3260° or below.

Gas: None anticipated.

- 4. Proposed Casing Program: See Form 3160-3.
- -5. Froposed Control Equipment: See Form 3160-3.
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: None planned.

Logging: LDT/CNL T.D. - 1775'
DLL RXO NGT. T.D. - 1775'
GRN T.D. - Surface

Coring: Mone planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.

APD
Socorro Petroleum Company
Turner "B", Well No. 80
Page -2-

10. Anticipated starting date:
Anticipated completion of drilling operations:

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

SOCORRO PETROLEUM COMPANY TURNER "B", Well No. 80 2565' FSL & 1305' FWL Eddy County, New Mexico Lease No.: LC-029395-B

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, and the operations plan to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Quad map showing the location of the proposed well as staked, in relation to existing roads and U.S. Highway 82. The well is approximately 5.5 miles ESE of Loco Hills, New Mexico, with most of the distance paved.
- B. Directions: From Loco Hills go east on U.S. 82 5.7 miles to SH 222. Turn south on 222 and go 0.6 miles to existing lease road. Go west on lease road 3/4 of a mile, then south 1/4 of a mile to location. (See Exhibit "B".)

2. PLANNED ACCESS ROAD:

- A. Length and Width: A 1320' road 12' wide will be constructed from the existing access road south to the proposed wellsite.
- B. Construction: The new road will be 12° wide with a center crown, with 4 inches compacted caliche. The existing roads will be graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: Mone required.
- E. Cut and Fill: The area has 8 to 15 foot sand dunes and deflation basins to be leveled.
- F. Gates, Cattlequards: Mone required.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two miles radius are shown on Exhibit "C".

SURFACE USE AND OPERATIONS PLAN Socorro Petroleum Company .Turner "B" #80 Page - 2 -

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. There are production facilities on the lease at this time.

 See Exhibit "C".
- B. If the oil well proves to be commercial, the necessary production facilities will be installed on the drilling pad and flow lines will be installed along the proposed and existing access roads to the storage tanks.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6. SOURCES OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing access roads and the wellsite pad will be obtained from a Federal pit in the SE/4 of Section 7-T17S-R31E. The pit has been staked and cleared by the archaeologist. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste papers, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of

SURFACE USE AND OPERATIONS PLAN Socorro Petroleum Company Turner "B" #80 Page - 3 -

dirt. All waste materials will be contained to prevent scattering by the wind.

H. All trash and debris will be buried or removed from the well-site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 140' x 210' plus reserve pits.
- C. Cut & Fill: The area has 5 to 12 foot sand dunes and deflation basins to be leveled.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Fits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

A. Topography: The wellsite and access road are located in the Guerecho Plains, c. a. 2.2 miles ENE of Cedar Lake, c. a. 1.2 miles northwest of Taylor Draw and c. s. 1.0 miles east of Cedar Lake Draw. The area drains to the west towards Cedar Lake Draw. The project area consists of a fairly flat area sloping to an arroyo to the north.

SURFACE USE AND OPERATIONS PLAN Socorro Petroleum Company Turner "B" #80 Page - 4 -

- B. Soil: The topsoil at the wellsite is Kermit-Berino fine sands.
- C. Flora and Fauna: The vegetative cover is one of a grassland environment and a scrub-grass scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the area.
- E. Residences and Other Structures: None in the area.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed wellsite and existing access road are on Federal surface and minerals.
- H. Archaeological survey will be filed with the BLM under separate cover.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

> Ben D. Göuld Socorro Petroleum Company P. O. Box 38 Loco Hills, New Mexico 88255 (505) 677-2360

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Socorro Petroleum Company and its contractors and subcontractors in conformity with this plan and their terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Socorro Petroleum Company

DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

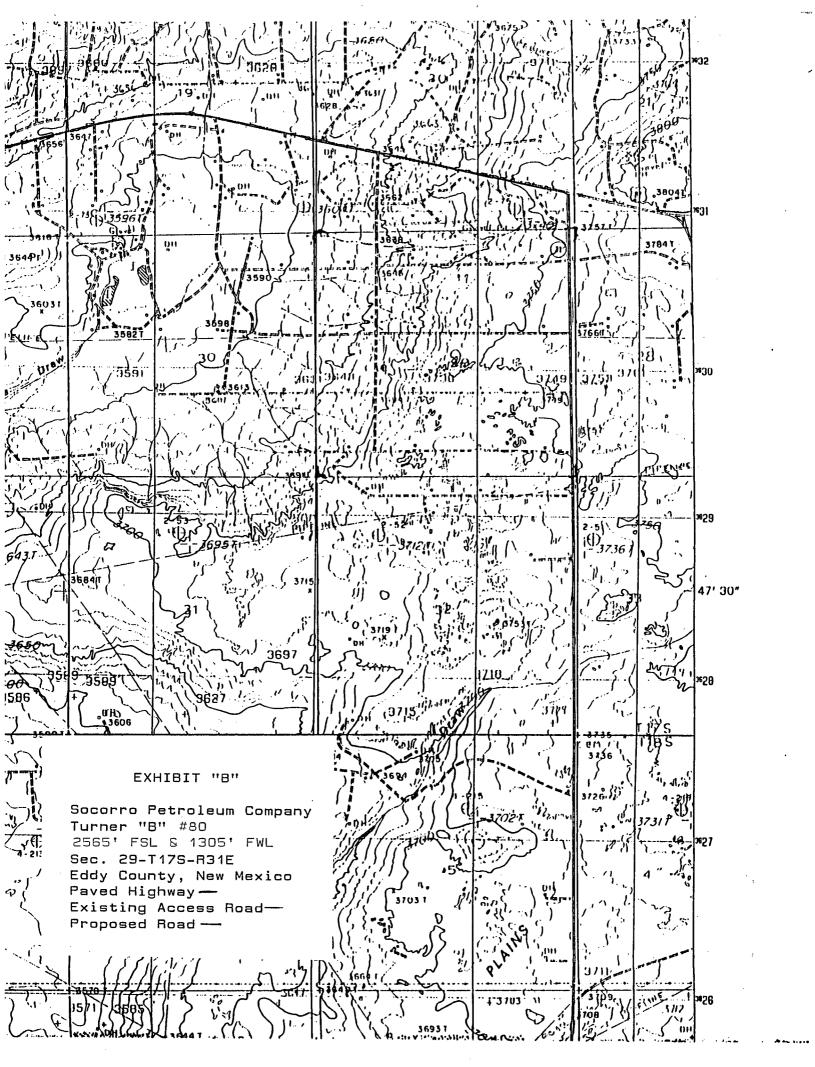
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

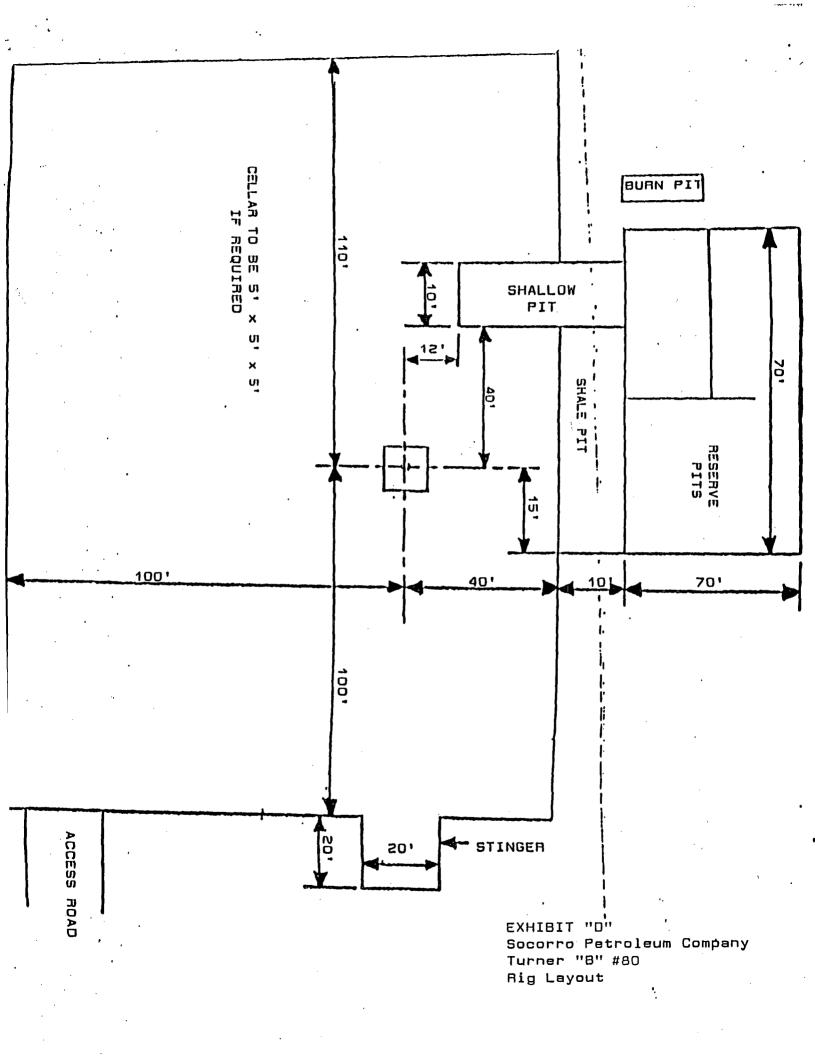
1000 Rio Brazos Rd., Azzec, NM 87410

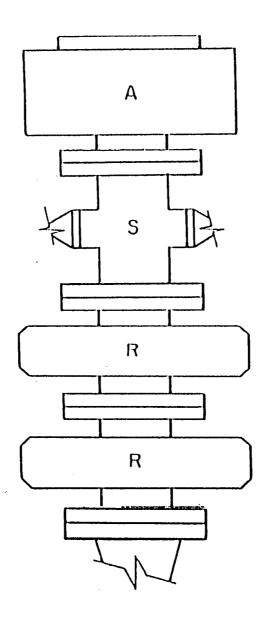
WELL LOCATION AND ACREAGE DEDICATION PLAT
All Distances must be from the outer boundaries of the section

Well No. Turner "B" Federal 80 Socorro Petroleum Company County Eddy Unit Letter Section Township 17 South 29 31 East NMPM Actual Footage Location of Well: 1305 feet from the 2565 South feet from the line and line Ground level Elev. Producing Formation Pool Dedicated Acreage: Grayburg Jackson 3681 Grayburg 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? X No Yes If answer is "yes" type of consolidation If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. **OPERATOR CERTIFICATION** I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Printed Name John Gould **Position** Manager Company Socorro Petroleum Co. Date 5/14/90 3684 SURVEYOR CERTIFICATION 3665 1305 3674 I hereby certify that the well location shown 3695 on this plat was plotted from field notes of octual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed May 9, Signature & Scal Q Professional Survey P.R. Certificate No PROFESSIONAL 8112 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500



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Λ - Stripping Rubber

R - Blind and Pipe Rams

> EXHIBIT "E" Socorro Petroleum Company Turner "B" #80 BOP Diagram

Form 3160-3 (July 1989) (formerly 9-331C)

CARRACT RECEIVING OF CUPIES ROWARD (Other instructions on reverse side)

Bill Romell District

UNITED STATES

Modified Form No. 18060-3160-2

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APPLICATION FOR DRILLING

SOCORRO PETROLEUM COMPANY TURNER "B" Well No. 81 2545' FSL & 2615' FEL Eddy County, New Mexico Lease No.: LC-019395-B

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Socorro Petroleum Company submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geological markers are as follows:

Rustler Anhydrite	6251	Grayburg	32601
Top of Salt	795"	Premier Sand	34201
Base of Salt	1775'	San Andres	3550"
Yates	1925	Lovington Sand	3665
Seven Rivers	22357	Lower S.A. "M"	3750°
Queen	2850°	T. D.	4000*

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: There is no surface water in area. Water flow from injection wells possible at 2800°.

