



JERRY W. LONG
CONSULTANT

January 27, 1993

STATE OF NEW MEXICO
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501-2088

Re: Application for Unorthodox Oil Locations
SOCORRO PETROLEUM COMPANY
Keel-West Waterflood Project
Federal Lease LC 029426-A
Eddy County, New Mexico

Gentlemen:

You are respectfully requested to grant administrative approval under Rule 104F.(1) for unorthodox locations for infill producing wells within the Keel-West Waterflood Project, at the following locations:

No.24 H.E. West "A" - 2625'FNL, 15'FEL, Sec. 4, T.17S., R.31E.
No.25 H.E. West "A" - 2625'FNL, 1335'FWL, Sec. 3, T.17S., R.31E.

The above locations do not conform to Rule 104.C.I. because they are located closer than 330' to the governmental quarter-quarter section boundaries. They will be drilled to about 4900' to produce from the Grayburg-San Andres formation. The wells will be drilled at the unorthodox locations, in order to prevent waste by developing an efficient production and injection pattern within the Keel-West Waterflood Project, which was approved under Order R-2268, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, Application to Drill, and a map indicating lease ownership and locations of off-set Grayburg wells. The information in this request is accurate to the best of my knowledge.

A copy of this application has been mailed to the Bureau of Land Management. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

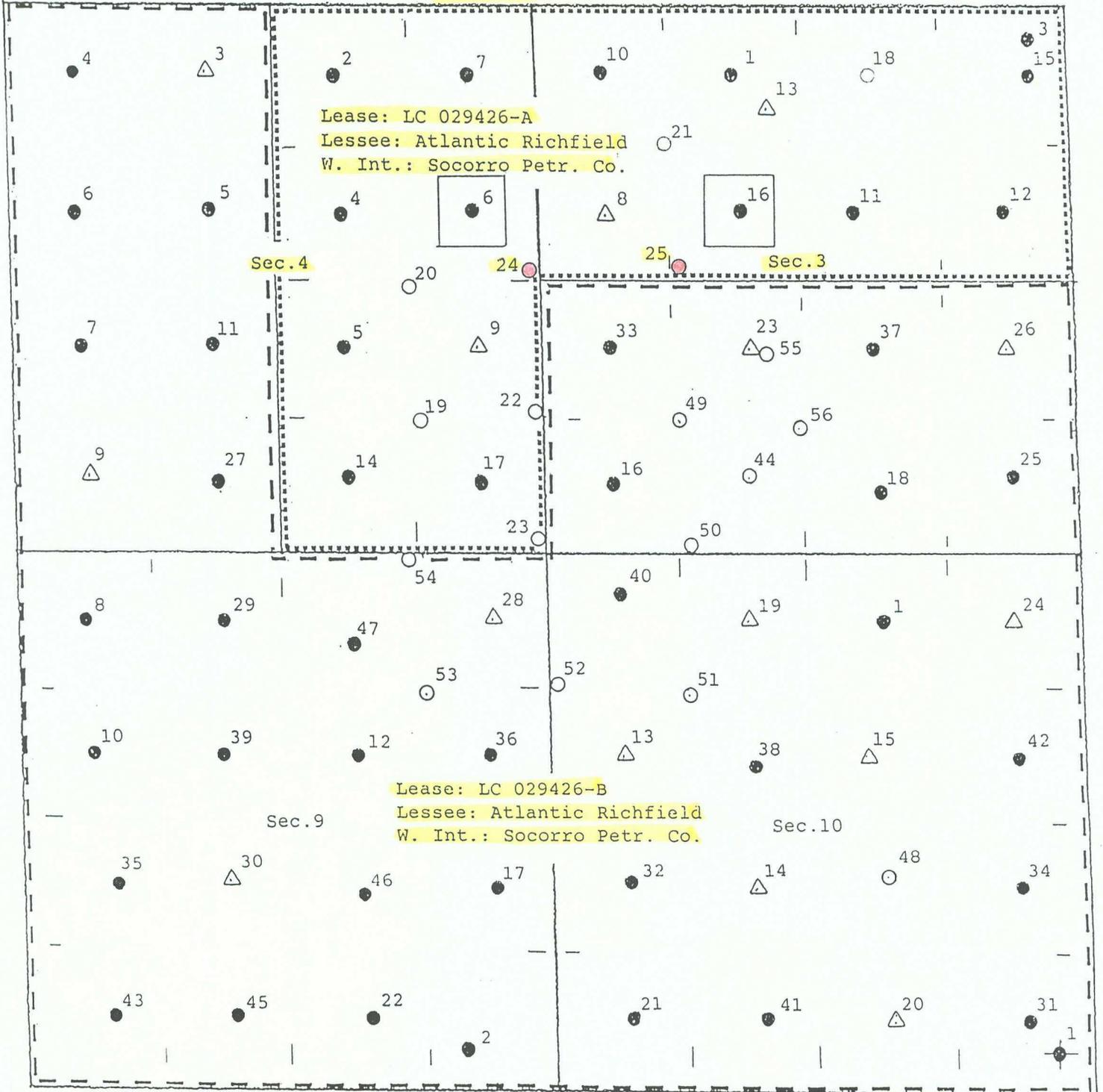
Sincerely yours,

JERRY W. LONG
Permit Agent for:
SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY
410 17th Street, Ste.430
Denver, CO 80202
Attn: Mr. Keeton Barker

SOCORRO PETROLEUM COMPANY
KEEL-WEST WATERFLOOD PROJECT
Eddy County, New Mexico

T.17S., R.31E.



Standard Location



Proposed Location

OWNERSHIP MAP

(Grayburg)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 2625' FNL, 15' FEL, Sec. 4, T. 17S., R. 31E. (Unit H)
 At proposed prod. zone Same (SENE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6.9 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 21'

16. NO. OF ACRES IN LEASE
 639.56 Ac.

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.
 933'±

19. PROPOSED DEPTH
 4900'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, CR, etc.)
 3938.3 GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.

9. API WELL NO.
 H.E. West "A" No. 24

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 4, T. 17S., R. 31E.

12. COUNTY OR PARISH
 Eddy

13. STATE
 N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/4/93
 JERRY W. LONG

(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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

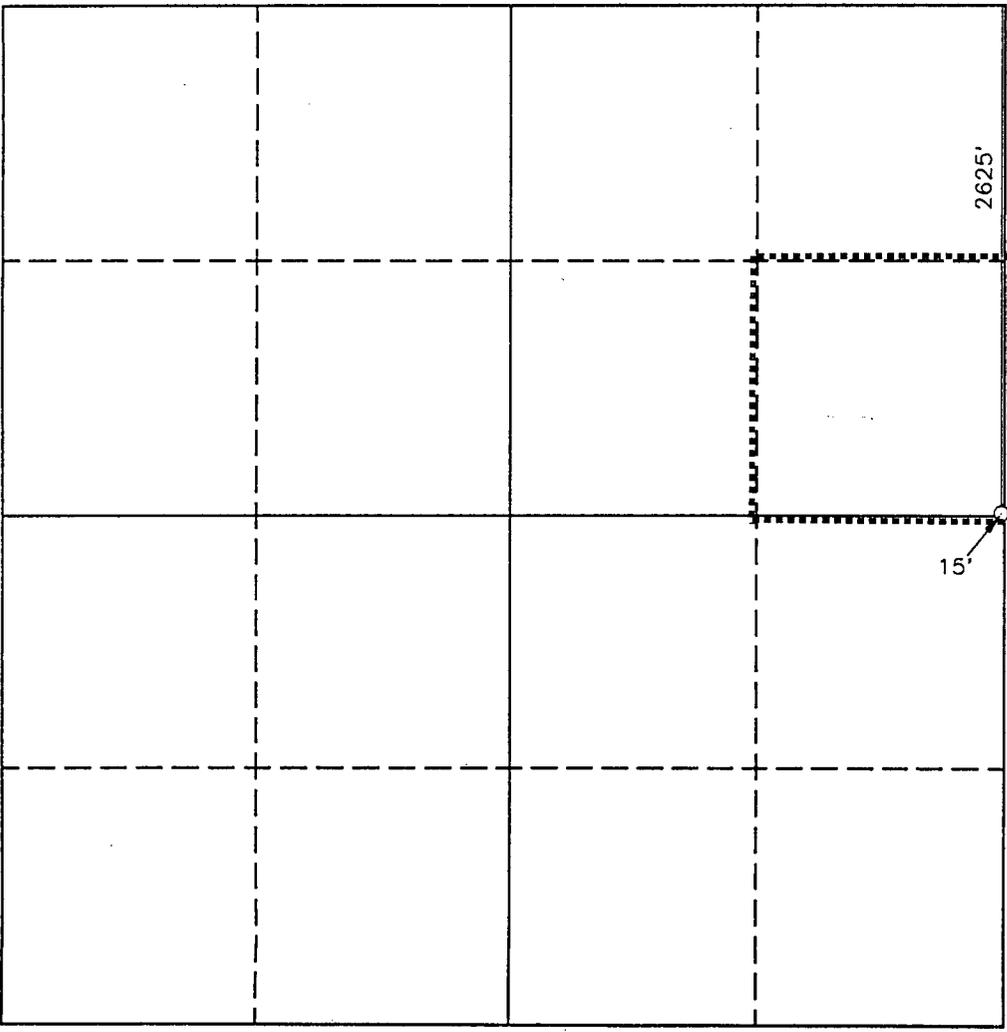
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H. E. WEST "A"		Well No. 24
Unit Letter H	Section 4	Township 17 SOUTH	Range 31 EAST NMPM	County EDDY
Actual Footage Location of Well: 2625 feet from the NORTH line and 15 feet from the EAST line				
Ground Level Elev. 3938.3	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation NA

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature: *Jerry W. Long*
 Printed Name: JERRY W. LONG
 Position: Permit Agent
 Company: SOCORRO PETROLEUM CO.
 Date: 1/4/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: DECEMBER 10, 1992

Signature & Seal of Professional Surveyor: *Gary L. Jones*

GARY L. JONES
 NEW MEXICO
 7977
 PROFESSIONAL SURVEYOR

Certificate No. JOAN W. WEST 876
 RONALD J. SOBOLEW 8239
 GARY L. JONES 7977

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 2625' FNL, 1335' FWL, Sec. 3, T. 17S., R. 31E. (Unit F)
 At proposed prod. zone Same (SENW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.2 Air miles northeast of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 15'

16. NO. OF ACRES IN LEASE 639.56 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3944.7 GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "A" No. 25

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 3, T. 17S., R. 31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
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24. SIGNED Jerry N. Long TITLE Permit Agent DATE 1/4/93
 (This space for Federal or State office use)

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State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised 1-1-89

OIL CONSERVATION DIVISION

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 Santa Fe, New Mexico 87504-2088

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 P.O. Box 1980, Hobbs, NM 88240

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

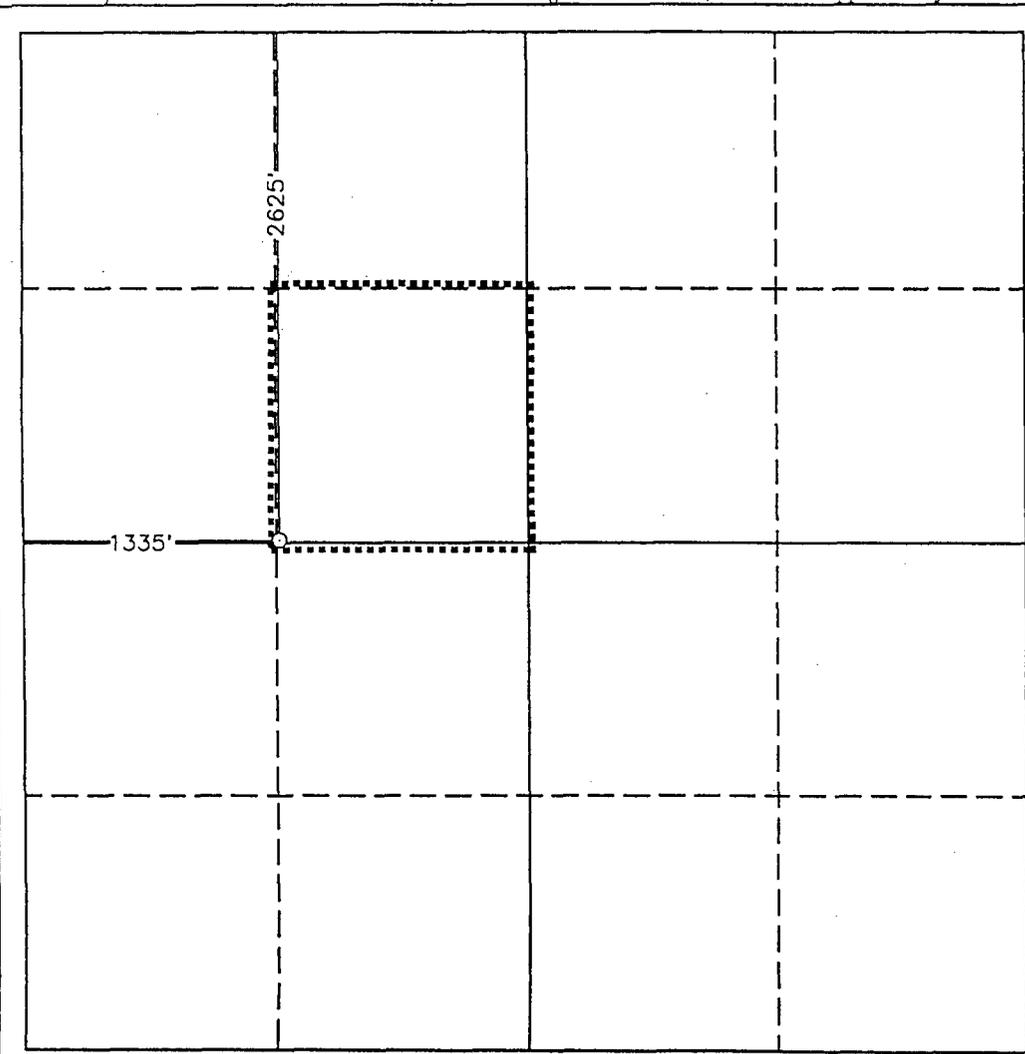
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H. E. WEST "A"		Well No. 25
Unit Letter F	Section 3	Township 17 SOUTH	Range 31 EAST NMPM	County EDDY
Actual Footage Location of Well: 2625 feet from the NORTH line and 1335 feet from the WEST line				
Ground Level Elev. 3944.7	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation NA