Oil: Grayburg at approximately 3260' or below.

Gas: None anticipated.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3.
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: None planned.

Logging: LDT/CNL T.D. - 1775'
DLL RXO NGT. T.D. - 1775'
GRN T.D. - Surface

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.

APD Socorro Petroleum Company Turner "B", Well No. 81 Page -2-

10. Anticipated starting date:
Anticipated completion of drilling operations:

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

SOCORRO PETROLEUM COMPANY TURNER "B", Well No. 81 2545' ÈSL & 2615' FEL Eddy County, New Mexico Lease No.: LC-029395-B

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, and the operations plan to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Quad map showing the location of the proposed well as staked, in relation to existing roads and U.S. Highway 82. The well is approximately 5.5 miles ESE of Loco Hills, New Mexico, with most of the distance paved.
- B. Directions: From Loco Hills go east on U.S. 82 5.7 miles to SH 222. Turn south on 222 and go 0.6 miles to existing lease road. Go west on lease road 1/2 of a mile, then south 1/4 of a mile to location. (See Exhibit "B".)

2. PLANNED ACCESS ROAD:

- A. Length and Width: A 1320' road 12' wide will be constructed from the existing access road south to the proposed wellsite. An access road will also be constructed south 1200' to an existing lease road.
- B. Construction: The new road will be 12' wide with a center crown, with 4 inches compacted caliche. The existing roads will be graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cut and Fill: The area has 8 to 15 foot sand dunes and deflation basins to be leveled.
- F. Gates, Cattleguards: None required.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two miles radius are shown on Exhibit "C".

SURFACE USE AND OPERA INS PLAN Socorro Petroleum Company Turner "B" #81 Page - 2 -

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. There are production facilities on the lease at this time. See Exhibit "C".
- B. If the oil well proves to be commercial, the necessary production facilities will be installed on the drilling pad and flow lines will be installed along the proposed and existing access roads to the storage tanks.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6. SOURCES OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing access roads and the wellsite pad will be obtained from a Federal pit in the SE/4 of Section 7-T178-R31E. The pit has been staked and cleared by the archaeologist. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste papers, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of

SURFACE USE AND OPERA DNS PLAN Socorro Petroleum Company Turner "B" #81 Page - 3 -

dirt. All waste materials will be contained to prevent scattering by the wind.

H. All trash and debris will be buried or removed from the well-site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 140' x 210' plus reserve pits.
- C. Cut & Fill: The area has 5 to 12 foot sand dunes and deflation basins to be leveled.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Fits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

A. Topography: The wellsite and access road are located in the Querecho Plains, c. a. 2.45 mi. ENE of Cedar Lake, c. a. 1.2 miles northwest of Taylor Draw and c. a. 1.25 miles east of Cedar Lake Draw. The project area consists of billowey aeolian deposits, occuring in the form of dune rises (up to 10 metres in height), separated by swales. Deflation basins are elongate to circular in plan.

SURFACE USE AND OPERAT NS FLAN Socorro Fetroleum Company Turner "B" #81 Page - 4 -

- B. Soil: The topsoil at the wellsite is Kermit-Berino fine sands.
- C. Flora and Fauna: The vegetative cover is one of a grassland environment and a scrub-grass scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the area.
- E. Residences and Other Structures: None in the area.
- F. Land Use: Cattle grazing.
- 5. Surface Ownership: The proposed wellsite and existing access road are on Federal surface and minerals.
- H. Archaeological survey will be filed with the BLM under separate cover.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Ben D. Gould Socorro Petroleum Company P. O. Box 38 Loco Hills, New Mexico 88255 (505) 677-2340

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Socorro Petroleum Company and its contractors and subcontractors in conformity with this plan and their terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Socorro Petroleum Company

ppropriate
sanct Office
State Lease - 4 copies
Fee Lease - 3 copies

Operator

State of New Mexico Energ, linerals and Natural Resources Department

Form C-102 Revised 1-1-89

Well No.

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

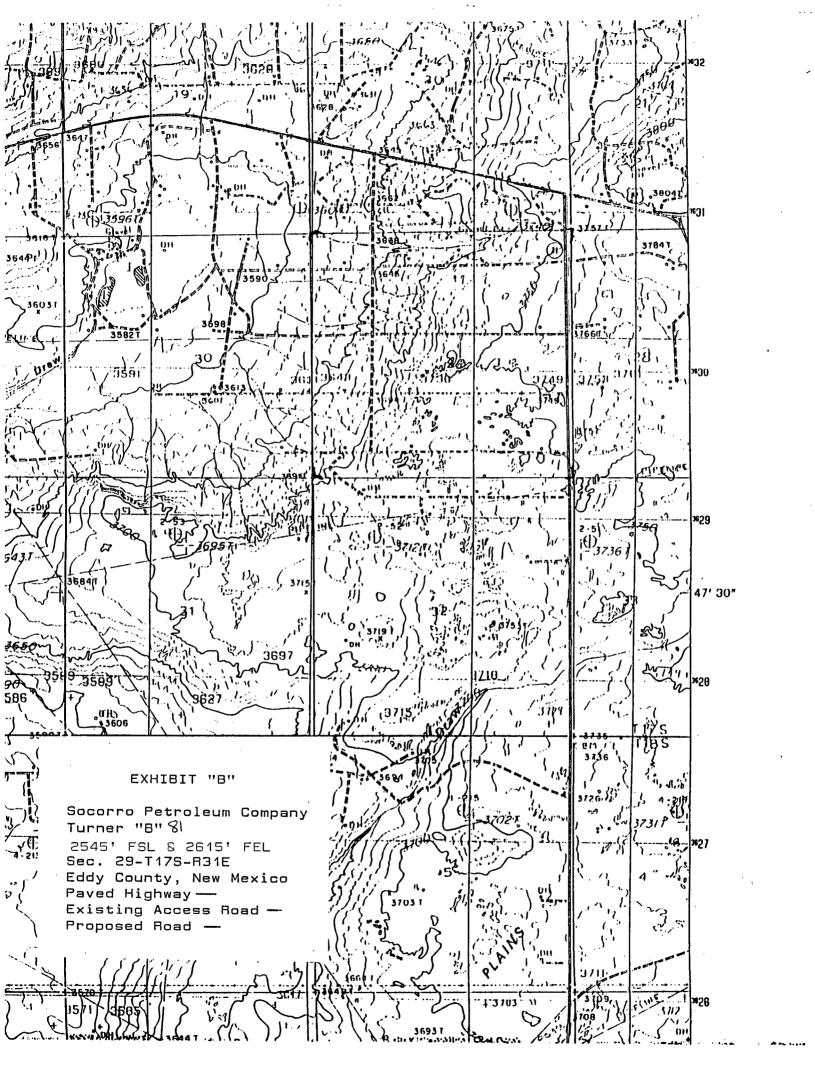
DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

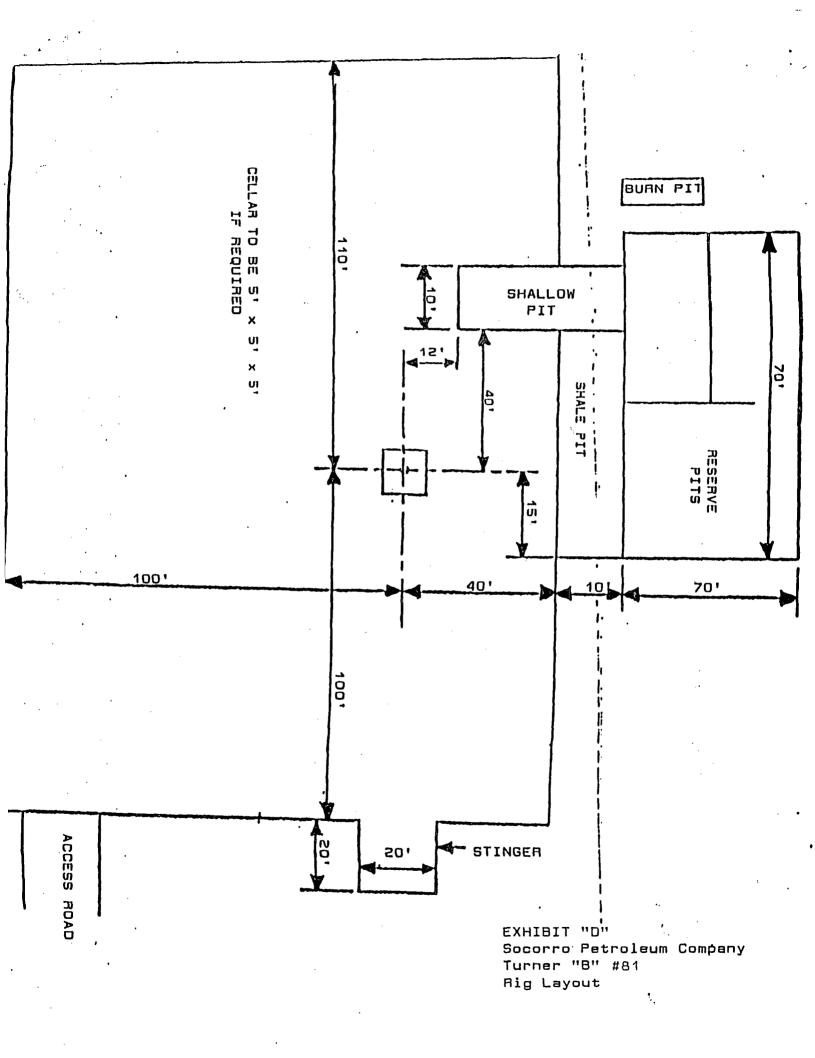
WELL LOCATION AND ACREAGE DEDICATION PLAT

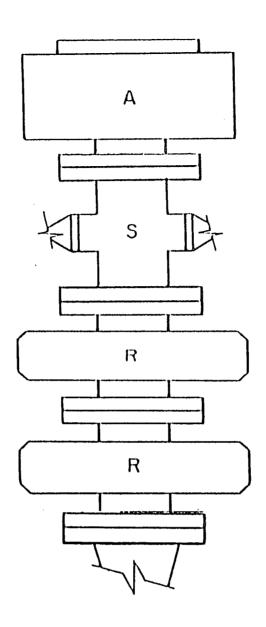
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			OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief.
	<u> </u>		Printed Name John Gould, Jr. Position
			Manager Company Socorro Petroleum Co. Date 5/14/90
	3731 3754		SURVEYOR CERTIFICATION
	3752 3746	2615'	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 knowledge and belief.
			Date Surveyed May 9, 1990 Signature & Seal of Professional Surveyor P.R. Patron
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Λ - Stripping Rubber

R - Blind and Pipe Rams

> EXHIBIT "E" Socorro Petroleum Company Turner "B" #81 BOP Diagram

APPLICATION FOR DRILLING

SOCORRO PETROLEUM COMPANY TURNER "B" Well No. 82 2550' FSL & 1335' FEL Eddy County, New Mexico Lease No.: LC-019395-B

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Socorro Petroleum Company submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geological markers are as follows:

Rustler Anhydrite	625"	Grayburg	3260°
Top of Salt	7951	Premier Sand	3420*
Base of Salt	1775"	San Andres	3550°
Yates	1925"	Lovington Sand	3665°
Seven Rivers	2235°	Lower S.A. "M"	3750"
Gueen	2850*	T. D.	40003

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: There is no surface water in area. Water flow from injection wells possible at 2800°.

Oil: Grayburg at approximately 3260' or below.

Gas: None anticipated.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3.
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: None planned.

Logging: LDT/CNL T.D. - 1775'
DLL RXO NGT. T.D. - 1775'
GRN T.D. - Surface

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.

APD Socorro Petroleum Company Turner "B", Well No. 82 Page -2-

10. Anticipated starting date:
Anticipated completion of drilling operations:

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

SOCORRO PETROLEUM COMPANY
TURNER "B", Well No. 82
2550' FSL & 1335' FEL
Eddy County, New Mexico
Lease No.: LC-029395-B

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, and the operations plan to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Quad map showing the location of the proposed well as staked, in relation to existing roads and U.S. Highway 82. The well is approximately 5.5 miles ESE of Loco Hills, New Mexico, with most of the distance paved.
- B. Directions: From Loco Hills go east on U.S. 82 5.7 miles to SH 222. Turn south on 222 and go 0.6 miles to existing lease road. Go west on lease road 1/4 of a mile, then south 1/4 of a mile to location. (See Exhibit "B".)

2. PLANNED ACCESS ROAD:

- A. Length and Width: A 1320' road 12' wide will be constructed from the existing access road south to the proposed wellsite.
- B. Construction: The new road will be 12' wide with a center crown, with 4 inches compacted caliche. The existing roads will be graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cut and Fill: The area has 8 to 15 foot sand dunes and deflation basins to be leveled.
- F. Bates, Cattleguards: None required.

3. LOCATION OF EXISTING WELLS:

- A. Existing wells within a two miles radius are shown on Exhibit "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. There are production facilities on the lease at this time.

Form 3160-3 (July 1989) (formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

OFFICE OUT IT.

OF OUTES REJURED
(Other Instructions on reverse side)

MII Ronwell District Hodified Form No. NEWO-3160-2

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SURFACE USE AND OPERAT NS PLAN Socorro Petroleum Company Turner: "B" #82 Page -2-

See Exhibit "C".

B. If the oil well proves to be commercial, the necessary production facilities will be installed on the drilling pad and flow lines will be installed along the proposed and existing access roads to the storage tanks.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6. SOURCES OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing access roads and the wellsite pad will be obtained from a Federal pit in the SE/4 of Section 7-T178-R31E. The pit has been staked and cleared by the archaeologist. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste papers, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind.
- H. All trash and debris will be buried or removed from the well-

SURFACE USE AND OPERA DNS PLAN Socorro Petroleum Company Turner "B" #82 Page -3-

site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 140' x 210' plus reserve pits.
- C. Cut & Fill: The area has 5 to 12 foot sand dunes and deflation basins to be leveled.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

- A. Topography: The wellsite and access road are located in the Querecho Plains, c. a. 2.7 miles ENE of Cedar Lake, c. a. 1.1 miles northwest of Taylor Draw and c. a. 1.75 miles east of Cedar Lake Draw. The project area consists of billowy aeolian deposits, occuring in the form of dune rises (up to 5 metres in height), separated by swales. Deflation basins are elongate to circular in plan.
- B. Soil: The topsoil at the wellsite is Kermit-Berino fine

SURFACE USE AND OPERALLONS FLAN Socorro Petroleum Company Turner "B" #82 Page -4-

sands.

- C. Flora and Fauna: The vegetative cover is one of a grassland environment and a scrub-grass scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the area.
- E. Residences and Other Structures: None in the area.
- F. Land Use: Cattle grazing.
- 6. Surface Ownership: The proposed wellsite and existing access road are on Federal surface and minerals.
- H. Archaeological survey will be sent to BLM under separate cover.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Ben D. Gould Socorro Petroleum Company P. O. Box 38 Loco Hills, New Mexico 88255 (505) 677-2360

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Socorro Petroleum Company and its contractors and subcontractors in conformity with this plan and their terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

John Houlf Spectro Petroleum Company

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DISTRICT I

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe. New Mexico 87504-2088

DISTRICT II 2.O. Drawer DD, Artesia, NM 88210

2.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Well No. Operator Turner "B" Federal 82 Socorro Petroleum Company Unit Letter Township County Section Eddy 17 South East NMPM Actual Footage Location of Well: 1335 feet from the East feet from the South line and line Ground level Elev. Producing Formation Pool Dedicated Acreage: 26 3750 Grayburg Grayburg Jackson Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? **₹**7 № Yes If answer is "yes" type of consolidation If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. **OPERATOR CERTIFICATION** I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. John Gould Position Manager Company Socorro Petroleum Co. 5/17/90 SURVEYOR CERTIFICATION 1335' I hereby certify that the well location shown on this plat was plotted from field notes of 3744 3750 actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed May 15, Signature & Scal of Professional Surveyo P.R. Certificate No. Refession & 8-112

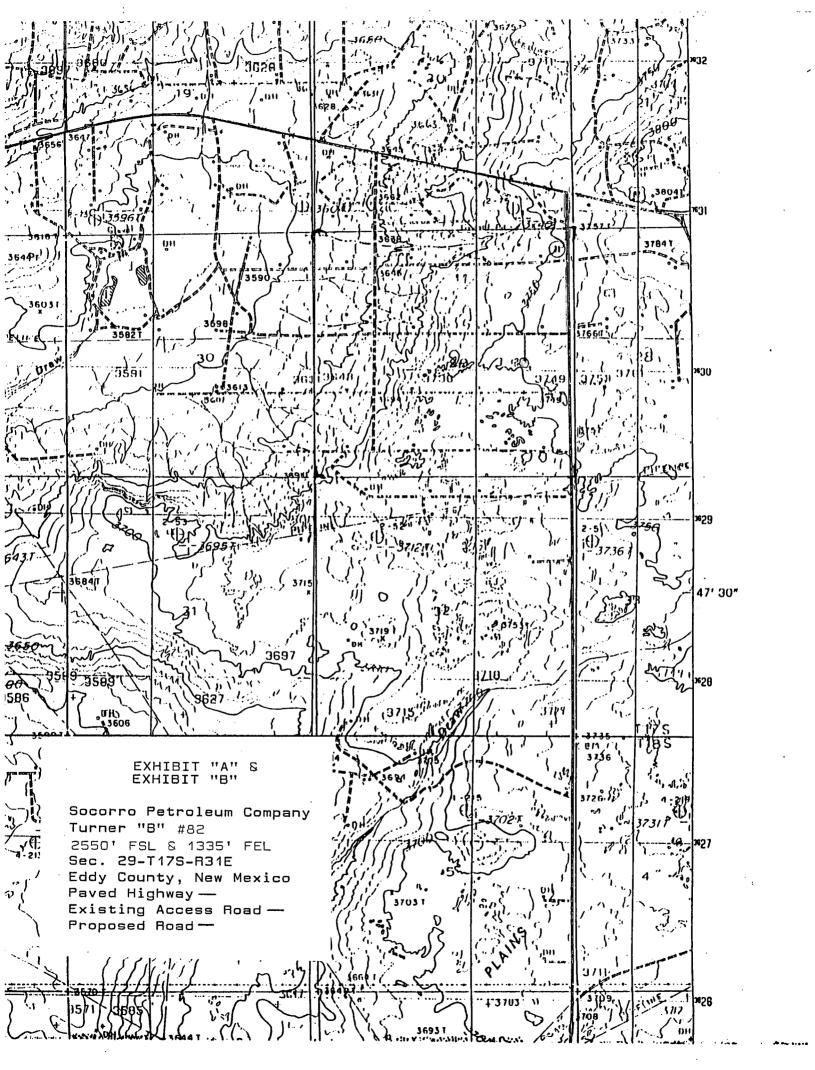
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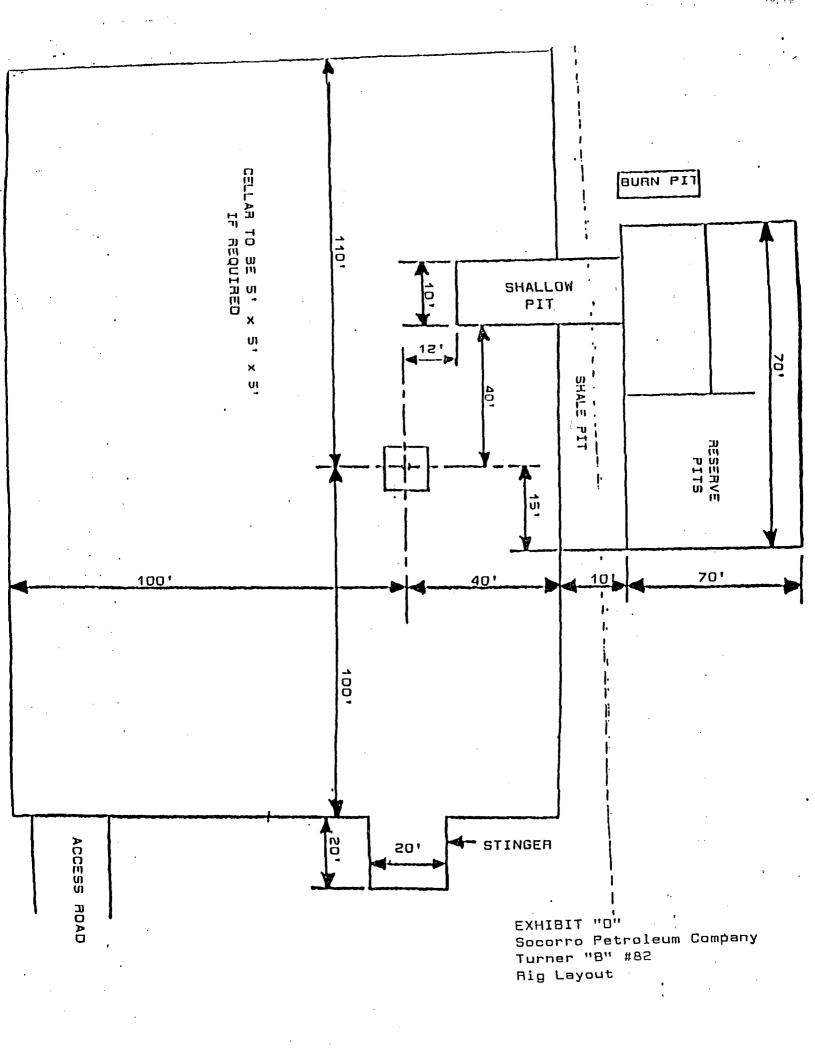
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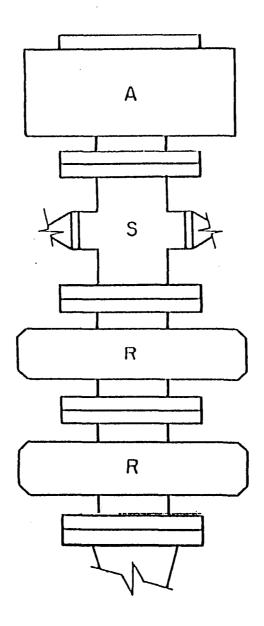
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EXHIBIT "E"
Socorro Petroleum Company
Turner "B" #82
BOP Diagram

" Fårm 3160-3 (July 1989) (formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOF

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(Other Instructions on
reverse side)

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APPLICATION FOR DRILLING

SOCORRO PETROLEUM COMPANY
TURNER "B" Well No. 83
1385' FNL & 1345' FWL
Eddy County, New Mexico
Lease No.: LC-019395-B

In conjunction with Form 3160-3, Application for Permit to Drill subject well. Socorro Petroleum Company submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geological markers are as follows:

Rustler Anhydrite	625"	Grayburg	3260°
Top of Salt	795"	Premier Sand	3420°
Base of Salt	1775	San Andres	3550°
Yates	1925'	Lovington Sand	3665°
Seven Rivers	2235"	Lower S.A. "M"	3750
Queen	2850"	T. D.	4000

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: There is no surface water in area. Water flow from injection wells possible at 2800'.