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



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I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *Jerry W. Long*
 Printed Name: JERRY W. LONG
 Position: Permit Agent
 Company: SOCORRO PETROLEUM CO.
 Date: 1/4/93

SURVEYOR CERTIFICATION

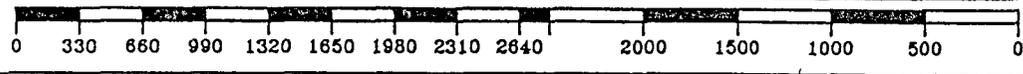
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Signature & Seal of Professional Surveyor

GARY L. JONES
 NEW MEXICO
 REGISTERED PROFESSIONAL SURVEYOR
 1870

Certificate No. JOHN W. WEST, 876
 RONALD L. EDSON, 8239
 GARY L. JONES, 7977





OIL CONSERVATION DIVISION
RECEIVED
JERRY W. LONG
CONSULTANT

100 FEB 11 AM 9 18
January 30, 1993

STATE OF NEW MEXICO
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501-2088

Re: Application for Unorthodox Oil Locations
SOCORRO PETROLEUM COMPANY
Keel-West Waterflood Project
Federal Lease LC 029426-B
Eddy County, New Mexico

Gentlemen:

You are respectfully requested to grant administrative approval under Rule 104F.(1) for unorthodox locations for infill producing wells within the Keel-West Waterflood Project, at the following locations:

- No.56 H.E. West "B" - 1205'FSL, 2530'FWL, Sec. 3, T.17S., R.31E.
- No.57 H.E. West "B" - 15'FSL, 2625'FWL, Sec. 3, T.17S., R.31E.
- No.58 H.E. West "B" - 1305'FNL, 2625'FWL, Sec.10, T.17S., R.31E.
- No.59 H.E. West "B" - 2625'FSL, 2625'FWL, Sec.10, T.17S., R.31E.
- No.60 H.E. West "B" - 2625'FNL, 1305'FWL, Sec.10, T.17S., R.31E.
- No.61 H.E. West "B" - 2625'FNL, 15'FWL, Sec.10, T.17S., R.31E.

The above locations do not conform to Rule 104.C.I. because they are located closer than 330' to the governmental quarter-quarter section boundaries. They will be drilled to about 4900' to produce from the Grayburg-San Andres formation. The wells will be drilled at the unorthodox locations, in order to prevent waste by developing an efficient production and injection pattern within the Keel-West Waterflood Project, which was approved under Order R-2268, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, Application to Drill, and a map indicating lease ownership and locations of off-set Grayburg wells. The information in this request is accurate to the best of my knowledge.

A copy of this application has been mailed to the Bureau of Land Management. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

Sincerely yours,

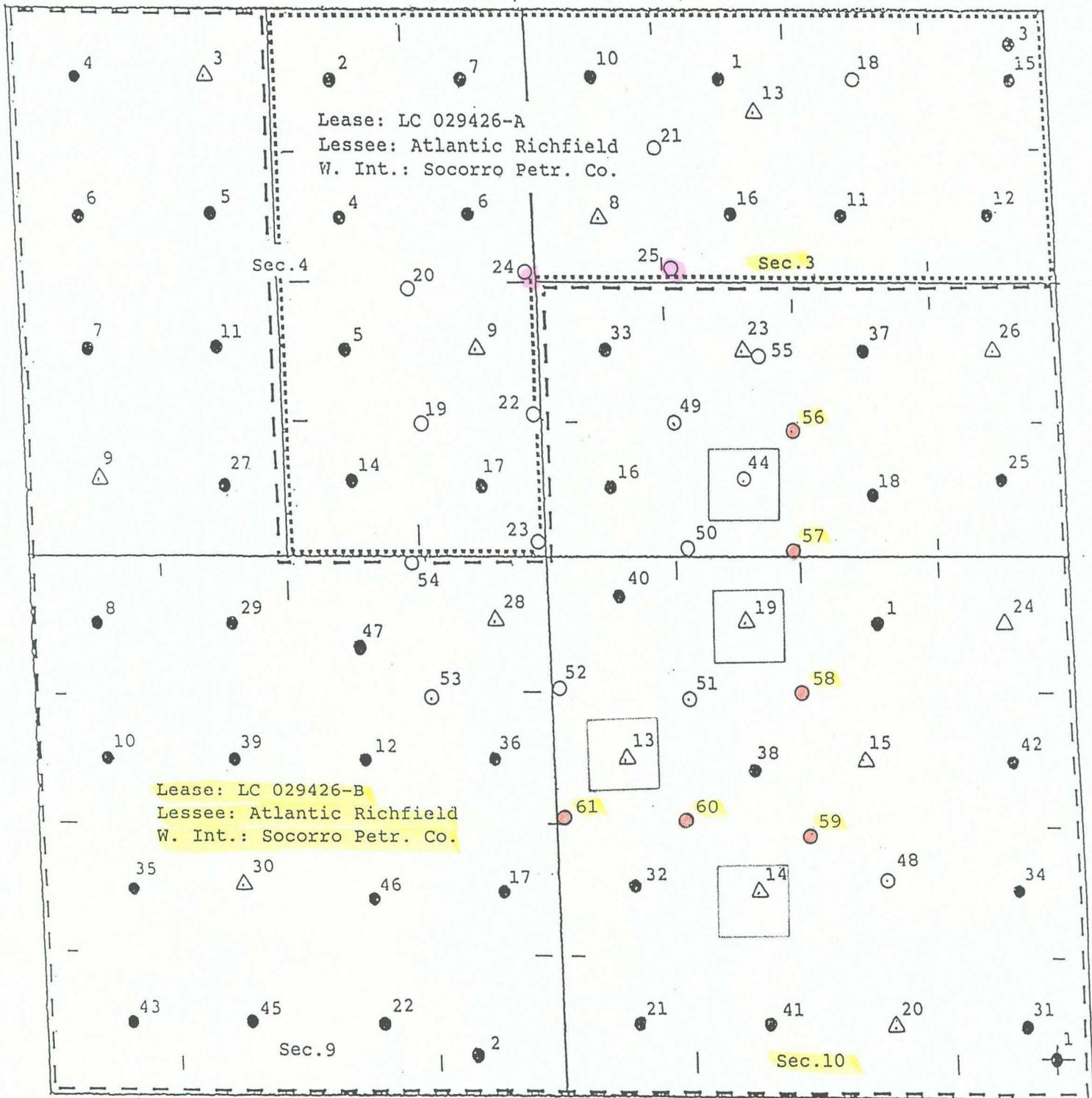
JERRY W. LONG
Permit Agent for:
SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY
410 17th Street, Ste.430
Denver, CO 80202
Attn: Mr. Keeton Barker

JWL/bll

SOCORRO PETROLEUM COMPANY
 KEEL-WEST WATERFLOOD PROJECT
 Eddy County, New Mexico

T.17S., R.31E.



Standard Location



Proposed Location

OWNERSHIP MAP

(Grayburg)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Ph.505-677-3223
 SOCORRO PETROLEUM COMPANY

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 1205'FSL, 2530'FWL, Sec.3, T.17S., R.31E. (Unit N)
 At proposed prod. zone Same (SESW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.2 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1435'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 800'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3944.1' GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No.56

9. AM WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA
 Sec.3, T.17S., R.31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

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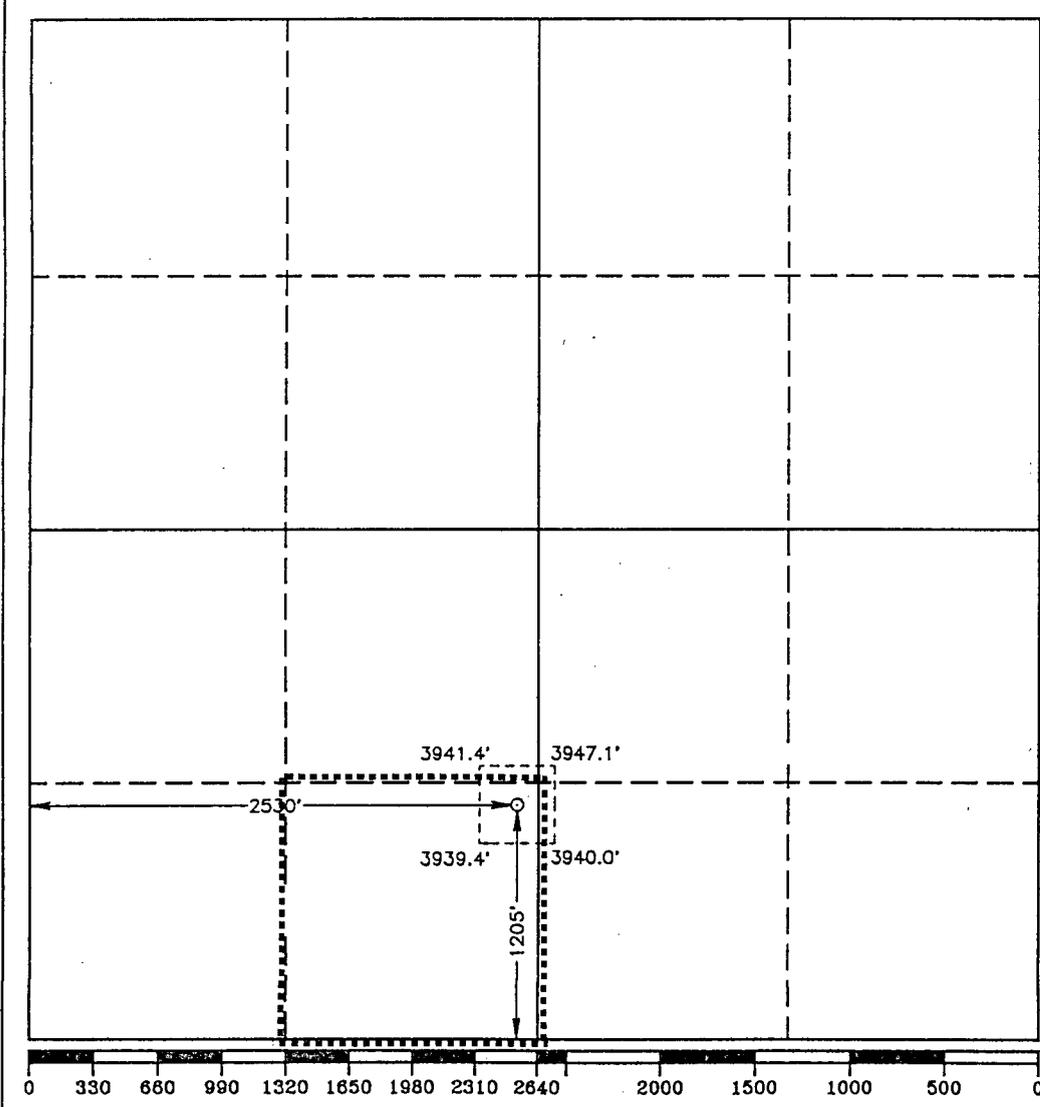
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H.E. WEST "B"		Well No. 56
Unit Letter N	Section 3	Township 17 SOUTH	Range 31 EAST	County EDDY
Actual Footage Location of Well: 1205 feet from the SOUTH line and 2530 feet from the WEST line				
Ground Level Elev. 3944.1'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

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 Yes No If answer is "yes" type of consolidation NA
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Signature: *Jerry W. Long*
 Printed Name: **JERRY W. LONG**
 Position: **Permit Agent**
 Company: **SOCORRO PETROLEUM COMPANY**
 Date: **1/18/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 11, 1993**

Signature & Seal of Professional Surveyor:
Gary L. Jones
 GARY L. JONES
 7977
 REGISTERED PROFESSIONAL SURVEYOR

Certificate No. **ROSE H. HULL 878**
COHAUT B. HUSTON 3239
ROCHELLE M. ROBERT 7977

93-11-0038

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

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 At proposed prod. zone Same (SESW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.4 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2625'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3935.3 GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

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 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME WELL NO.
 H.E. West "B" No. 57

9. AP WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 3, T. 17S., R. 31E.

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13. STATE N.M.