Oil: Grayburg at approximately 3260° or below.

Gas: None anticipated.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3.
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: None planned.

Logging: LDT/CNL T.D. - 1775'
DLL RXO NGT. T.D. - 1775'
GRN T.D. - Surface

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.

APD Socorro Petroleum Company Turner "B", Well No. 83 Page -2-

10. Anticipated starting date:
Anticipated completion of drilling operations:

SOCORRO PETROLEUM COMPANY TURNER "B", Well No. 83 1385' FNL & 1345' FWL Eddy County, New Mexico Lease No.: LC-029395-B

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, and the operations plan to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Quad map showing the location of the proposed well as staked, in relation to existing roads and U.S. Highway 82. The well is approximately 5.5 miles ESE of Loco Hills, New Mexico, with most of the distance paved.
- B. Directions: From Loco Hills go east on U.S. 82 5.7 miles to SH 222. Turn south on 222 and go 0.6 miles to existing lease road. Go west on lease road 3/4 of a mile, then north 1/4 of a mile to location. (See Exhibit "B".)

2. PLANNED ACCESS ROAD:

- A. Length and Width: A 1320' road 12' wide will be constructed from the existing access road north to the proposed wellsite.
- B. Construction: The new road will be 12' wide with a center crown, with 4 inches compacted caliche. The existing roads will be graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cut and Fill: The area has 8 to 15 foot sand dumes and deflation basins to be leveled.
- F. Gates, Cattlequards: None required.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a two miles radius are shown on Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. There are production facilities on the lease at this time.

SURFACE USE AND OPERAT INS PLAN Socorro Petroleum Company Turner "B" #83 Page - 2 -

See Exhibit "C".

B. If the oil well proves to be commercial, the necessary production facilities will be installed on the drilling pad and flow lines will be installed along the proposed and existing access roads to the storage tanks.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6. SOURCES OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing access roads and the wellsite pad will be obtained from a Federal pit in the SE/4 of Section 7-T17S-R31E. The pit has been staked and cleared by the archaeologist. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste papers, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind.
- H. All trash and debris will be buried or removed from the well-

SURFACE US AND OPERAT! IS PLAN Socorro Petroleum Company Turner "B" #83 Page - 3 -

site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 140' × 210' plus reserve pits.
- C. Cut & Fill: The area has 5 to 12 foot sand dunes and deflation basins to be leveled.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Fits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

- A. Topography: The wellsite and access road are located in the Querecho Plains, c. a. 2.2 miles ENE of Cedar Lake, c. a. 1.4 miles northwest of Taylor Draw and c. a. 1.0 miles east of Cedar Lake Draw. The area drains to the west toward Cedar Lake Draw. The project area consists of a sloping area with immedate drainage into an arroyo to the north.
- B. Soil: The topsoil at the wellsite is Kermit-Berino fine sands.
- C. Flora and Fauna: The vegetative cover is one of a grassland environment and a scrub-grass scrub disclimax community. The

SURFACE USE AND OFERATIONS FLAN Socorro Petroleum Comp y Turner "B" #83 Page - 4 -

wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.

- D. Ponds and Streams: None in the area.
- E. Residences and Other Structures: None in the area.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed wellsite and existing access road are on Federal surface and minerals.
- H. Archaeological survey revealed the occurrence of

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Ben D. Gould Socorro Petroleum Company P. O. Box 38 Loco Hills, New Mexico 88255 (505) 677-2360

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Socorro Petroleum Company and its contractors and subcontractors in conformity with this plan and their terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Socorro Petroleum Company

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

Well No.

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fc, New Mexico 87504-2088

Operator

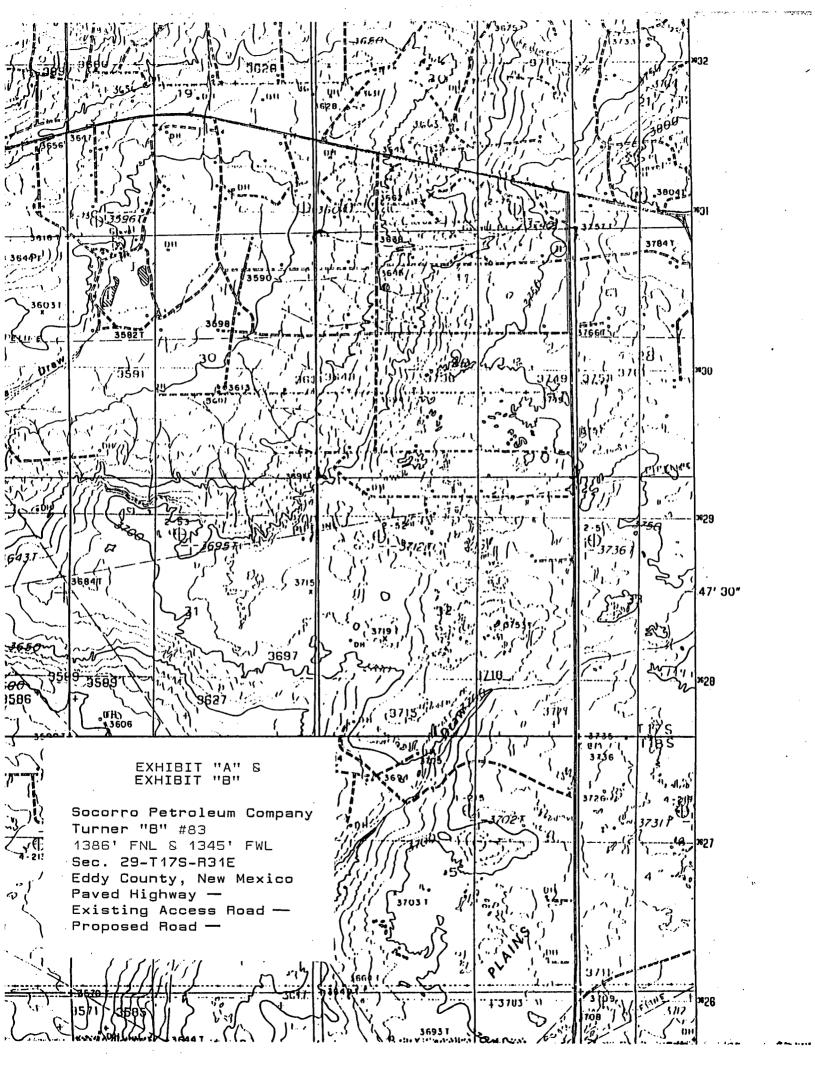
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

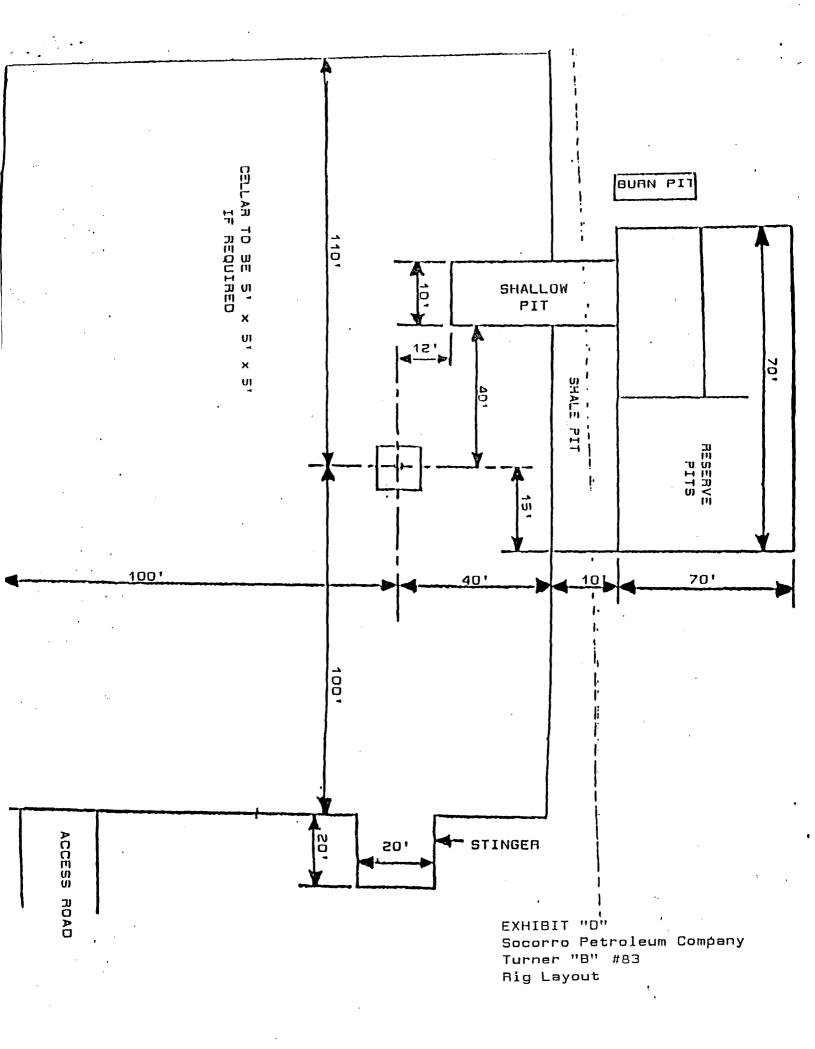
All Distances must be from the outer boundaries of the section

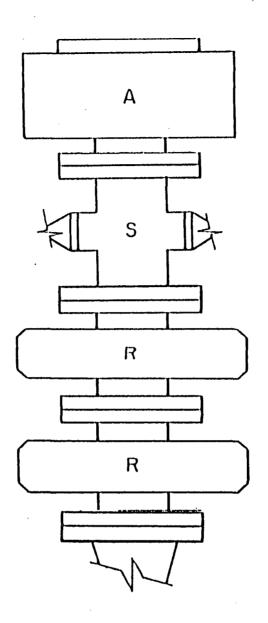
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EXHIBIT "E"
Socorro Petroleum Company
Turner "B" #83
BOP Diagram

Form 3160-3 (July 1989) (formerly 9-331C)

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES DEPARTMENT OF THE INTERIOR

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(Other Instructions on
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Bill Rommell District Hodffled Form No. H1060-3160-2

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APPLICATION FOR DRILLING

SOCORRO PETROLEUM COMPANY TURNER "B" Well No. 84 1305' FNL & 2525' FEL Eddy County, New Mexico Lease No.: LC-019395-8

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Socorro Petroleum Company submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geological markers are as follows:

Rustler Anhydrite	625"	Grayburg	3260*
Top of Salt	7951	Premier Sand	34201
Base of Salt	1775"	San Andres	3550"
Yates	1925	Lovington Sand	3665"
Seven Rivers	22351	Lower S.A. "M"	3750"
Queen	28501	т. в.	4000

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: There is no surface water in area. Water flow from injection wells possible at 2800°.

Oil: Grayburg at approximately 3260' or below.

Gas: None anticipated.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3.
- 6. Mud Program: See Form 3160-3.
- Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: None planned.

Logging: LDT/CNL T.D. - 1775'
DLL RXO NGT. T.D. - 1775'
GRN T.D. - Surface

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.

APD` 'Socorro Petroleum Company Turner "B", Well No. 84 Fage -2-

10. Anticipated starting date:
Anticipated completion of drilling operations:

SOCORRO PETROLEUM COMPANY TURNER "B", Well No. 84 1305' FNL & 2525' FEL Eddy County, New Mexico Lease No.: LC-029395-B

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, and the operations plan to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Quad map showing the location of the proposed well as staked, in relation to existing roads and U.S. Highway 82. The well is approximately 5.5 miles ESE of Loco Hills, New Mexico, with most of the distance paved.
- B. Directions: From Loco Hills go east on U.S. 82 5.7 miles to SH 222. Turn south on 222 and go 0.6 miles to existing lease road. Go west on lease road 1/2 of a mile, then north 1/4 of a mile to location. (See Exhibit "B".)

2. PLANNED ACCESS ROAD:

- A. Length and Width: A 1320' road 12' wide will be constructed from the existing access road north to the proposed wellsite.
- B. Construction: The new road will be 12' wide with a center crown, with 4 inches compacted caliche. The existing roads will be graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cut and Fill: The area has 8 to 15 foot sand dunes and deflation basins to be leveled.
- F. Gates, Cattleguards: None required.

3. LOCATION OF EXISTING WELLS:

- A. Existing wells within a two miles radius are shown on Exhibit "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

SURFACE USE AND OPERATIONS PLAN Socorro Petroleum Complay Turner "B" #84 Page - 2 -

- A. There are production facilities on the lease at this time. See Exhibit "C".
- B. If the oil well proves to be commercial, the necessary production facilities will be installed on the drilling pad and flow lines will be installed along the proposed and existing access roads to the storage tanks.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6. SOURCES OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing access roads and the wellsite pad will be obtained from a Federal pit in the SE/4 of Section 7-T178-R31E. The pit has been staked and cleared by the archaeologist. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste papers, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind.

SURFACE USE AND OPERA' ONS PLAN Socorro Petroleum Company Turner "B" #84 Page - 3 -

> H. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 140' x 210' plus reserve pits.
- C. Cut & Fill: The area has 5 to 12 foot sand dunes and deflation basins to be leveled.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

- A. Topography: The wellsite and access road are located in the Querecho Plains, c. a. 2.45 miles ENE of Cedar Lake, c. a. 1.4 miles northwest of Taylor Draw and c. a. 1.25 miles east of Cedar Lake Draw. The project area consists of billowy aeolian deposits, occuring in the form of dune rises (up to 10 metres in height), separated by swales. Deflation basins are elongate to circular in plan.
- B. Soil: The topsoil at the wellsite is Kermit-Berino fine

SURFACE USE AND OPERAT ONS FLAN Socorro Petroleum Compuny Turner "B" #84 Page - 4 -

sands.

- C. Flora and Fauna: The vegetative cover is one of a grassland environment and a scrub-grass scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the area.
- E. Residences and Other Structures: None in the area.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed wellsite and existing access road are on Federal surface and minerals.
- H. Archaeological survey will be sent to BLM under separate cover.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Ben D. Gould Socorro Petroleum Company P. O. Box 38 Loco Hills, New Mexico 88255 (505) 677-2360

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Socorro Petroleum Company and its contractors and subcontractors in conformity with this plan and their terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Socorro Petroleum Company

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

P.O. Box 1980, Hobbs, NM 88240

P.O. Drawer DD, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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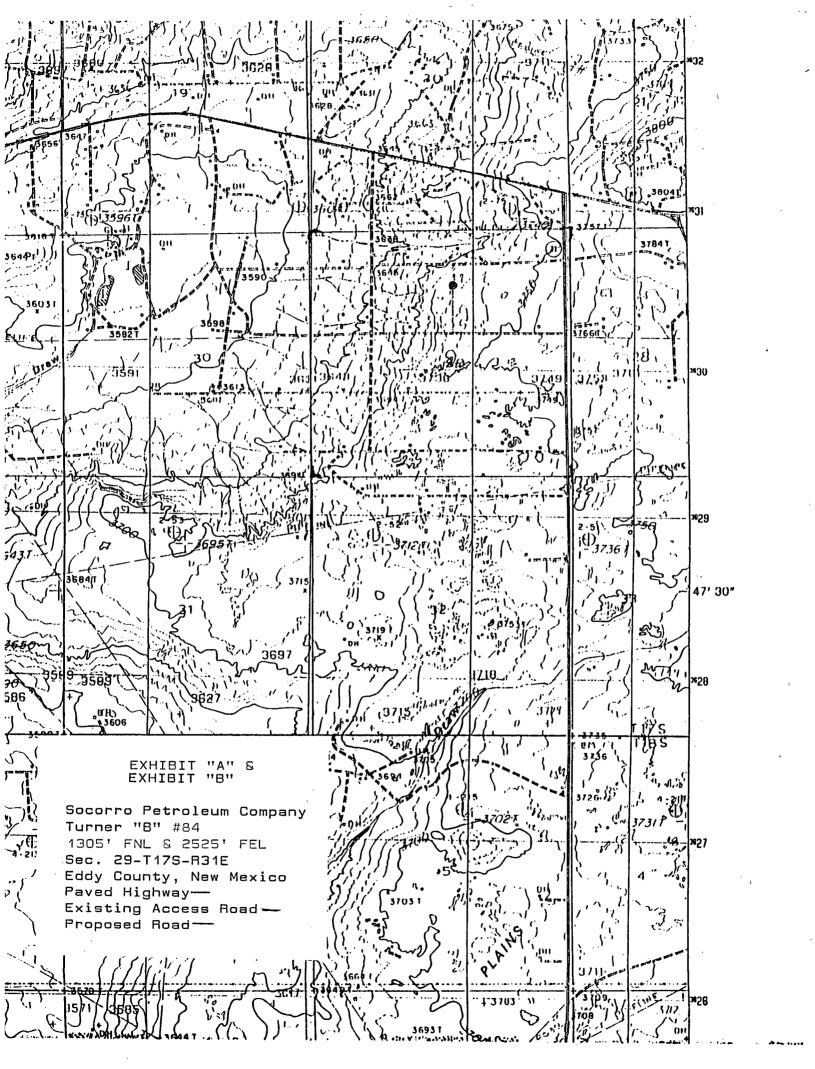
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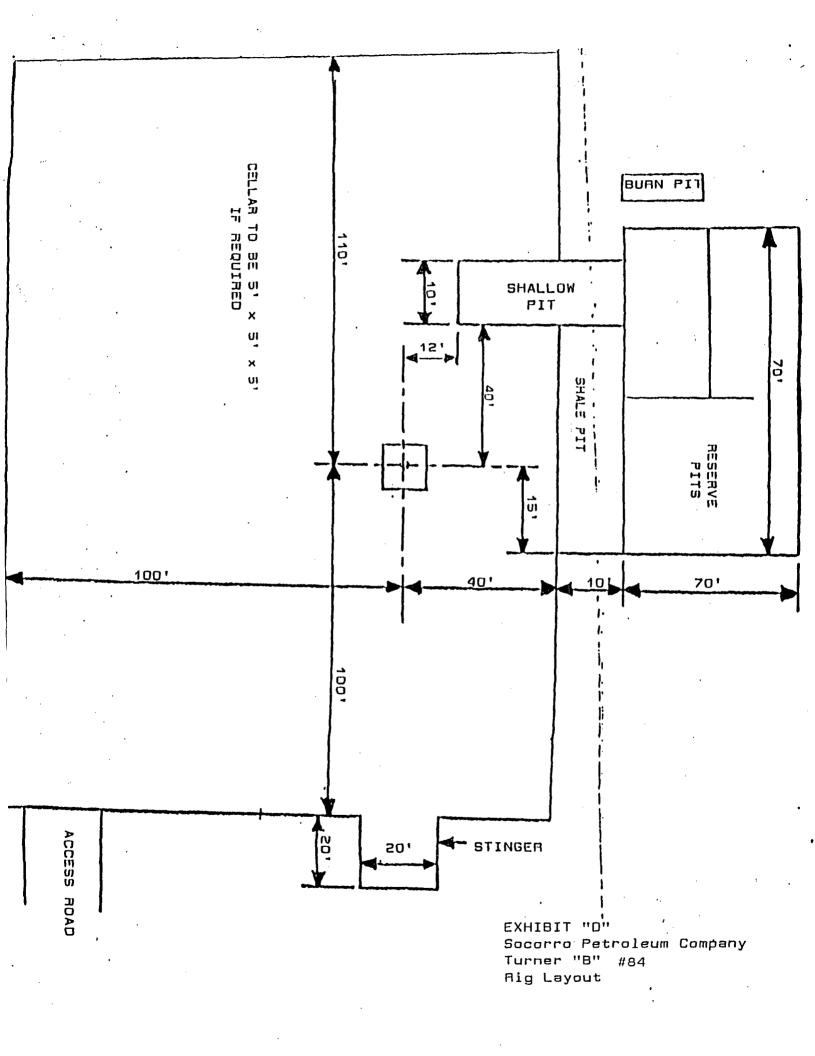
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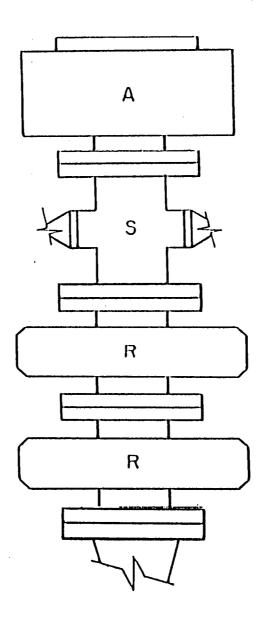
WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 All Distances must be from the outer boundaries of the section Operator Well No. 84 Turner "B" Federal Socorro Petroleum Company County Eddy Unit Letter Township Section Range 31 East 17 South NMPM Actual Footage Location of Well: feet from the 2525 1305 feet from the North line line and Ground level Elev. Producing Formation Dedicated Acreage: Pool 3726 Grayburg Jackson Acres Grayburg 1. Outline the acreage dedicated to the subject well by colored pencil or hadring milks on the glat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? Yes No KX If answer is "yes" type of consolidation If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. **OPERATOR CERTIFICATION** I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Signature 3720 3727 Printed Name 2525 John Gould, **Position** 3722 3735 Manager Company Socorro Petroleum Co. Date 5/14/90 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was platted 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 knowledge and belief. Date Surveyed May Signature & Staled Professional Syd Hillian No.