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SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
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7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

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Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 12/29/92
 (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 _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

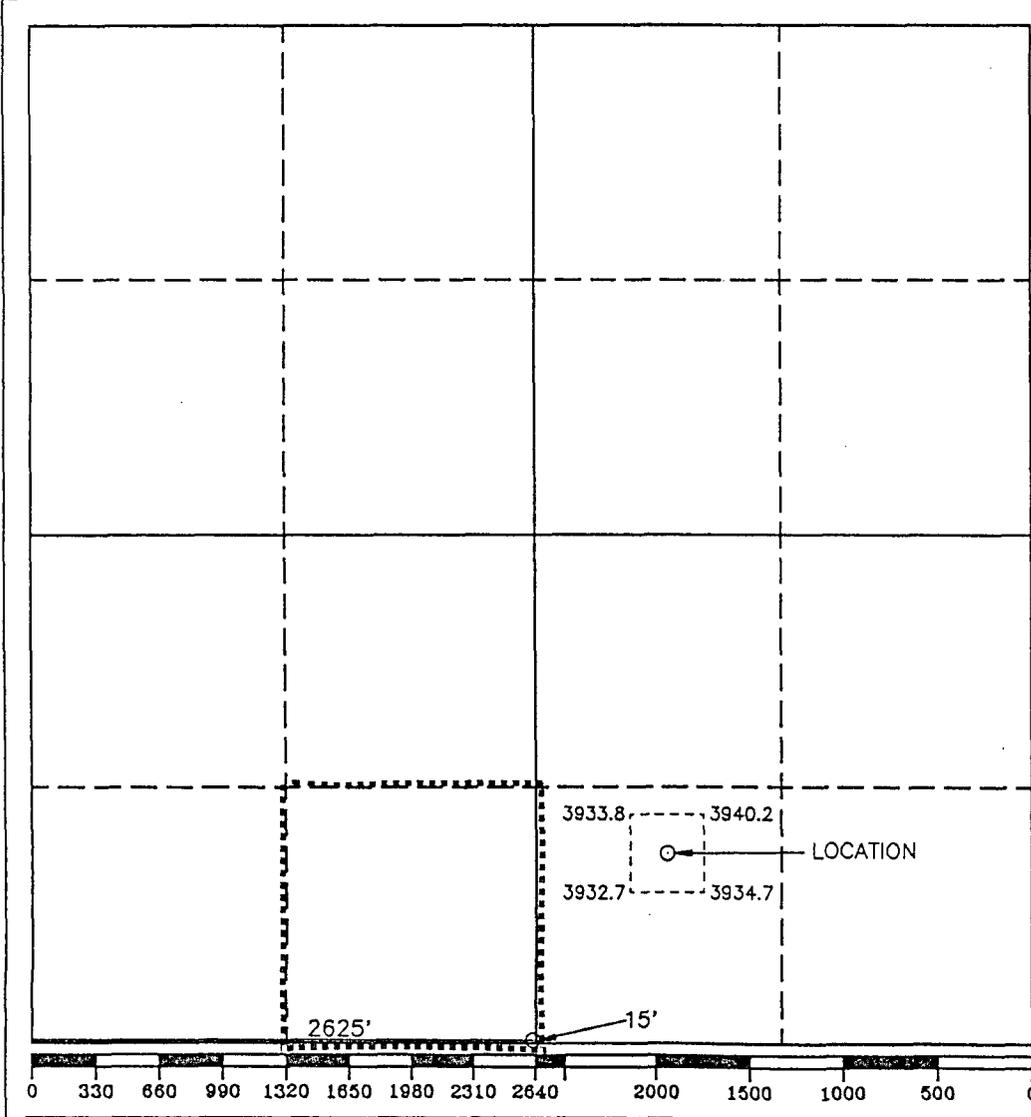
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H. E. WEST "B"		Well No. 57
Unit Letter N	Section 3	Township 17 SOUTH	Range 31 EAST	County EDDY	
Actual Footage Location of Well: 15 feet from the SOUTH line and 2625 feet from the WEST line					
Ground Level Elev. 3935.3	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation NA

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature: *Jerry W. Long*
 Printed Name: JERRY W. LONG
 Position: Permit Agent
 Company: SOCORRO PETROLEUM CO.
 Date: December 30, 1992

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 knowledge and belief.

Date Surveyed: DECEMBER 9, 1992
 Signature & Seal of Professional Surveyor: *Gary L. Jones*
 Certificate No. 678 (JOHN W. WEST), 8239 (RONALD J. EDSON), 7977 (GARY L. JONES)
 92-11-1872

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.
LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Keel-West Waterflood Project

8. FARM OR LEASE NAME WELL NO.
H.E. West "B" No.58

9. AHWELL NO.

10. FIELD AND POOL, OR WILDCAT
Grayburg-Jackson Pool

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
Sec.10, T.17S., R.31E.

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

1a. TYPE OF WORK
DRILL DEEPEN

b. TYPE OF WELL
OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
SOCORRO PETROLEUM COMPANY
Ph.505-677-3223

3. ADDRESS AND TELEPHONE NO.
P.O. Box 37
Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1305' FNL, 2625' FWL, Sec.10, T.17S., R.31E. (Unit C)
At proposed prod. zone Same (NENW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
7.3 Air miles northeast of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2655'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3934.7 GL

22. APPROX. DATE WORK WILL START* As Soon As Possible

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASINO	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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.

34. SIGNED Jerry W. Long TITLE Permit Agent DATE 12/31/92
JERRY W. LONG

(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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

Submit to Appropriate
 District Office
 State Lease - 4 copies
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State of New Mexico
 Energy, Minerals and Natural Resources Department

Form C-102
 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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., Artec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

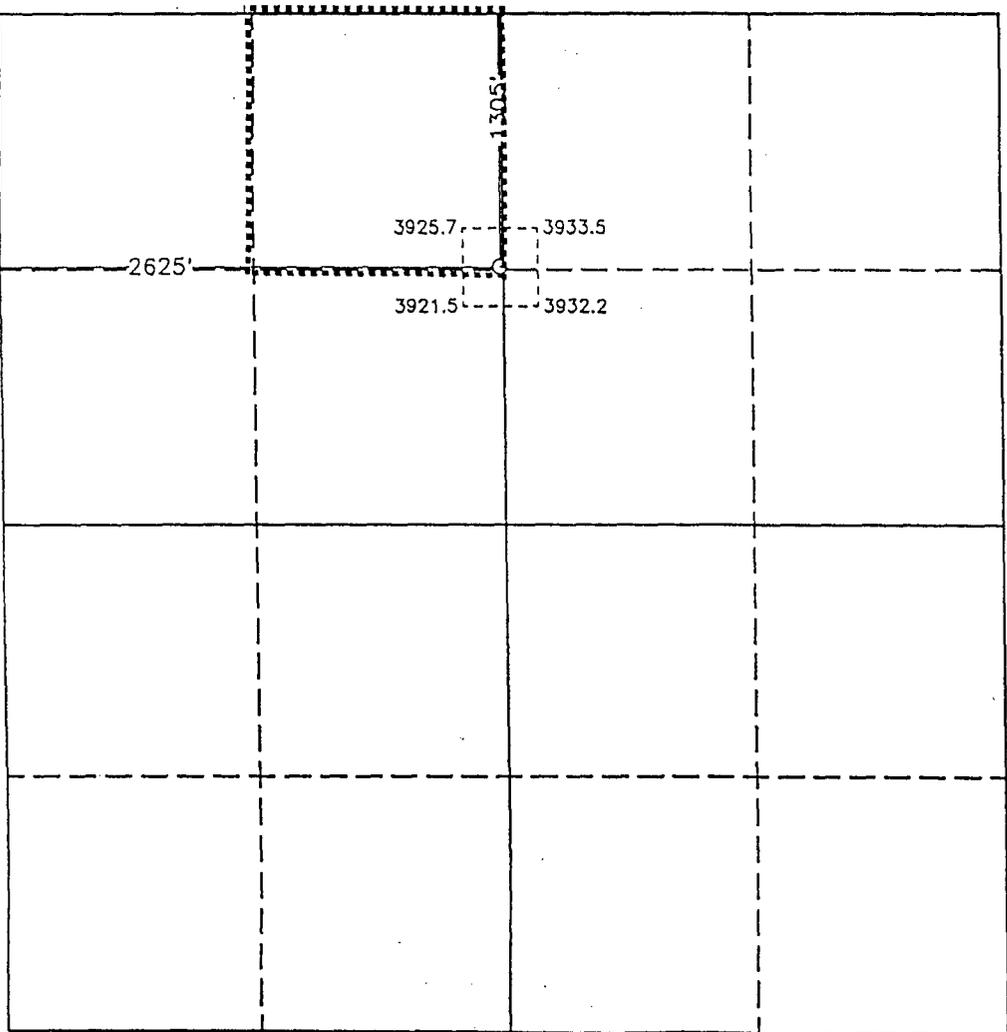
Operator SOCORRO PETROLEUM COMPANY		Lease H. E. WEST "B"		Well No. 58
Unit Letter C	Section 10	Township 17 SOUTH	Range 31 EAST NMPM	County EDDY
Actual Footage Location of Well: 1305 feet from the NORTH line and 2625 feet from the WEST line				
Ground Level Elev. 3934.7	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 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.?
 Yes No If answer is "yes" type of consolidation NA

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
 No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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: *Jerry W. Long*
 Printed Name: JERRY W. LONG
 Position: Permit Agent
 Company: SOCORRO Petroleum CO.
 Date: December 31, 1992

SURVEYOR CERTIFICATION

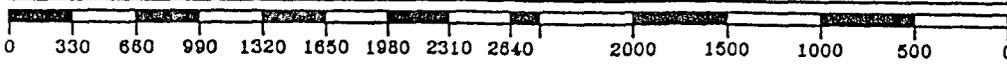
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: DECEMBER 9, 1992

Signature & Seal of Professional Surveyor: *Gary L. Jones*

Certificate No. JOHN W. WEST, 876
RONALD L. EDSON, 8239
GARY L. JONES, 7977

92-11-1873



**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC 029426-B		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER IN-FILL WELL SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---		
2. NAME OF OPERATOR SOCORRO PETROLEUM COMPANY			7. UNIT AGREEMENT NAME Keel-West Waterflood Project		
3. ADDRESS AND TELEPHONE NO. P.O. Box 37 Loco Hills, New Mexico 88255			8. FARM OR LEASE NAME, WELL NO. H.E. West "B" No.59		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2625' FSL, 2625' FWL, Sec.10, T.17S., R.31E. (Unit K) At proposed prod. zone Same (NESW)			9. AM WELL NO.		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7.25 Air miles northeast of Loco Hills, New Mexico			10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool		
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2625'		16. NO. OF ACRES IN LEASE 1919.88 Ac.		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. 933'±		19. PROPOSED DEPTH 4900'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3910.5 GL			22. APPROX. DATE WORK WILL START* As Soon As Possible		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 12/31/92
JERRY W. LONG
(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 _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**

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

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

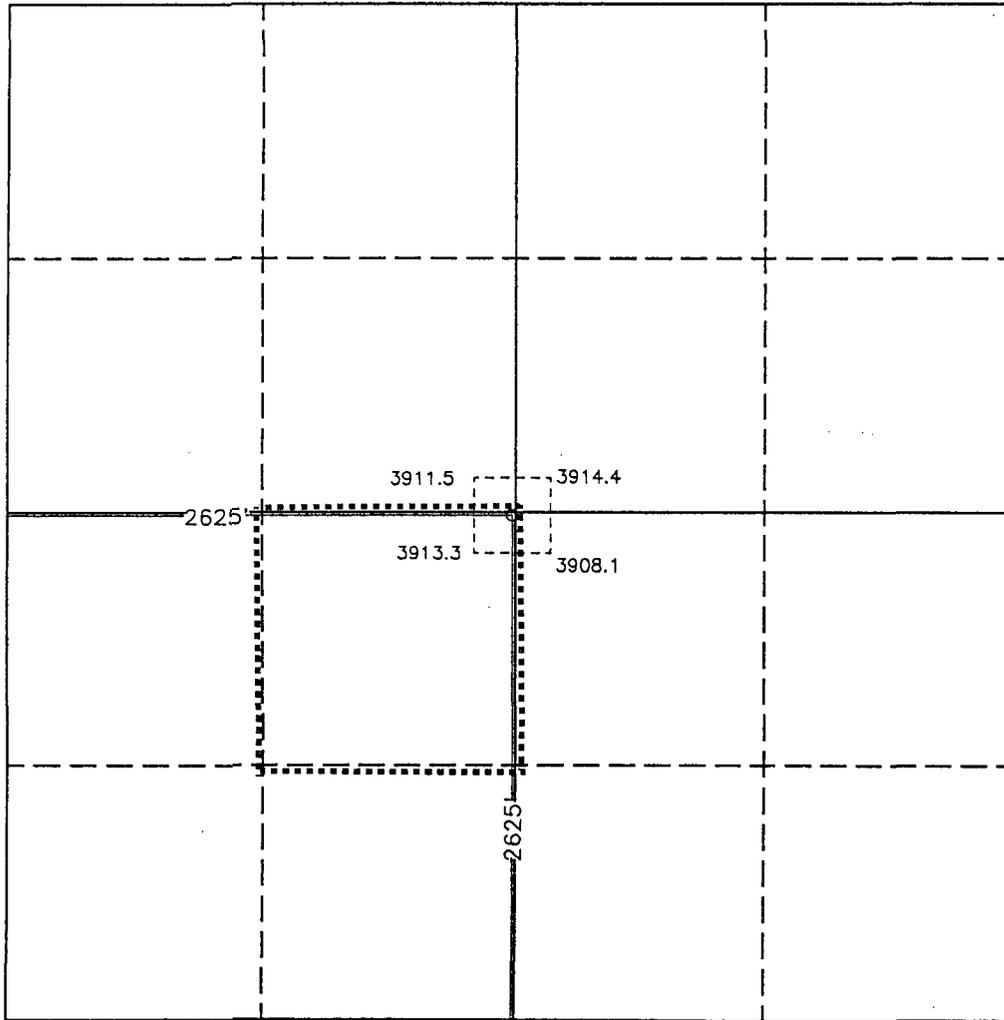
DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H. E. WEST "B"		Well No. 59
Unit Letter K	Section 10	Township 17 SOUTH	Range 31 EAST	County NMPM EDDY	
Actual Footage Location of Well: 2625 feet from the SOUTH line and 2625 feet from the WEST line					
Ground Level Elev. 3910.5	Producing Formation Grayburg-San Andres		Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Long
 Printed Name
 JERRY W. LONG
 Position
 Permit Agent
 Company
 SOCORRO PETROLEUM CO.
 Date
 December 31, 1992

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 knowledge and belief.