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A - Stripping Rubber

R - Blind and Pipe Rams

EXHIBIT "E"
Socorro Petroleum Company
Turner "B" # 84
BOP Diagram

Form 3160-3 (July 1989) (formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

CAMINGE RECEIVING
OFFICE PART R
OF OUPIES RD (AARD)
(Other Instructions on
reverse side)

MM Ronwell District Modified Form No. NAUGO-3160-2

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APPLICATION FOR DRILLING

SOCORRO PETRÖLEUM COMPANY
TURNER "B" Well No. 85
1305' FNL & 1335' FEL
Eddy County, New Mexico
Lease No.: LC-019395-B

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Socorro Petroleum Company submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geological markers are as follows:

Rustler Anhydrite	625°	Grayburg	3260
Top of Salt	795°	Premier Sand	3420"
Base of Salt	1775"	San Andres	3550
Yates	1925"	Lovington Sand	3665°
Seven Rivers	2235°	Lower S.A. "M"	3750'
Queen	2850°	T. D.	4000

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: There is no surface water in area. Water flow from

injection possible at 2800%.

Oil: Grayburg at approximately 3260' or below.

Gas: None anticipated.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3.
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: None planned.

Logging: LDT/CNL T.D. - 1775'
DLL RXO NGT. T.D. - 1775'
GRN T.D. - Surface

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.

APD Socorro Petroleum Company Turner "B", Well No. 85 Page -2-

Anticipated starting date:
Anticipated completion of drilling operations:

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

SOCORRO PETROLEUM COMPANY TURNER "B", Well No. 85 1305' FNL & 1335' FEL Eddy County, New Mexico Lease No.: LC-029395-B

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, and the operations plan to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Quad map showing the location of the proposed well as staked, in relation to existing roads and U.S. Highway 82. The well is approximately 5.5 miles ESE of Loco Hills, New Mexico, with most of the distance paved.
- B. Directions: From Loco Hills go east on U.S. 82 5.7 miles to SH 222. Turn south on 222 and go 0.6 miles to existing lease road. Go west on lease road 1/4 of a mile, then north 1/4 of a mile to location. (See Exhibit "B".)

12. PLANNED ACCESS ROAD:

- A. Length and Width: A 1320' road 12' wide will be constructed from the existing access road north to the proposed wellsite.
- B. Construction: The new road will be 12° wide with a center crown, with 4 inches compacted caliche. The existing roads will be graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cut and Fill: The area has 8 to 15 foot sand dunes and deflation basins to be leveled.
- F. Gates, Cattleguards: None required.

3. LOCATION OF EXISTING WELLS:

- A. Existing wells within a two miles radius are shown on Exhibit "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. There are production facilities on the lease at this time.

SURFACE USE AND OPERA JNS FLAN Socorro Petroleum Company Turner "B" #85 Page - 2 -

See Exhibit "C".

B. If the oil well proves to be commercial, the necessary production facilities will be installed on the drilling pad and flow lines will be installed along the proposed and existing access roads to the storage tanks.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6. SOURCES OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing access roads and the wellsite pad will be obtained from a Federal pit in the SE/4 of Section 7-T178-R31E. The pit has been staked and cleared by the archaeologist. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste papers, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind.

SURFACE USE AND OPERA DNS PLAN Socorro Petroleum Company Turner "B" #85 Page - 3 -

> H. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 140° x 210° plus reserve pits.
- C. Cut & Fill: The area has 5 to 12 foot sand dunes and deflation basins to be leveled.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

- A. Topography: The wellsite and access road are located in the Querecho Plains, c. a. 2.9 miles ENE of Cedar Lake, c. a. 1.4 miles northwest of Taylor Draw and c. a. 1.75 miles east of Cedar Lake Draw. The project area consists of billowy aeolian deposits, occuring in the form of dune rises (up to 2 metres in height, separated by swales. Deflation basins are elongate to circular in plan.
- B. Soil: The topsoil at the wellsite is Kermit-Berino fine sands.

SURFACE USE AND OPER: JONS PLAN Socorro Petroleum Company Turner "B" #85 Page - 4 -

- C. Flora and Fauna: The vegetative cover is one of a grassland environment and a scrub-grass scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the area.
- E. Residences and Other Structures: None in the area.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed wellsite and existing access road are on Federal surface and minerals.
- H. Archaeological survey will be sent to the BLM under separate cover.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Ben D.Gould Socorro Petroleum Company P. O. Box 38 Loco Hills, New Mexico 88255 (505) 677-2360

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the 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 Socorro Petroleum Company and its contractors and subcontractors in conformity with this plan and their terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Socorro Petroleum Company

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

330

660

940

1,320

1650

1980 2310

2640

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Arlesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

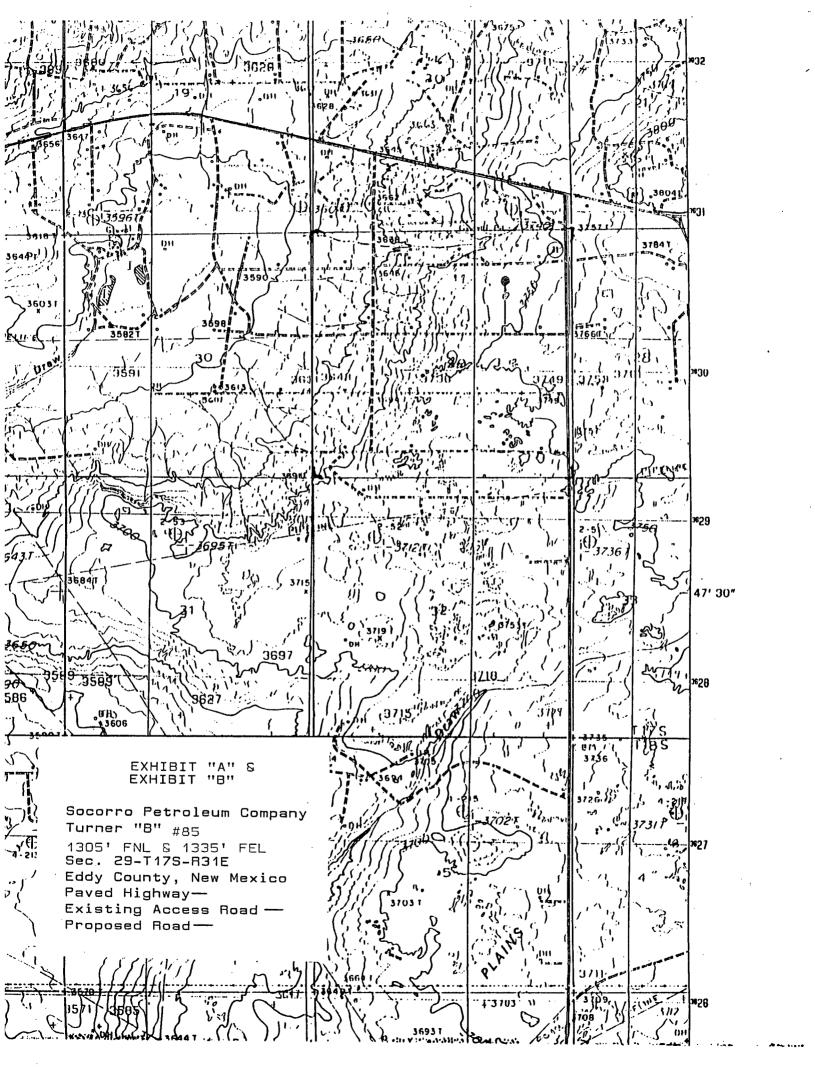
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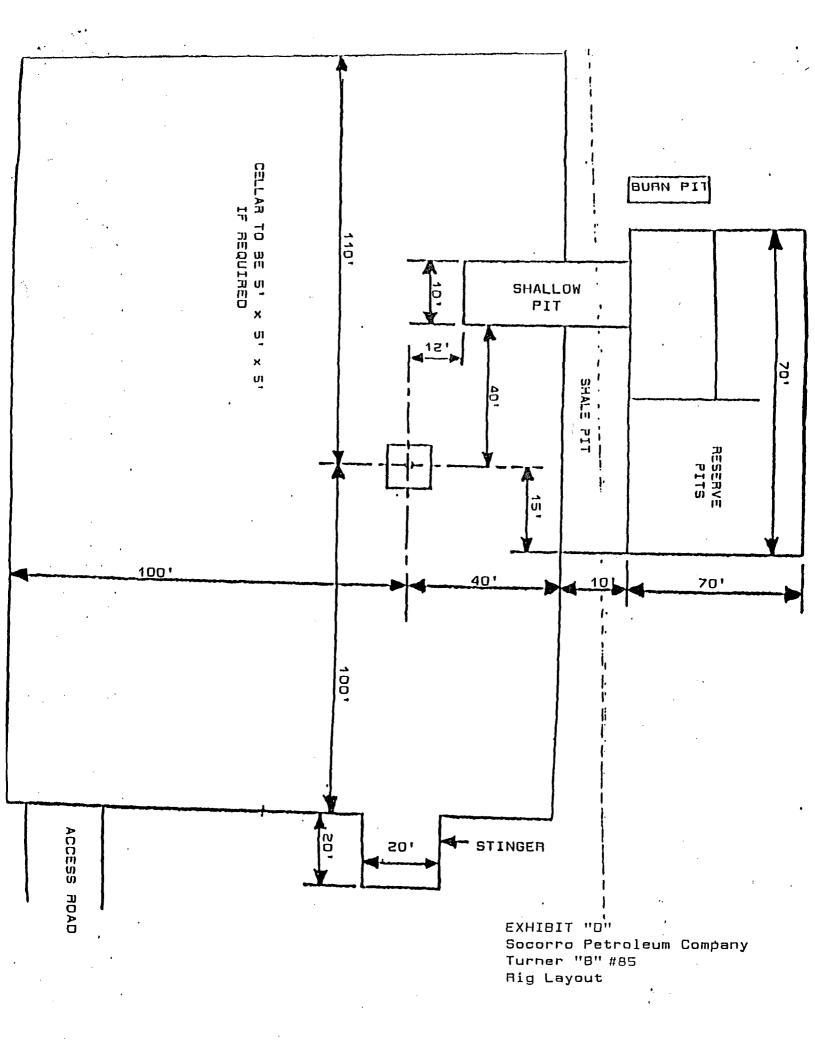
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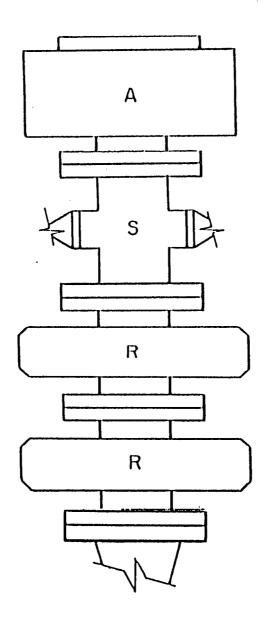
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Λ - Stripping Rubber

R - Blind and Pipe Rams

EXHIBIT "E"
Socorro Petroleum Company
Turner "B" #85
BOP Diagram

Form 3160-3 (July 1989) (formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

CORRACT RECOVERS OFFICE IVALIABILITY OF OUPLES REQUIRED (Other Instructions on reverse side)

NIN Roavell District

itadicied Form No.	
111060-3160-2	
G. LEARE DESIGNATION AND B	ERIAL NO.

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator			· · · · · · · · · · · · · · · · · · ·	Leive	·			Well No.	
Socorro Pe	troleum	Company		Turner	"B" Fed	leral		86	• 1
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APPLICATION FOR DRILLING

SOCORRO PETROLEUM COMPANY TURNER "B" Well No. 86 1335' FSL & 1305' FWL Eddy County, New Mexico Lease No.: LC-019395-B

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Socorro Petroleum Company submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2. The estimated tops of geological markers are as follows:

Rústler Anhydrite	625"	Grayburg	3260°
Top of Salt	795"	Premier Sand	34201
Base of Salt	1775"	San Andres	3550°
Yates	1925"	Lovington Sand	3665°
Seven Rivers	2235°	Lower S.A. "M"	3750
Gueen	2850"	т. D.	4000°

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: There is no surface water in area. Water flow from injection wells possible at 2800°.

Oil: Grayburg at approximately 3260' or below.

Gas: None anticipated.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3.
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: None planned.

Logging: LDT/CNL T.D. - 1775°

DLL RXO NGT. T.D. - 1775°

GRN T.D. - Surface

Coring: None planned.

9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, the proposed mud program will be modified to increase the mud weight.

APD Socorro Petroleum Company Turner "B", Well No. 86 Page -2-

10. Anticipated starting date:
Anticipated completion of drilling operations:

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

SOCORRO PETROLEUM COMPANY TURNER "B", Well No. 86 1335" FSL & 1305" FWL Eddy County, New Mexico Lease No.: LC-029395-B

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, and the operations plan to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Quad map showing the location of the proposed well as staked, in relation to existing roads and U.S. Highway 82. The well is approximately 5.5 miles ESE of Loco Hills, New Mexico, with most of the distance paved.
- B. Directions: From Loco Hills go east on U.S. 82 5.7 miles to SH 222. Turn south on 222 and go 0.85 miles to existing lease road. Go west on lease road 3/4 of a mile, then south 1/4 of a mile to location. (See Exhibit "B".)

2. PLANNED ACCESS ROAD:

- A. Length and Width: A 1320' road 12' wide will be constructed from the existing access road south to the proposed wellsite.
- B. Construction: The new road will be 12' wide with a center crown, with 4 inches compacted caliche. The existing roads will be graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cut and Fill: The area has 8 to 15 foot sand dunes and deflation basins to be leveled.
- F. Gates, Cattlequards: None required.

3. LOCATION OF EXISTING WELLS:

- A. Existing wells within a two miles radius are shown on Exhibit "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
 - A. There are production facilities on the lease at this time.

SURFACE USE AND OPERATIONS PLAN Socorro Petroleum Company Turner "B" #86 Page - 2 -

See Exhibit "C".

B. If the oil well proves to be commercial, the necessary production facilities will be installed on the drilling padand flow lines will be installed along the proposed and existing access roads to the storage tanks.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6. SOURCES OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing access roads and the wellsite pad will be obtained from a Federal pit in the SE/4 of Section 7-T17S-R31E. The pit has been staked and cleared by the archaeologist. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste papers, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind.

SURFACE USE AND OPERATIONS PLAN Socorro Petroleum Company Turner "B" #86 Page - 3 -

> H. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 140° x 210° plus reserve pits.
- C. Cut & Fill: The area has 5 to 12 foot sand dunes and deflation basins to be leveled.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. FLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Fits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

- A. Topography: The wellsite and access road are located in the Querecho Plains, c. a. 2.2 miles east of Cedar Lake, c. a. 1.2 miles northwest of Taylor Draw and c. a. 1.0 miles east of Cedar Lake Draw. The project area drains to the west towards Cedar Lake Draw. The area consists of a sloping area with immediate drainage into an arroyo to the north.
- B. Soil: The topsoil at the wellsite is Kermit-Berino fine

SURFACE USE AND OPERATIONS PLAN Socorro Petroleum Company Turner "B" #86 Fage - 4 -

sands.

- C. Flora and Fauna: The vegetative cover is one of a grassland environment and a scrub-grass scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the area.
- E. Residences and Other Structures: None in the area.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed wellsite and existing access road are on Federal surface and minerals.
- H. Archaeological survey will be sent be BLM under separate cover.

12. OPERATOR'S REPRESENTATIVE:

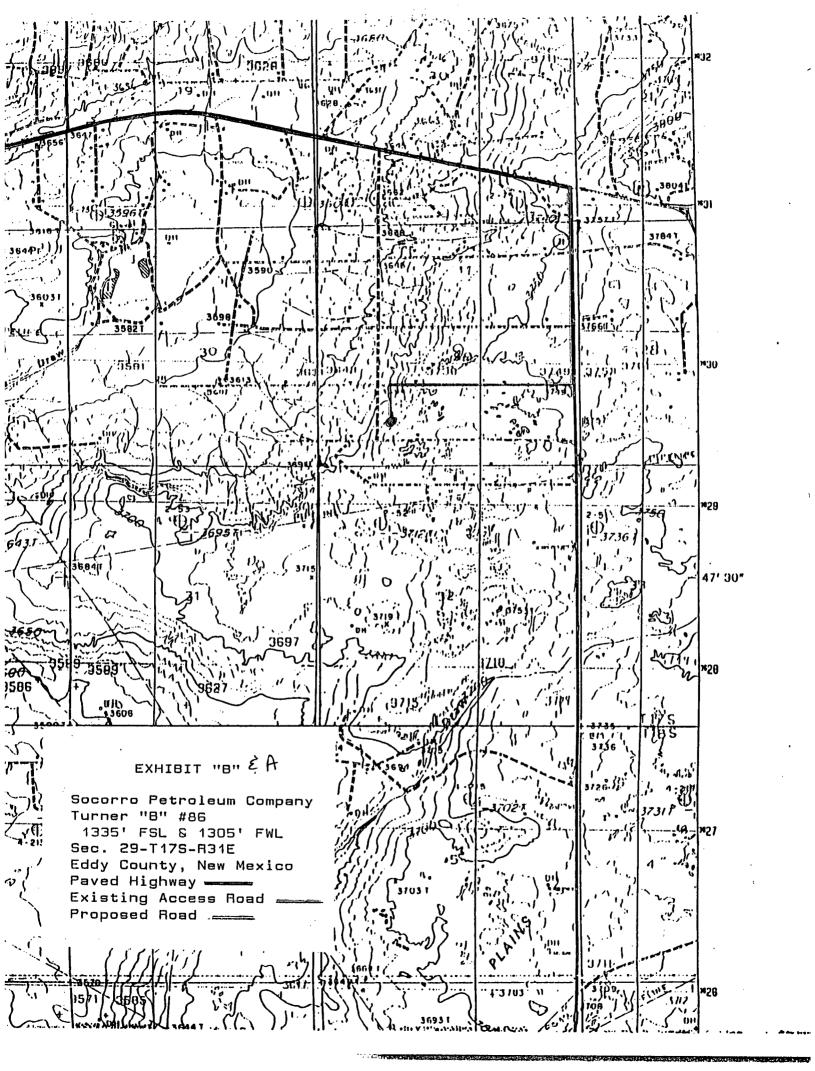
A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Ben D. Gould Socorro Petroleum Company P. O. Box 38 Loco Hills, New Mexico 88255 (505) 677-2360

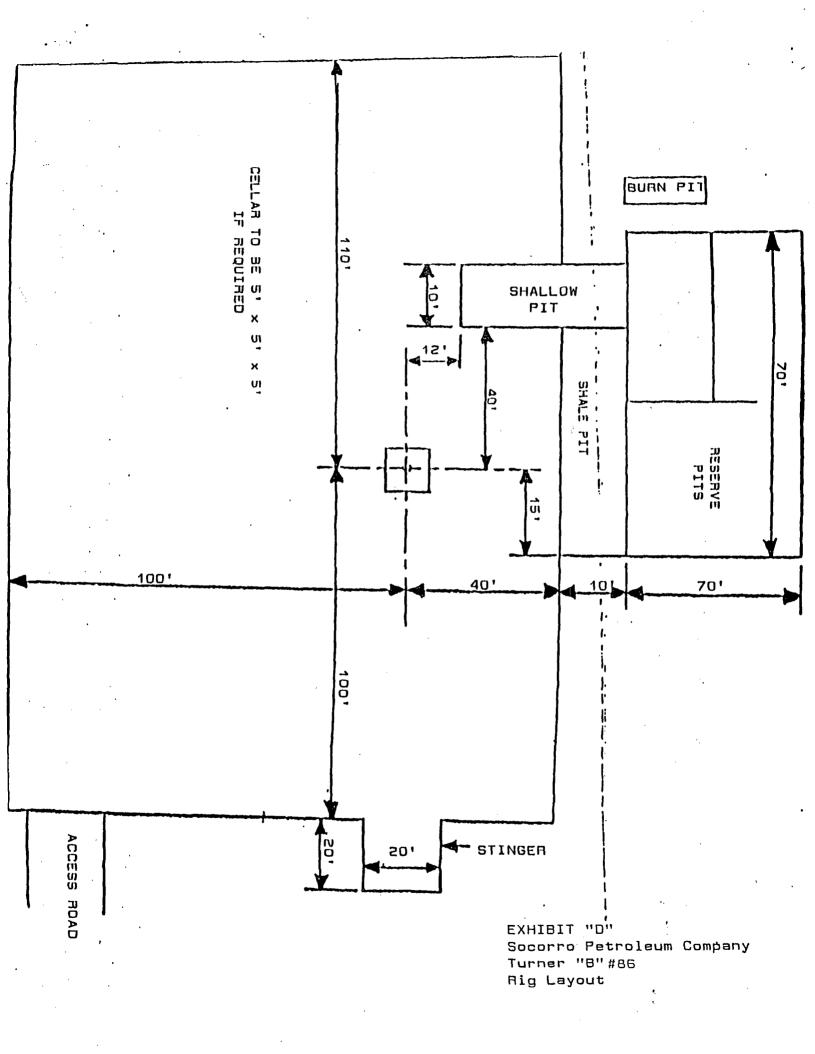
13. CERTIFICATION:

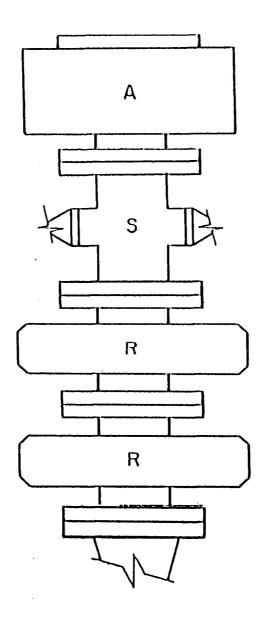
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by Socorro Petroleum Company and its contractors and subcontractors in conformity with this plan and their terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

ocorro Petroleum Company



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EXHIBIT "E"
Socorro Petroleum Company
Turner "B" #86
BOP Diagram

Form 3160-3 (July 1989) (formerly 9-331C)

(This space for Federal or State office use)

CONDITIONS OF APPROVAD, IF ANY:

PERMIT NO. ..