Date Surveyed
 DECEMBER 11, 1992

Signature & Seal of
 Professional Surveyor

Gary L. Jones
 GARY L. JONES
 NEW MEXICO
 1997
 REGISTERED PROFESSIONAL SURVEYOR
 Certificate No. JOHN W. WEST, 876
 RONALD J. EDSON, 8239
 GARY L. JONES, 7977
 92-11-1874

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC 029426-B		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER IN-FILL WELL <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---		
2. NAME OF OPERATOR SOCORRO PETROLEUM COMPANY			7. UNIT AGREEMENT NAME Keel-West Waterflood Project		
3. ADDRESS AND TELEPHONE NO. P.O. Box 37 Loco Hills, New Mexico 88255			8. FARM OR LEASE NAME, WELL NO. H.E. West "B" No.60		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2625'FNL, 1305'FWL, Sec.10, T.17S., R.31E. (Unit E) At proposed prod. zone Same (SWNW)			9. APWELL NO.		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7.0 Air miles northeast of Loco Hills, New Mexico			10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool		
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2655'		16. NO. OF ACRES IN LEASE 1919.88 Ac.		17. NO. OF ACRES ASSIGNED TO THIS WELL 40	
13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933'±		19. PROPOSED DEPTH 4900'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3914.0 GL			22. APPROX. DATE WORK WILL START* As Soon As Possible		

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/4/93
JERRY W. LONG
 (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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

Submit to Appropriate
District Office
State Lease - 4 copies
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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
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P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

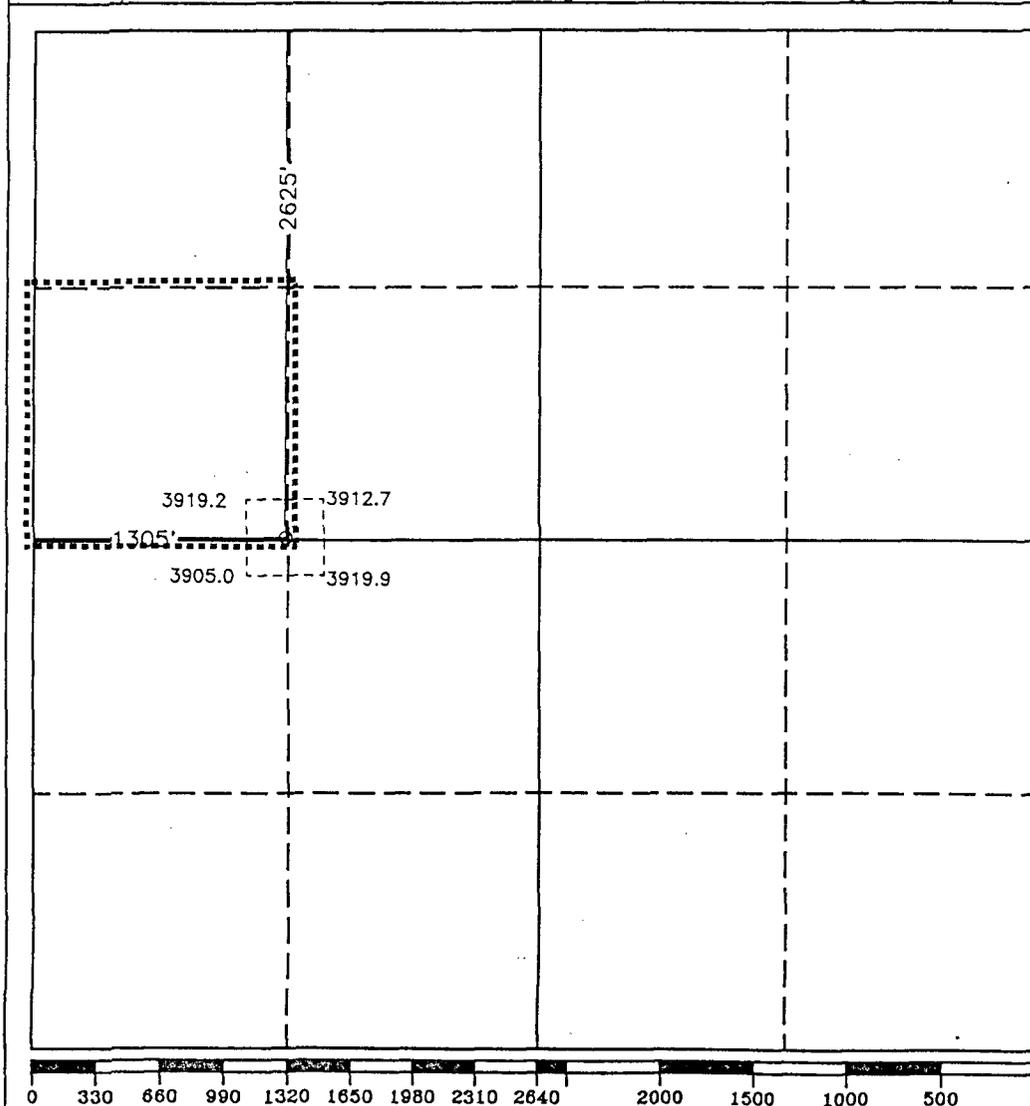
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H. E. WEST "B"		Well No. 60
Unit Letter E	Section 10	Township 17 SOUTH	Range 31 EAST	County NMPM	EDDY
Actual Footage Location of Well:					
2625 feet from the NORTH line and		1305 feet from the WEST line			
Ground Level Elev. 3914.0	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation NA

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

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OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Long

Printed Name
JERRY W. LONG

Position
Permit Agent

Company
SOCORRO PETROLEUM CO.

Date
1/4/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
DECEMBER 11, 1992

Signature & Seal of
Professional Surveyor

Certificate No. JOHN W. WEST 878
RONALD J. EDSON 8239
GARY L. JONES 7977

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph.505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 2625' FNL, 15' FWL, Sec.10, T.17S., R.31E. (Unit E)
 At proposed prod. zone Same (SWNW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6.75 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 2655'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3902.2 GL

22. APPROX. DATE WORK WILL START* As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No.61

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA
 Sec.10, T.17S., R.31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

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24. SIGNED Jerry W. Long TITLE Permit Agent DATE 1/4/93
 (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 _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**



FEB 11 AM 9 10

JERRY W. LONG
CONSULTANT

February 3, 1993

STATE OF NEW MEXICO
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501-2088

Re: Application for Unorthodox Oil Locations
SOCORRO PETROLEUM COMPANY
Keel-West Waterflood Project
Federal Lease LC 029426-B
Eddy County, New Mexico

Gentlemen:

You are respectfully requested to grant administrative approval under Rule 104F.(1) for unorthodox locations for infill producing wells within the Keel-West Waterflood Project, at the following locations:

- No.62 H.E. West "B" - 2625'FSL, 1335'FEL, Sec. 9, T.17S., R.31E.
- No.63 H.E. West "B" - 1335'FNL, 2555'FEL, Sec. 9, T.17S., R.31E.
- No.64 H.E. West "B" - 15'FNL, 2625'FEL, Sec. 9, T.17S., R.31E.
- No.65 H.E. West "B" - 15'FSL, 1335'FEL, Sec. 3, T.17S., R.31E.
- No.66 H.E. West "B" - 1230'FNL, 1435'FEL, Sec.10, T.17S., R.31E.

The above locations do not conform to Rule 104.C.I. because they are located closer than 330' to the governmental quarter-quarter section boundaries. They will be drilled to about 4900' to produce from the Grayburg-San Andres formation. The wells will be drilled at the unorthodox locations in order to prevent waste by developing an efficient production and injection pattern within the Keel-West Waterflood Project, which was approved under Order R-2268, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, Application to Drill, and a map indicating lease ownership and locations of off-set Grayburg wells. The information in this request is accurate to the best of my knowledge.

A copy of this application has been mailed to the Bureau of Land Management. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

Sincerely yours,

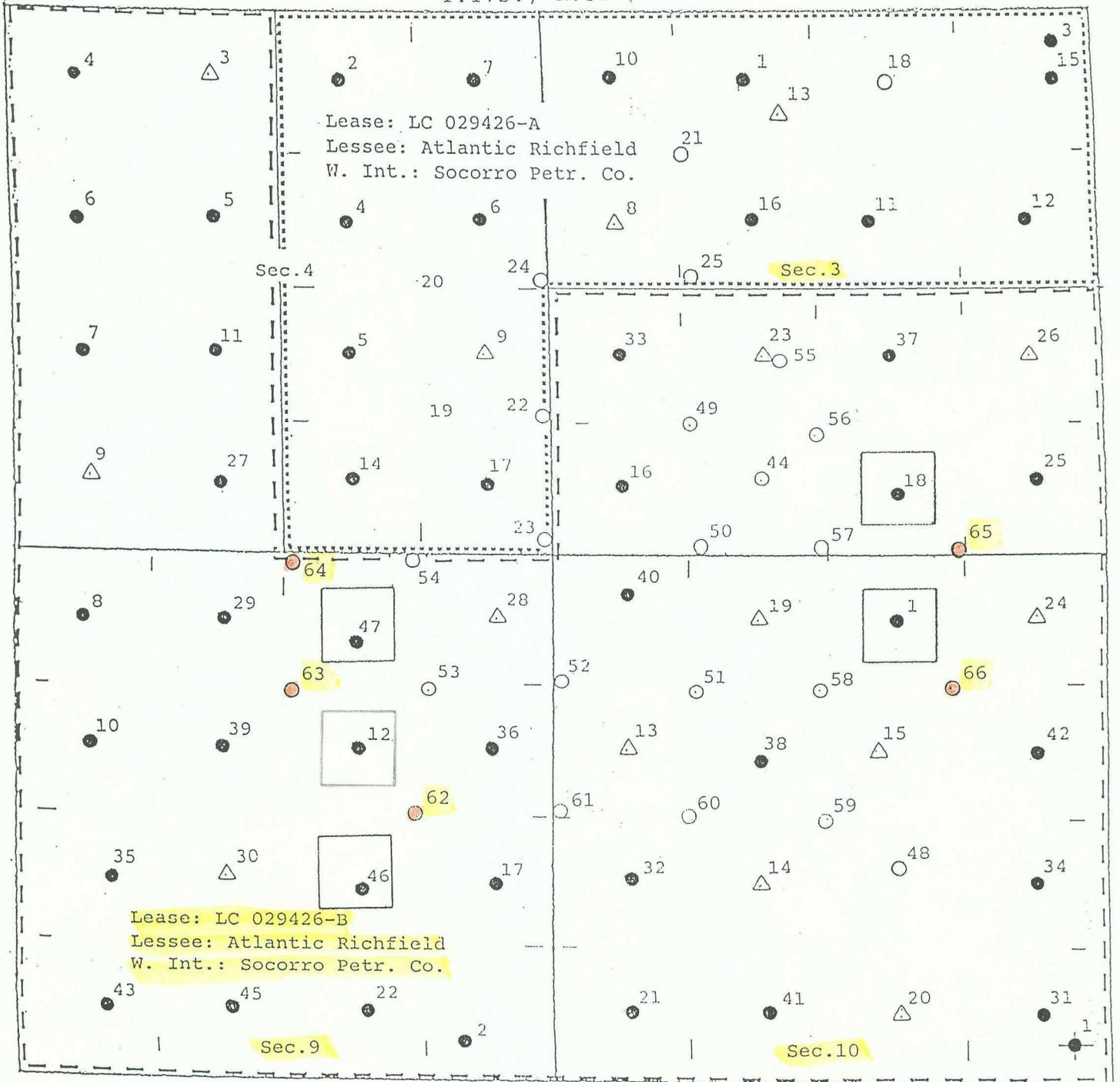
JERRY W. LONG
Permit Agent for:
SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY
410 17th Street, Ste.430
Denver, CO 80202
Attn: Mr. Keeton Barker

JWL/bl1

SOCORRO PETROLEUM COMPANY
KEEL-WEST WATERFLOOD PROJECT
Eddy County, New Mexico

T. 17S., R. 31E.



□ Standard Location

● Proposed Location

OWNERSHIP MAP
(Grayburg)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL **DEEPEN**

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 2625' FSL, 1335' FEL, Sec. 9, T. 17S., R. 31E. (Unit J)
 At proposed prod. zone Same (NWSE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6.3 Air miles northeast of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2625'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3890.2 GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.

9. API WELL NO.
 H.E. West "B" No. 62

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 9, T. 17S., R. 31E.

12. COUNTY OR PARISH 13. STATE
 Eddy N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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.

34. SIGNED Jerry W. Long TITLE Permit Agent DATE 1/11/93
 JERRY W. LONG

(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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

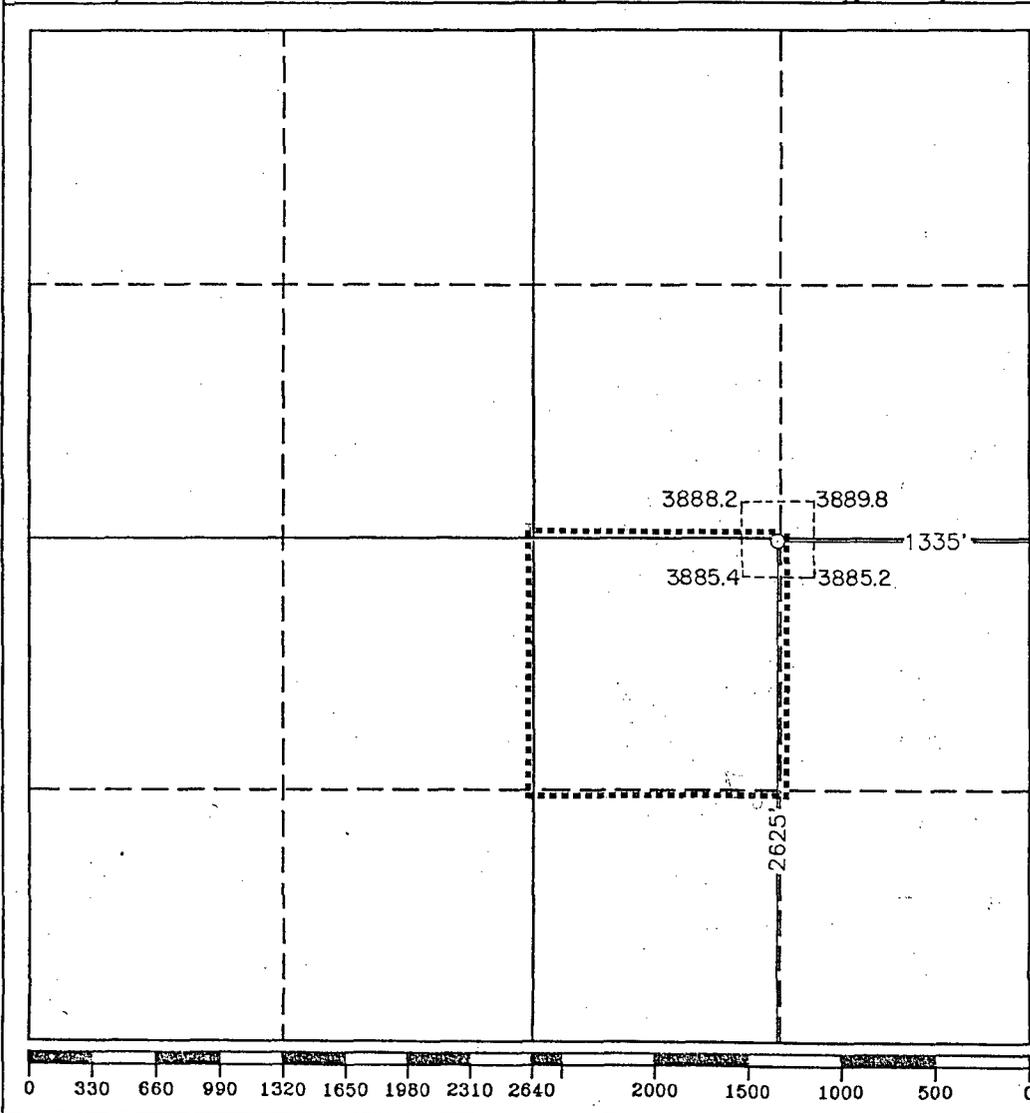
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H. E. WEST "B"		Well No. 62
Unit Letter J	Section 9	Township 17 SOUTH	Range 31 EAST NMPM	County EDDY
Actual Footage Location of Well: 2625 feet from the SOUTH line and 1335 feet from the EAST line				
Ground Level Elev. 3890.2	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation NA

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Long

Printed Name
JERRY W. LONG

Position
Permit Agent

Company
SOCORRO PETROLEUM CO.