APPROVED BY _

UNITED STATES DEPARTMENT OF THE INTERIOR

BITI Roowell District Buillied Form No. NEWO-3160-2

DATE ...

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TITLE _

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

State of New Mexico Energy, Minerals and Natúrál Resources Department

Form C-102 Revised 1-1-89

Certificate No

8112

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICTION WELL LOCATION AND ACREAGE DEDICATION PLAT 1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Well No. **Uperator** Laire Socorro Petroleum Company Turner "B" Federal 87 Unit Letter Section Township County 17 South 29 31 East Eddy MIMA Actual Footage Location of Well: 1335 feet from the South 2625 led from the West line and line Ground level Elev. Producing Formation Pool Dedicated Acreage: 3741 Grayburg Jackson Grayburg Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? KX No If answer is "yes" type of consolidation If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary, No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Signature Which Printed Name John Gould. Position. Manager Company Socorro Petroleum Co. Date 5/14/90 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 knowledge and belief. 3744 3741 Date Supreseden, 2625' 3747 3740 Signature & Seal of

SOCORRO PETROLEUM COMPANY TURNER "B", Well No. 87 1335' FSL & 2625' FWL Eddy County, New Mexico Lease No.: LC-029395-B

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities, and the operations plan to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a BLM Quad map showing the location of the proposed well as staked, in relation to existing roads and U.S. Highway 82. The well is approximately 5.5 miles ESE of Loco Hills, New Mexico, with most of the distance paved.
- B. Directions: From Loco Hills go east on U.S. 82 5.7 miles to SH 222. Turn south on 222 and go 0.85 miles to existing lease road. Go west on lease road 1/2 of a mile, then south 1/4 of a mile to location. (See Exhibit "B".)

2. PLANNED ACCESS ROAD:

- A. Length and Width: A 1320' road 12' wide will be constructed from the existing access road south to the proposed wellsite.
- B. Construction: The new road will be 12° wide with a center crown, with 4 inches compacted caliche. The existing roads will be graded and topped with compacted caliche as needed.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cut and Fill: The area has 8 to 15 foot sand dunes and deflation basins to be leveled.
- F. Gates, Cattleguards: None required.

3. LOCATION OF EXISTING WELLS:

- A. Existing wells within a two miles radius are shown on Exhibit "C".
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;
 - A. There are production facilities on the lease at this time.

. APD
Socorro Petroleum Company
Turner "B", Well No. 87
Page -2-

10. Anticipated starting date:
Anticipated completion of drilling operations:

MULTI-PL AT SURFACE USE AND OPERATI AS PLAN

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SURFACE USE AND OPERATIONS PLAN Socorro Petroleum Comp. Jy Turner "B" #87 Page - 2 -

See Exhibit "C".

B. If the oil well proves to be commercial, the necessary production facilities will be installed on the drilling pad and flow lines will be installed along the proposed and existing access roads to the storage tanks.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6. SOURCES OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing access roads and the wellsite pad will be obtained from a Federal pit in the SE/4 of Section 7-T17S-R31E. The pit has been staked and cleared by the archaeologist. The topsoil from the location will be stockpiled near the location for future rehabilitation use. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access roads.

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or separate disposal application will be submitted to the BLM for approval.
- E. Dil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste papers, garbage and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste materials will be contained to prevent scattering by the wind.

SURFACE USE AND OPERA' ONS PLAN Socorro Petroleum Company Turner "B" #87 Page - 3 -

H. All trash and debris will be buried or removed from the well-site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELLSITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged.
- B. Mat Size: 140' x 210' plus reserve pits.
- C. Cut & Fill: The area has 5 to 12 foot sand dunes and deflation basins to be leveled.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. OTHER INFORMATION:

A. Topography: The wellsite and access road are located in the Querecho Plains, c. a. 2.45 miles east of Cedar Lake, c. a. 1.2 miles northwest of Taylor Draw and c. a. 1.3 miles southeast of Cedar Lake Draw. The project area consists of billow aeolian deposits, occuring in the form of dune rises (up to 10 metres in height), separated by swales. Deflation basins are elongate to circular in plan.

SURFACE USE AND OPERATIONS FLAN Socorro Petroleum Com, .ny Turner "B" #87 Page - 4 -

- B. Soil: The topsoil at the wellsite is Kermit-Berino fine sands.
- C. Flora and Fauna: The vegetative cover is one of a grassland environment and a scrub-grass scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in the area.
- F. Residences and Other Structures: None in the area.
- F. Land Use: Cattle grazing.
- G. Surface Ownership: The proposed wellsite and existing access road are on Federal surface and minerals.
- H. Archaeological survey will be sent to BLM under separate cover.

12. OPERATOR'S REPRESENTATIVE:

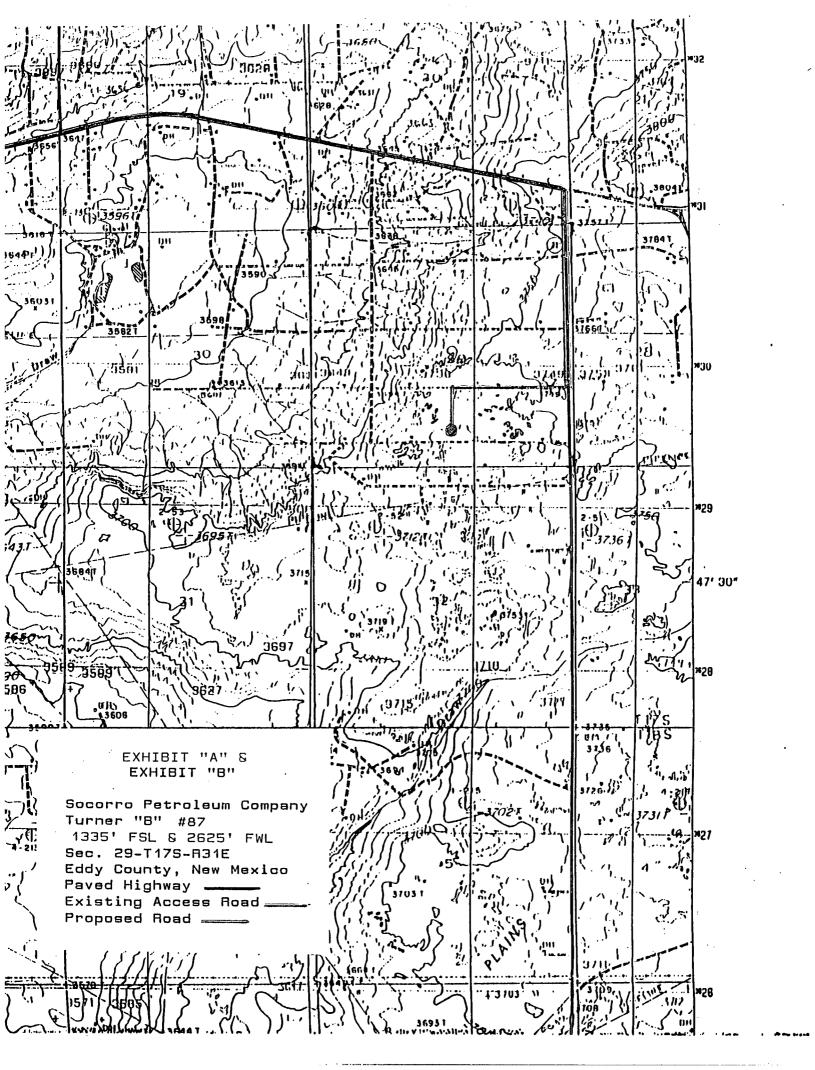
A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

Ben D. Gould Socorro Petroleum Company P. O. Box 38 Loco Hills, New Mexico 88255 (505) 677-2360

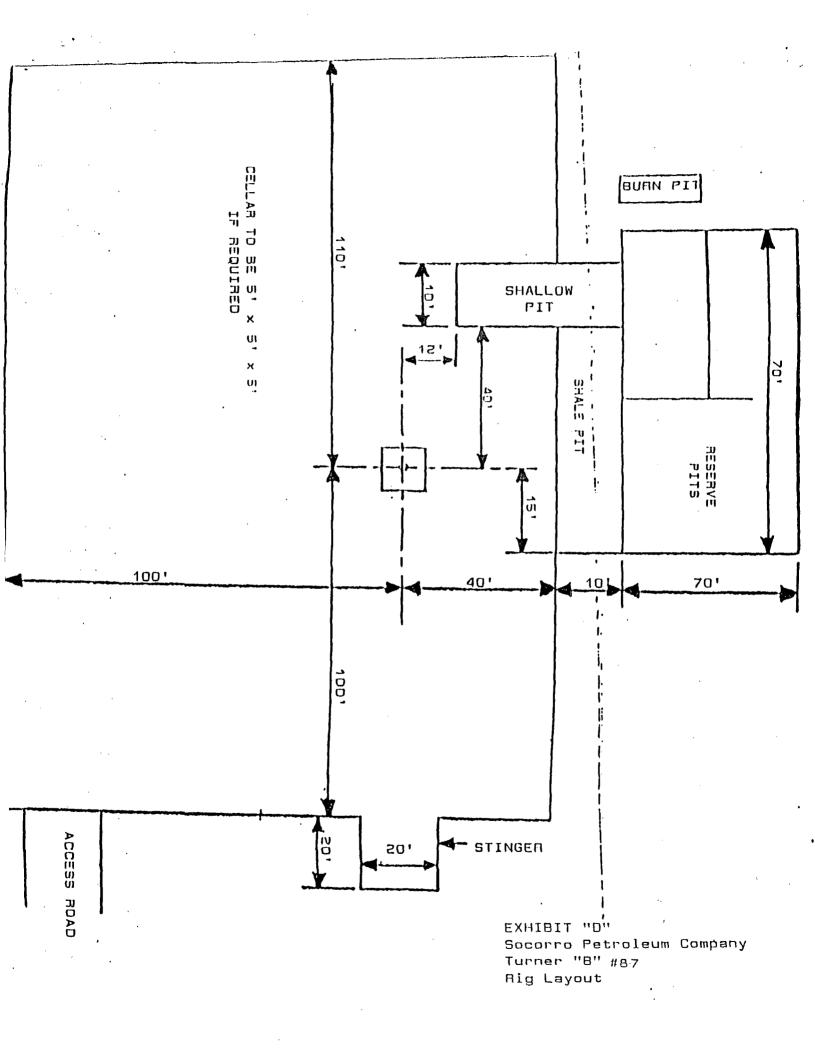
13. CERTIFICATION:

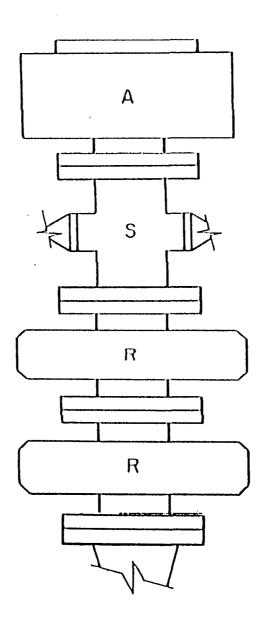
I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by Socorro Petroleum Company and its contractors and subcontractors in conformity with this plan and their terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Socorro Petroleum Company



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A - Stripping Rubber

R - Blind and Pipe Rams

EXHIBIT "E"
Socorro Petroleum Company
Turner "B" #87
BOP Diagram