Date
1/11/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
DECEMBER 11, 1992

Signature & Seal of Professional Surveyor
[Signature]

Certificate No. JOHN W. WEST 676
RONALD J. EDSON 8239
GARY L. JONES 7077

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1335' FNL, 2555' FEL, Sec. 9, T. 17S., R. 31E. (Unit G)
 At proposed prod. zone Same (SWNE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6.1 Air miles northeast of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 900'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3890.8 GL

22. APPROX. DATE WORK WILL START* As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT ASSIGNMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.

9. AP WELL NO.
 H.E. West "B" No. 63

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 9, T. 17S., R. 31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/12/93
 (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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

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

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

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

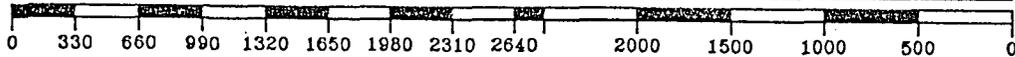
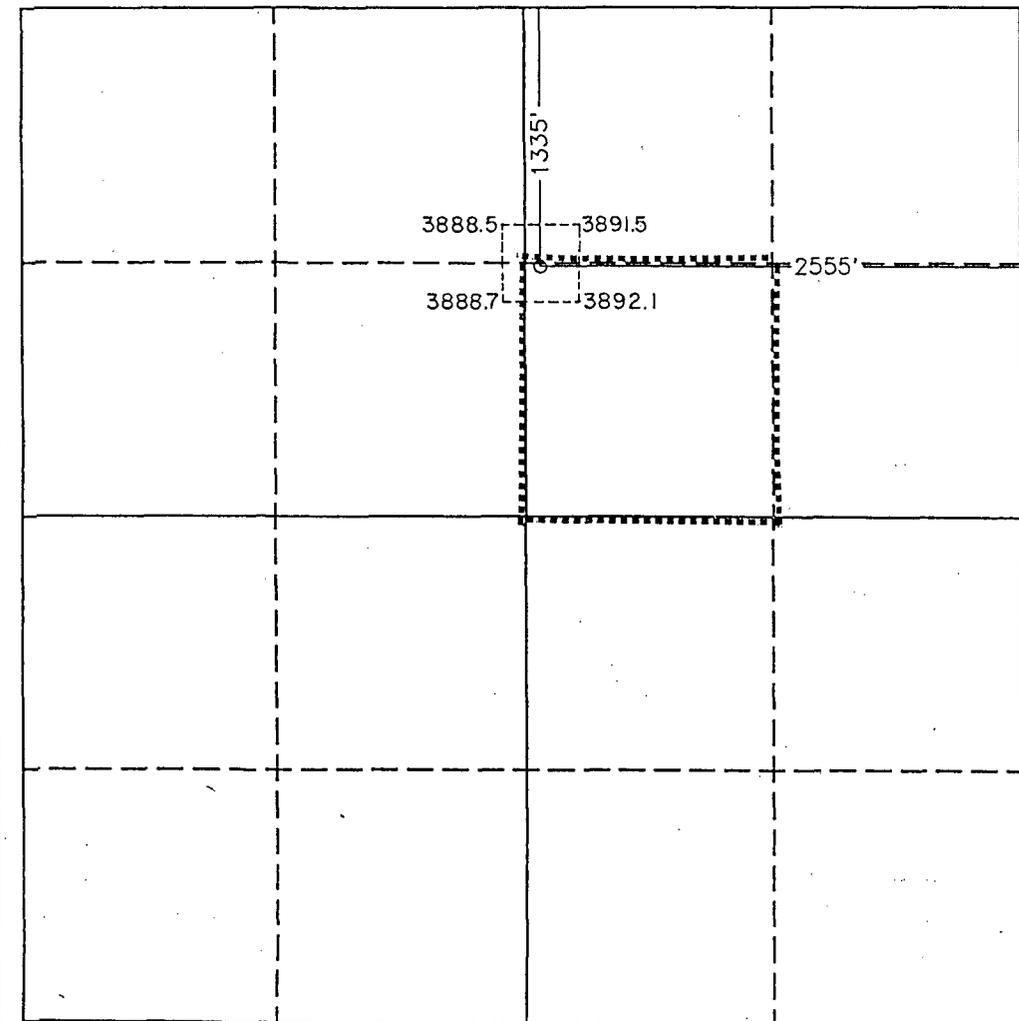
WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H. E. WEST "B"		Well No. 63
Unit Letter G	Section 9	Township 17 SOUTH	Range 31 EAST	County EDDY	
Actual Footage Location of Well: 1335 feet from the NORTH line and 2555 feet from the EAST line					
Ground Level Elev. 3890.8	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation NA

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
 No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature: *Jerry W. Long*
 Printed Name: JERRY W. LONG
 Position: Permit Agent
 Company: SOCORRO PETROLEUM CO.
 Date: 1/12/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: DECEMBER 10, 1992

Signature & Seal of Professional Surveyor: *Gary L. Jones*

GARY L. JONES
 NEW MEXICO
 PROFESSIONAL SURVEYOR

Certificate No. JOHN W. SYBERT, 676
 RONALD J. EDSON, 8239
 GARY L. JONES, 7977

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1A. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC 029426-B	
D. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER IN-FILL WELL <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
2. NAME OF OPERATOR SOCORRO PETROLEUM COMPANY			7. UNIT AGREEMENT NAME Keel-West Waterflood Project	
3. ADDRESS AND TELEPHONE NO. P.O. Box 37 Loco Hills, New Mexico 88255			8. FARM OR LEASE NAME, WELL NO.	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 15' FNL, 2625' FEL, Sec. 9, T.17S., R.31E. (Unit B) At proposed prod. zone Same (NWNE)			9. AP WELL NO. H.E. West "B" No.64	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6.3 Air miles northeast of Loco Hills, New Mexico			10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool	
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 15'		16. NO. OF ACRES IN LEASE 1919.88 Ac.	17. NO. OF ACRES ASSIGNED TO THIS WELL 40	
13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933'±		19. PROPOSED DEPTH 4900'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3904.3 GL			12. COUNTY OR PARISH Eddy	
			13. STATE N.M.	
			22. APPROX. DATE WORK WILL START* As Soon As Possible	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry H. Long TITLE Permit Agent DATE 1/14/93
(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 _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**

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

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

P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

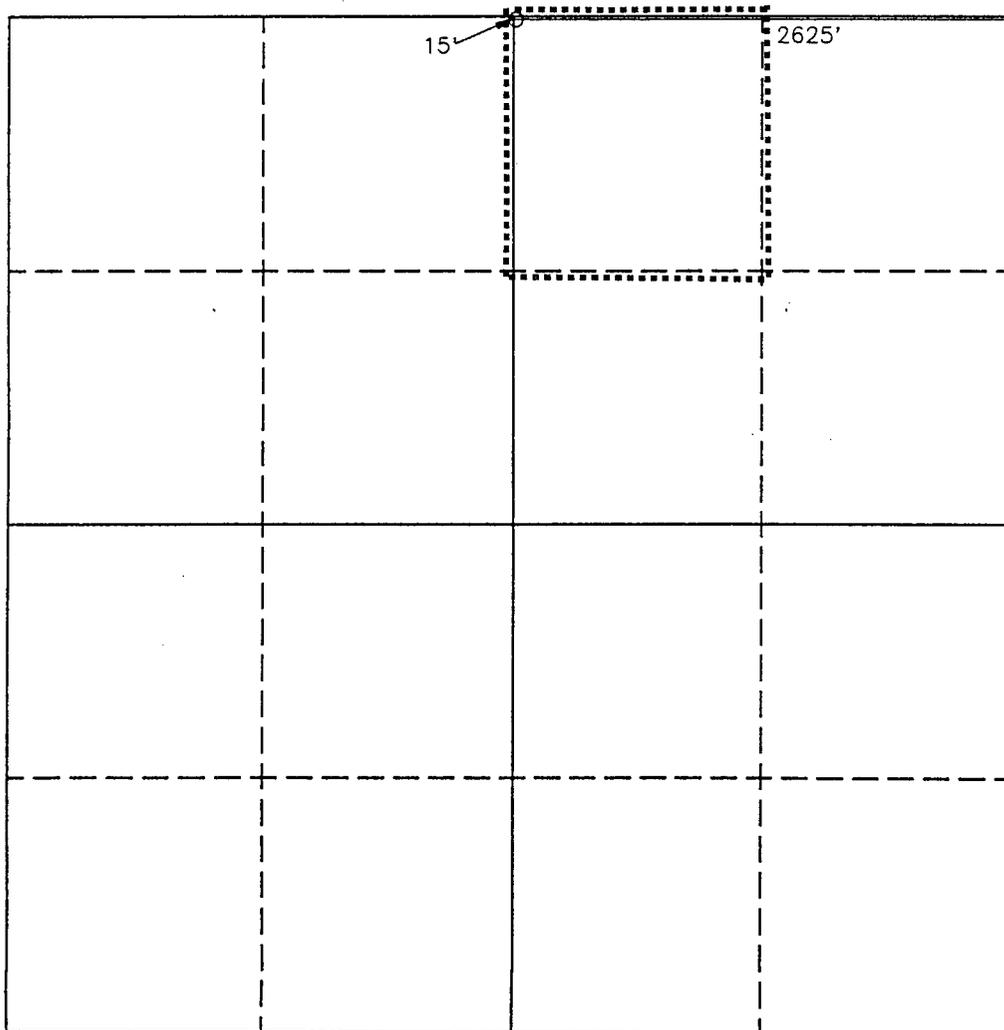
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H. E. WEST "B"		Well No. 64
Unit Letter B	Section 9	Township 17 SOUTH	Range 31 EAST NMPM	County EDDY
Actual Footage Location of Well: 15 feet from the NORTH line and 2625 feet from the EAST line				
Ground Level Elev. 3904.3	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communization, unitization, force-pooling, etc.?
 Yes No If answer is "yes" type of consolidation NA

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature

 Printed Name
 JERRY W. LONG

Position
 Permit Agent

Company
 SOCORRO PETROLEUM CO.

Date
 1/14/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
 DECEMBER 10, 1992

Signature & Seal of
 Professional Surveyor

Certificate No. JOHN W. WEST, 676
 RONALD SEDBON, 8239
 GARY L. JONES, 7977
 92-11-1879



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL DEEPEN

b. TYPE OF WELL
OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
SOCORRO PETROLEUM COMPANY
Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
P.O. Box 37
Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
15' FSL, 1335' FEL, Sec. 3, T. 17S., R. 31E. (Unit O)
At proposed prod. zone Same (SWSE)

5. LEASE DESIGNATION AND SERIAL NO.
LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
H.E. West "B" No. 65

9. AP WELL NO.

10. FIELD AND POOL, OR WILDCAT
Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 3, T. 17S., R. 31E.

12. COUNTY OR PARISH
Eddy

13. STATE
N.M.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
7.5 Air miles northeast of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1335'

16. NO. OF ACRES IN LEASE
1919.88 Ac.

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.
933'±

19. PROPOSED DEPTH
4900'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3943.1' GL

22. APPROX. DATE WORK WILL START*
As Soon As Possible

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/19/93
JERRY W. LONG

(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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

DISTRICT I

Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

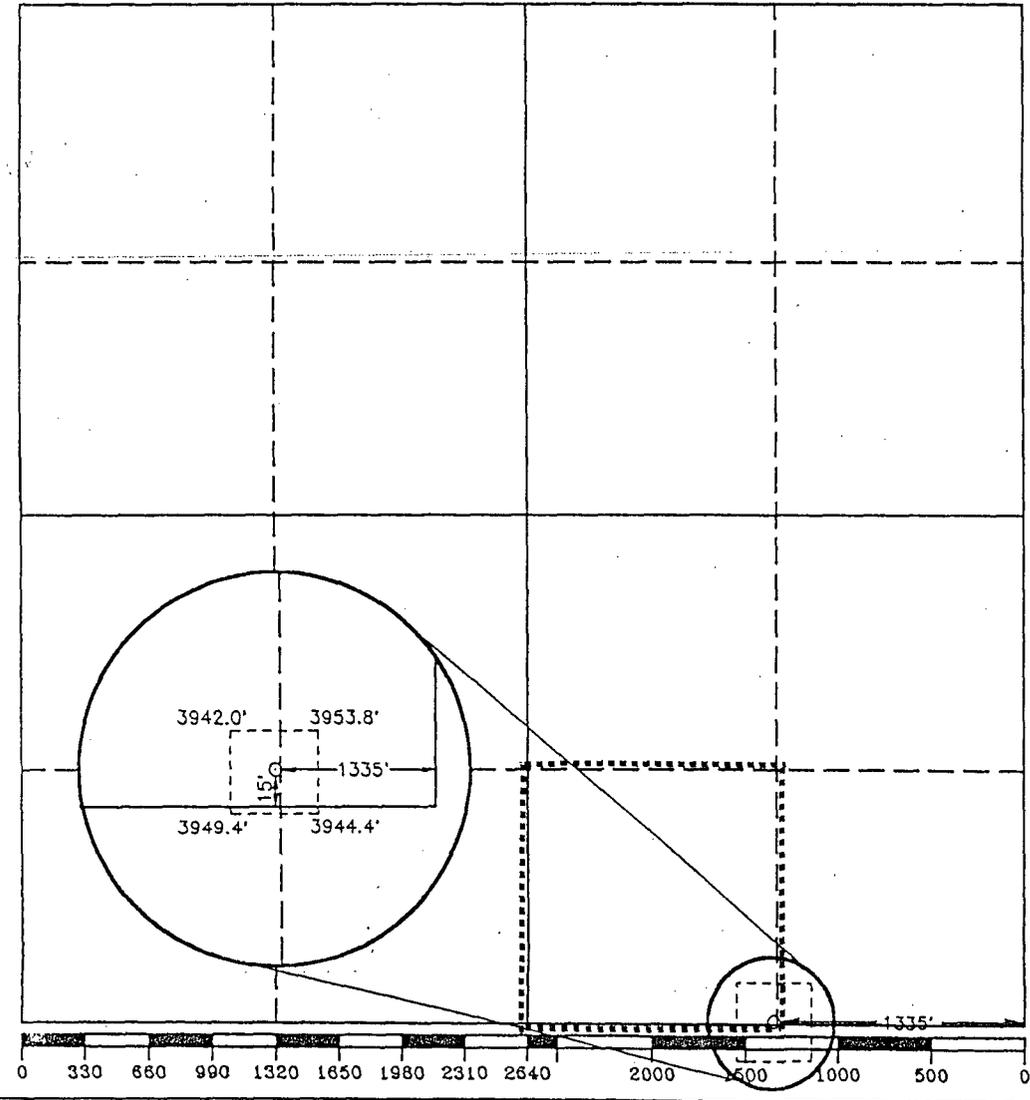
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 65
Unit Letter 0	Section 3	Township 17 SOUTH	Range 31 EAST	County EDDY	
Well Footage Location of Well: 15 feet from the SOUTH line and 1335 feet from the EAST line					
Ground Level Elev. 3943.1'	Producing Formation Grayburg-San Andres		Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
 No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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: *Jerry W. Long*
 Printed Name: **JERRY W. LONG**
 Position: **Permit Agent**
 Company: **SOCORRO PETROLEUM COMPANY**
 Date: **1/19/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **DECEMBER 31, 1992**

Signature & Seal of Professional Surveyor: *[Signature]*

Certificate No. **7977**
 JOHN W. WEST 878
 RONALD J. EIDSON 3239
 GARY L. JONES 7977

92-110-204

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL **DEEPEN**

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1230' FNL, 1435' FEL, Sec. 10, T. 17S., R. 31E. (Unit B)
 At proposed prod. zone Same (NWNE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.4 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3930.2' GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME WELL NO.
 H.E. West "B" No. 66

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 10, T. 17S., R. 31E.

12. COUNTY OR PARISH 13. STATE
 Eddy N.M.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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.

34. SIGNED Jerry W. Long TITLE Permit Agent DATE 1/19/93
 (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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

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

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

P.O. Box 2088
 Santa Fe, New Mexico 87504-2088

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

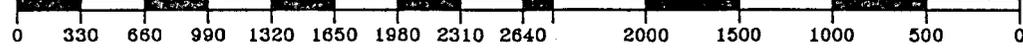
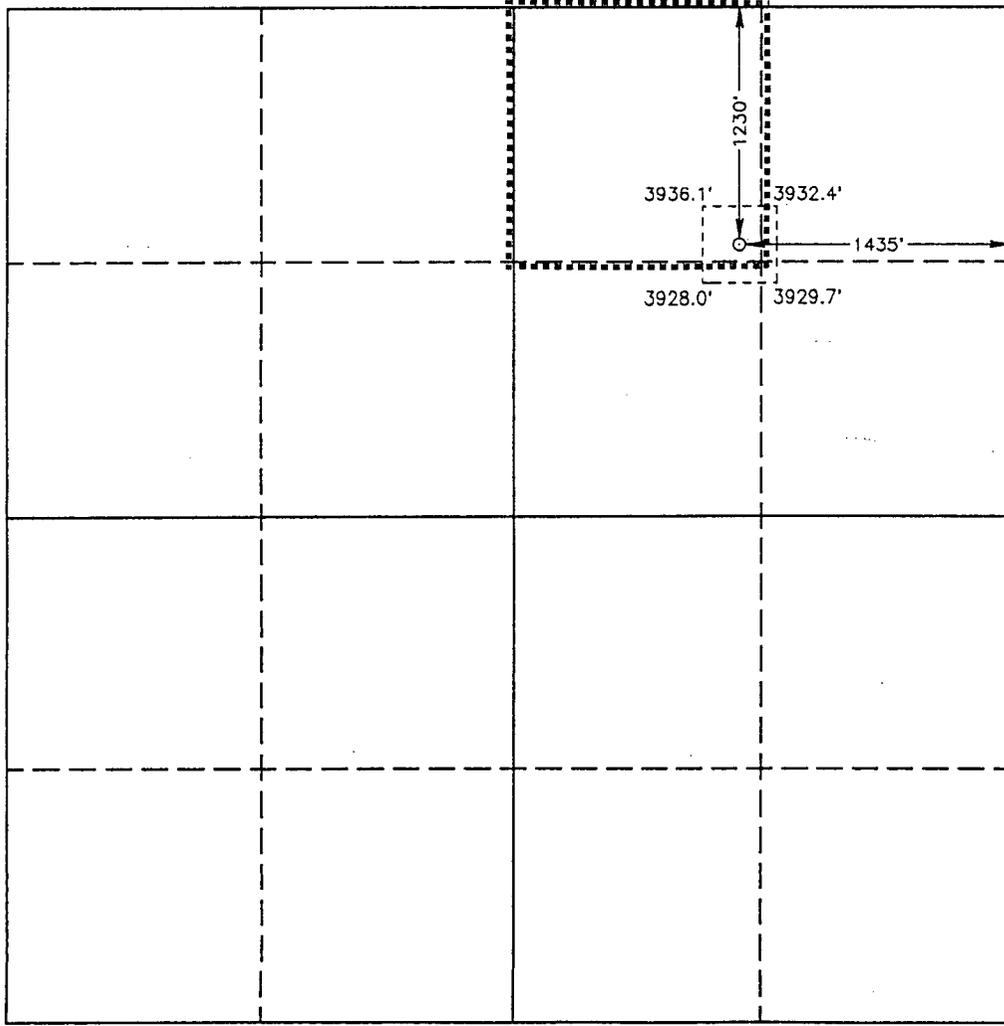
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 66
Unit Letter B	Section 10	Township 17 SOUTH	Range 31 EAST	County EDDY	
Actual Footage Location of Well: 1230 feet from the NORTH line and 1435 feet from the EAST line					
Ground Level Elev. 3930.2'	Producing Formation Grayburg-San Andres		Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
 No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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: *Jerry W. Long*
 Printed Name: **JERRY W. LONG**
 Position: **Permit Agent**
 Company: **SOCORRO PETROLEUM COMPANY**
 Date: **1/19/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 4, 1993**
 Signature & Seal of Professional Surveyor

Professional Surveyor Seal for Gary L. Jones, State of New Mexico, No. 7977. The seal includes the text 'REGISTERED SURVEYOR' and 'STATE OF NEW MEXICO'. A signature is written over the seal.

Certificate No. **7977**
JOHN W. WEST, 878
RONALD J. EIDSON, 9239
GARY L. JONES, SURVEYOR, 7977

92-110-2042



JERRY W. LONG
CONSULTANT

February 6, 1993

STATE OF NEW MEXICO
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501-2088

Re: Application for Unorthodox Oil Locations
SOCORRO PETROLEUM COMPANY
Keel-West Waterflood Project
Federal Lease LC 029426-B
Eddy County, New Mexico

Gentlemen:

You are respectfully requested to grant administrative approval under Rule 104F.(1) for unorthodox locations for infill producing wells within the Keel-West Waterflood Project, at the following locations:

- No.67 H.E. West "B" - 2625'FNL, 1335'FEL, Sec.10, T.17S., R.31E.
- No.68 H.E. West "B" - 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E.
- No.69 H.E. West "B" - 1470'FSL, 2550'FEL, Sec.10, T.17S., R.31E.
- No.70 H.E. West "B" - 1410'FSL, 1305'FWL, Sec.10, T.17S., R.31E.
- No.71 H.E. West "B" - 1335'FSL, 15'FEL, Sec. 9, T.17S., R.31E.

The above locations do not conform to Rule 104.C.I. because they are located closer than 330' to the governmental quarter-quarter section boundaries. They will be drilled to about 4900' to produce from the Grayburg-San Andres formation. The wells will be drilled at the unorthodox locations in order to prevent waste by developing an efficient production and injection pattern within the Keel-West Waterflood Project, which was approved under Order R-2268, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, Application to Drill, and a map indicating lease ownership and locations of off-set Grayburg wells. The information in this request is accurate to the best of my knowledge.

A copy of this application has been mailed to the Bureau of Land Management. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

Sincerely yours

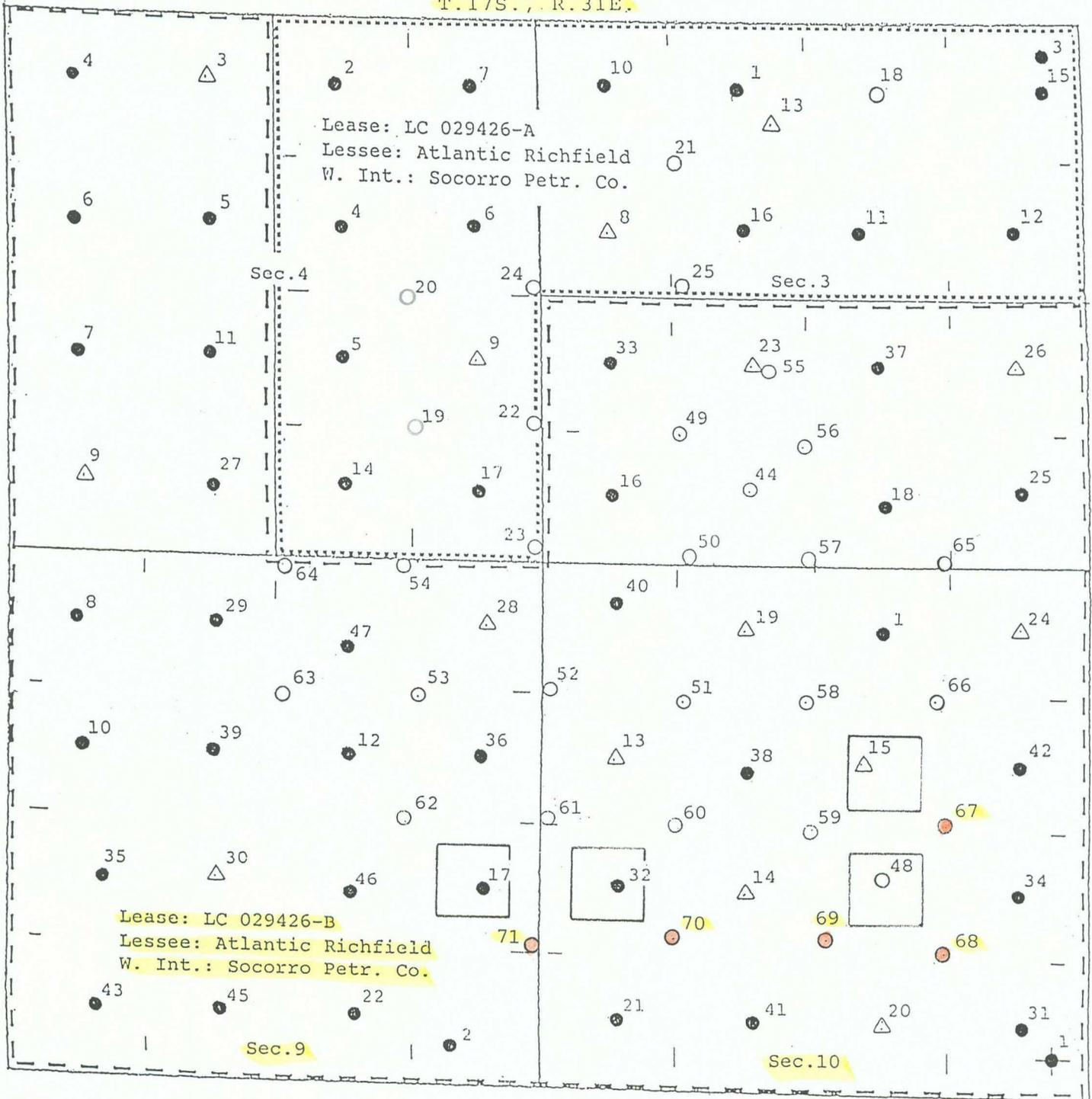
JERRY W. LONG
Permit Agent for:
SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY
410 17th Street, Ste.430
Denver, CO 80202
Attn: Mr. Keeton Barker

JWL/bl1

SOCORRO PETROLEUM COMPANY
KEEL-WEST WATERFLOOD PROJECT
Eddy County, New Mexico

T.17S., R.31E.



□ Standard Location

○ Proposed Location

OWNERSHIP MAP
(Grayburg)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 2625' FNL, 1335' FEL, Sec.10, T.17S., R.31E. (Unit G)
 At proposed prod. zone Same (SWNE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.3 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3915.3' GL

22. APPROX. DATE WORK WILL START* As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No.67

9. AMWELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec.10, T.17S., R.31E.

12. COUNTY OR PARISH 13. STATE
 Eddy N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/19/93
 (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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

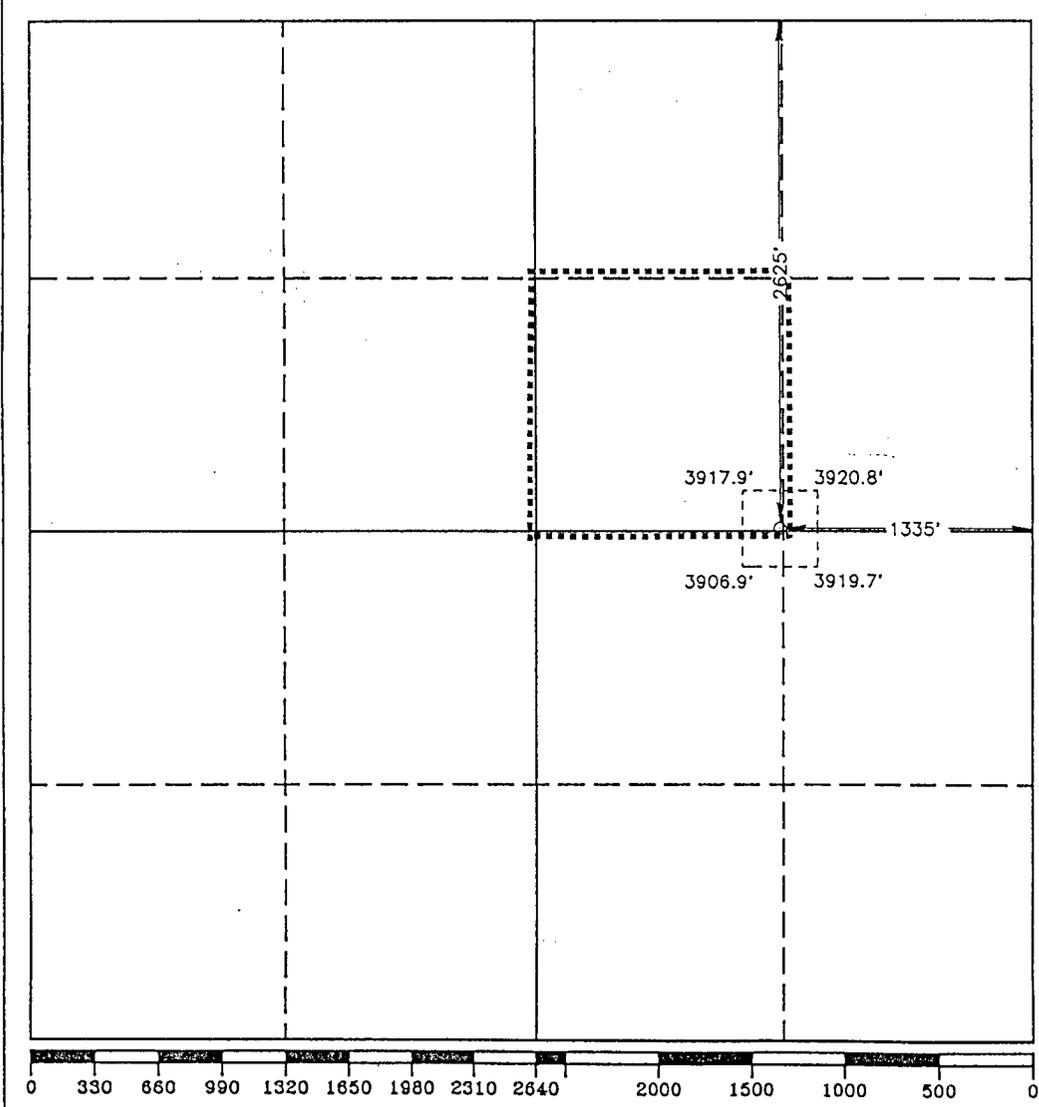
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 67
Unit Letter G	Section 10	Township 17 SOUTH	Range 31 EAST	NMPM	County EDDY
Actual Footage Location of Well: 2625 feet from the NORTH line and 1335 feet from the EAST line					
Ground Level Elev. 3915.3'	Producing Formation Grayburg-San Andres		Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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: *Jerry W. Long*
 Printed Name: **JERRY W. LONG**
 Position: **Permit Agent**
 Company: **SOCORRO PETROLEUM COMPANY**
 Date: **1/19/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 4, 1992**
 Signature & Seal of Professional Surveyor

Jerry W. Long

 Certificate No. **7977** 1878
 СОНАЛТ Я. ДИТОН, 8239
 ЖАСИП Л. БОНИТ, 7977
92-11-2043

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Ph.505-677-3223
 SOCORRO PETROLEUM COMPANY

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E. (Unit J)
 At proposed prod. zone Same (NWSE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.3 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3912.8' GL

22. APPROX. DATE WORK WILL START* As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No.68

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec.10, T.17S., R.31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/19/93
 JERRY W. LONG
 (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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

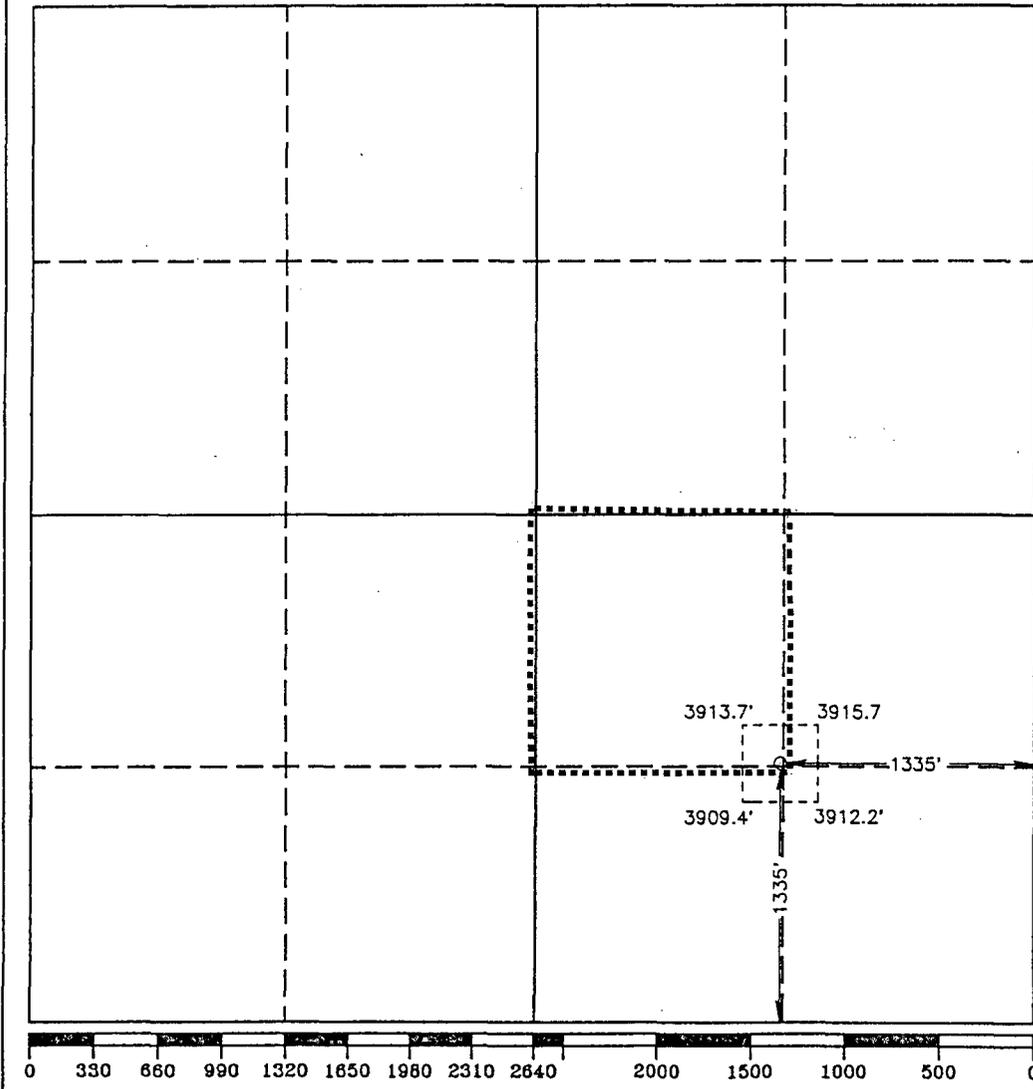
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H.E. WEST "B"		Well No. 68
Unit Letter J	Section 10	Township 17 SOUTH	Range 31 EAST NMPM	County EDDY

Actual Footage Location of Well: 1335 feet from the SOUTH line and 1335 feet from the EAST line				
Ground Level Elev. 3912.8'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation **NA**

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
 No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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: *Jerry W. Long*
 Printed Name: **JERRY W. LONG**
 Position: **Permit Agent**
 Company: **SOCORRO PETROLEUM CO.**
 Date: **1/19/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 5, 1992**
 Signature & Seal of Professional Surveyor

Professional Surveyor Seal for Gary L. Jones, State of New Mexico, No. 7977. The seal includes the text 'REGISTERED PROFESSIONAL SURVEYOR' and 'STATE OF NEW MEXICO'. Below the seal, there are fields for Certificate No. (878), State License No. (3239), and Surveyor License No. (7977).

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 1470' FSL, 2550' FEL, Sec. 10, T. 17S., R. 31E. (Unit J)
 At proposed prod. zone Same (NWSE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.0 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3911.3' GL

22. APPROX. DATE WORK WILL START* As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No. 69

9. A/R WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 10, T. 17S., R. 31E.

12. COUNTY OR PARISH | 13. STATE
 Eddy | N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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.

34. SIGNED Jerry N. Long TITLE Permit Agent DATE 1/22/93
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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 CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**

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 I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

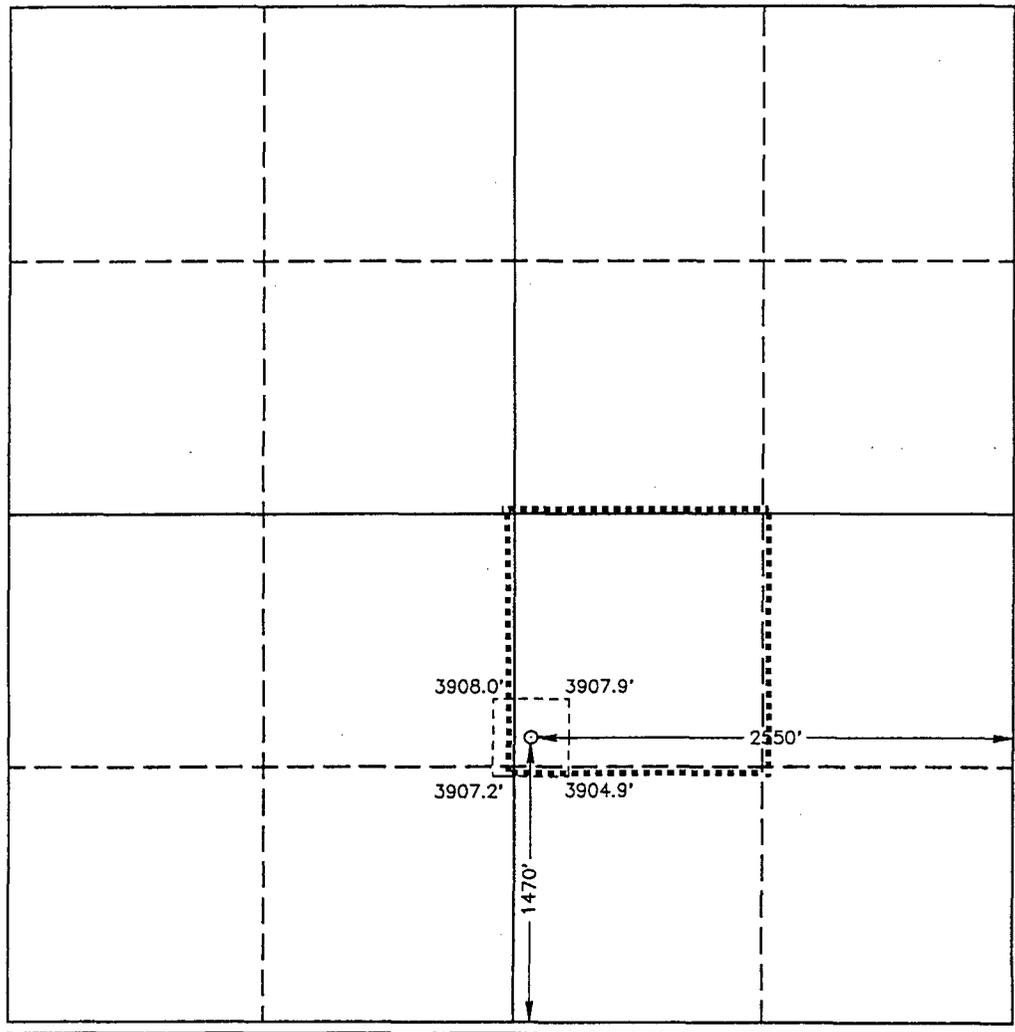
1000 Rio Brazos Rd., Artec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 69
Unit Letter J	Section 10	Township 17 SOUTH	Range 31 EAST	County NMPM EDDY	
Actual Footage Location of Well: 1470 feet from the SOUTH line and 2550 feet from the EAST line					
Ground Level Elev. 3911.3'	Producing Formation Grayburg-San Andres		Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation **NA**
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature: *Jerry W. Long*
 Printed Name: **JERRY W. LONG**
 Position: **Permit Agent**
 Company: **SOCORRO PETROLEUM CO.**
 Date: **1/22/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 5, 1992**
 Signature & Seal of Professional Surveyor

Certificate No. **7077**
РОЗН П. ЦДТУ, 878
СОНАЛ Я. ДИТОН, 7239
ЖАСП Л. РОЗН, 7977
92-11-2045

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph.505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 1410'FSL, 1305'FWL, Sec.10, T.17S., R.31E. (Unit L)
 At proposed prod. zone Same (NWSW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6.7 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3898.9' GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No.70

9. AM WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec.10, T.17S., R.31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/25/93
 (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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

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 I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

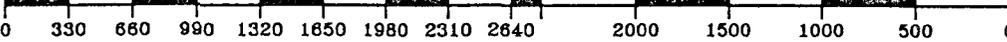
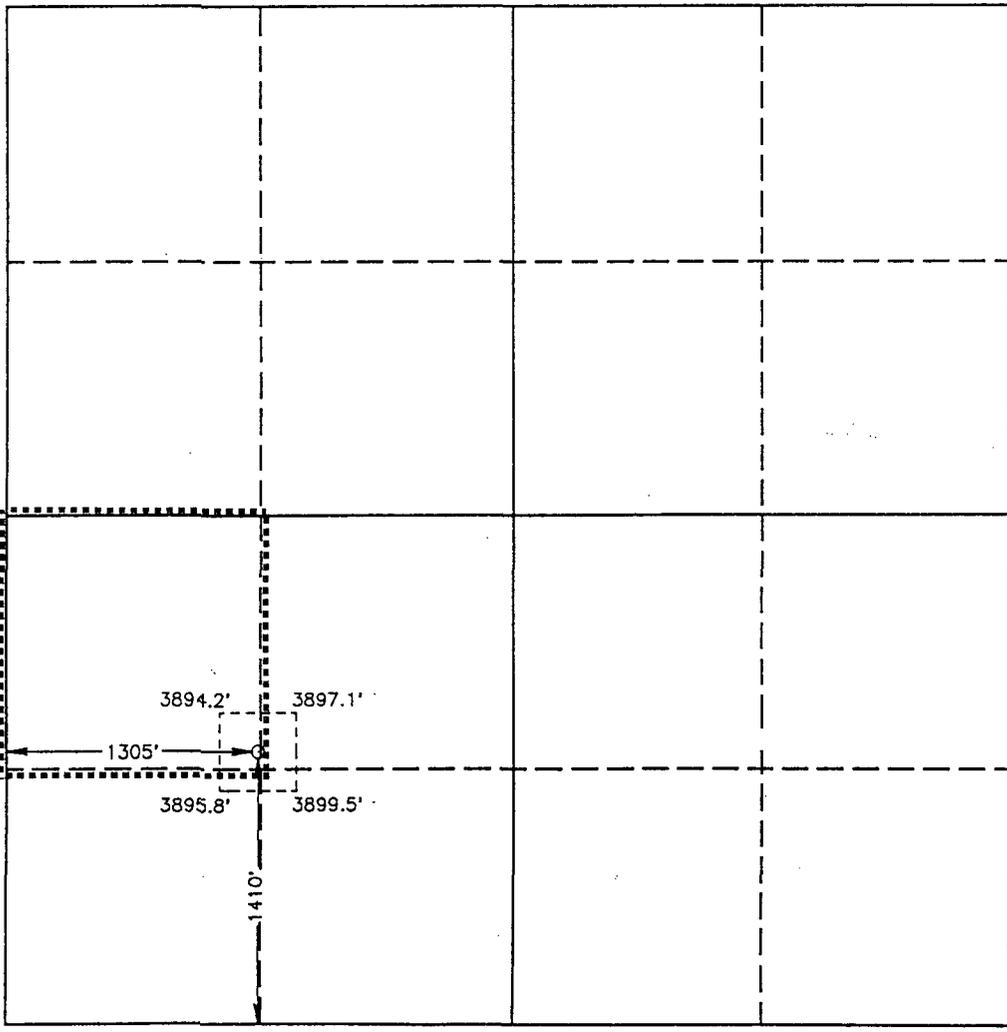
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 70
Unit Letter L	Section 10	Township 17 SOUTH	Range 31 EAST	County NMPM EDDY	
Actual Footage Location of Well: 1410 feet from the SOUTH line and 1305 feet from the WEST line					
Ground Level Elev. 3898.9'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
 No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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: *Jerry N. Long*
 Printed Name: **JERRY N. LONG**
 Position: **Permit Agent**
 Company: **SOCORRO PETROLEUM COMPANY**
 Date: **1/25/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 5, 1992**

Signature & Seal of Professional Surveyor

GARY L. JONES
 NEW MEXICO
 7977
 REGISTERED PROFESSIONAL SURVEYOR

Certificate No. **ROSE H. HUNT 878**
COHAUT H. HUNT 3239
RACHIN H. HUNT 7977

92-11-2048

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 1335' FSL, 15' FEL, Sec. 9, T. 17S., R. 31E. (Unit I)
 At proposed prod. zone Same (NESE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6.7 Air miles northeast of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3885.4' GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No. 71

9. AM WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 9, T. 17S., R. 31E.

12. COUNTY OR PARISH
 Eddy

13. STATE
 N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/26/93
 JERRY W. LONG

(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 _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**

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 I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

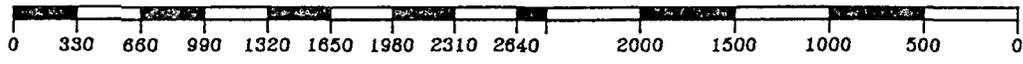
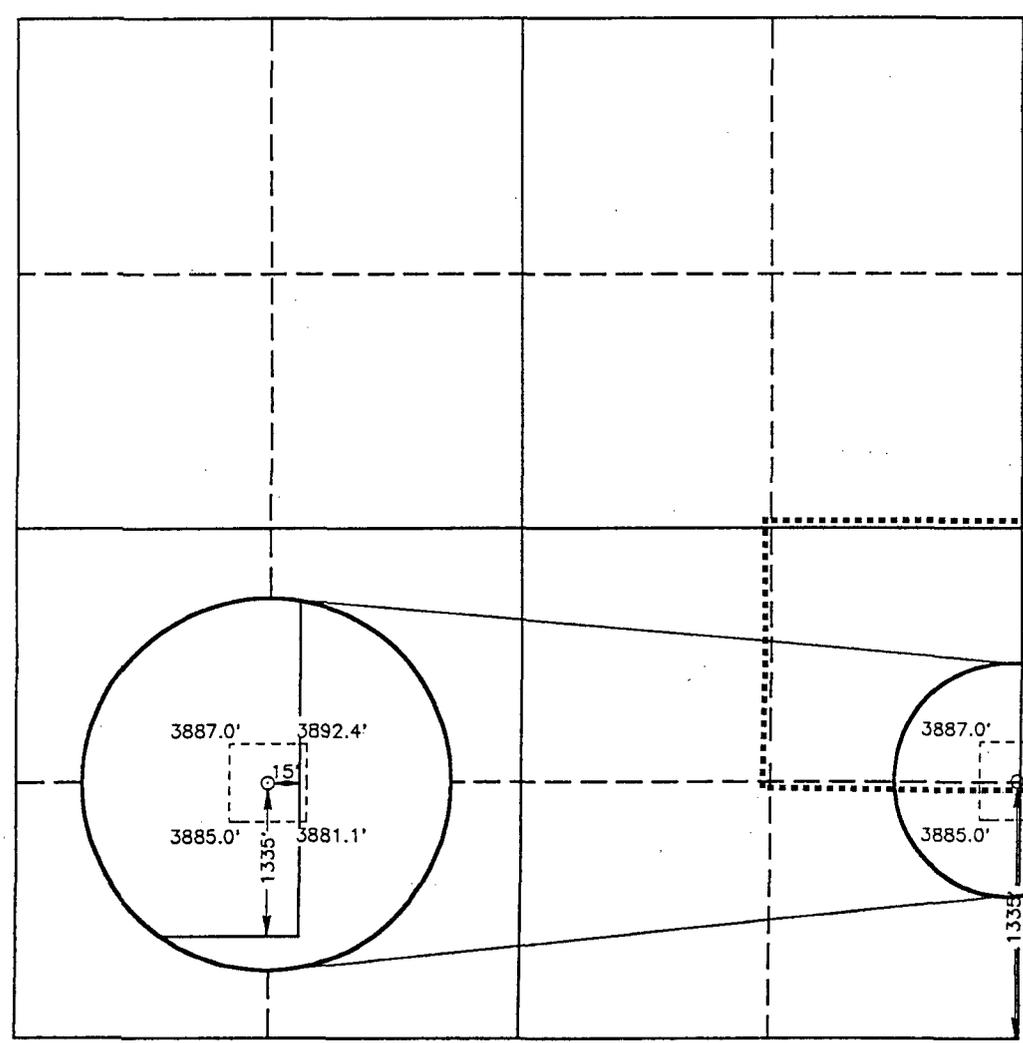
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H.E. WEST "B"		Well No. 71
Unit Letter I	Section 9	Township 17 SOUTH	Range 31 EAST	County EDDY
Actual Footage Location of Well: 1335 feet from the SOUTH line and 15 feet from the EAST line				
Ground Level Elev. 3885.4'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Long

Printed Name
JERRY W. LONG

Position
Permit Agent

Company
SOCORRO PETROLEUM CO.

Date
1/26/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JANUARY 5, 1992

Signature & Seal of Professional Surveyor
[Signature]

Certificate No. **7977**

РОЗН П. ЦДТУ? 1878
СОСТАВ И. ДИТОН 3239
КАСНИ П. РОБИ 7977

92-14-2047



JERRY W. LONG
CONSULTANT

February 6, 1993

STATE OF NEW MEXICO
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501-2088

Re: Application for Unorthodox Oil Locations
SOCORRO PETROLEUM COMPANY
Keel-West Waterflood Project
Federal Lease LC 029426-B
Eddy County, New Mexico

Gentlemen:

You are respectfully requested to grant administrative approval under Rule 104F.(1) for unorthodox locations for infill producing wells within the Keel-West Waterflood Project, at the following locations:

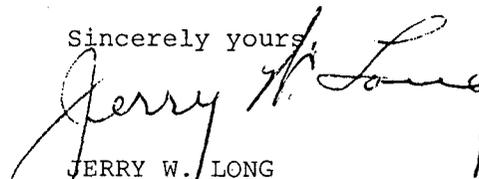
- No.67 H.E. West "B" - 2625'FNL, 1335'FEL, Sec.10, T.17S., R.31E.
- No.68 H.E. West "B" - 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E.
- No.69 H.E. West "B" - 1470'FSL, 2550'FEL, Sec.10, T.17S., R.31E.
- No.70 H.E. West "B" - 1410'FSL, 1305'FWL, Sec.10, T.17S., R.31E.
- No.71 H.E. West "B" - 1335'FSL, 15'FEL, Sec. 9, T.17S., R.31E.

The above locations do not conform to Rule 104.C.I. because they are located closer than 330' to the governmental quarter-quarter section boundaries. They will be drilled to about 4900' to produce from the Grayburg-San Andres formation. The wells will be drilled at the unorthodox locations in order to prevent waste by developing an efficient production and injection pattern within the Keel-West Waterflood Project, which was approved under Order R-2268, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, Application to Drill, and a map indicating lease ownership and locations of off-set Grayburg wells. The information in this request is accurate to the best of my knowledge.

A copy of this application has been mailed to the Bureau of Land Management. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

Sincerely yours,



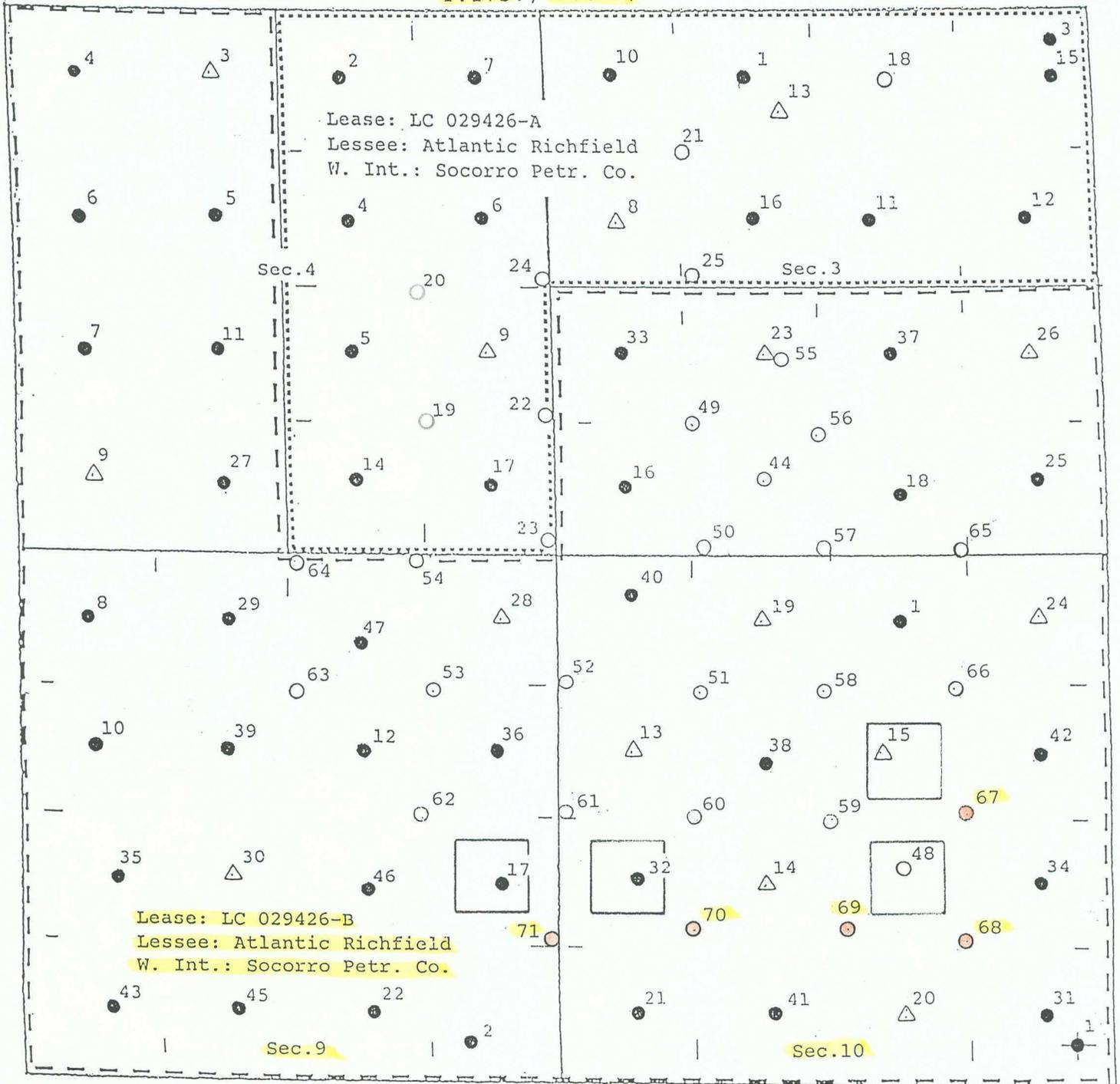
JERRY W. LONG
Permit Agent for:
SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY
410 17th Street, Ste.430
Denver, CO 80202
Attn: Mr. Keeton Barker

JWL/bll

SOCORRO PETROLEUM COMPANY
 KEEL-WEST WATERFLOOD PROJECT
 Eddy County, New Mexico

T.17S., R.31E.



Standard Location



Proposed Location

OWNERSHIP MAP

(Grayburg)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 2625'FNL, 1335'FEL, Sec.10, T.17S., R.31E. (Unit G)
 At proposed prod. zone Same (SWNE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.3 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3915.3' GL

22. APPROX. DATE WORK WILL START* As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No.67

9. AP WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec.10, T.17S., R.31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

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24. SIGNED Jerry W. Long TITLE Permit Agent DATE 1/19/93
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

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 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 I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

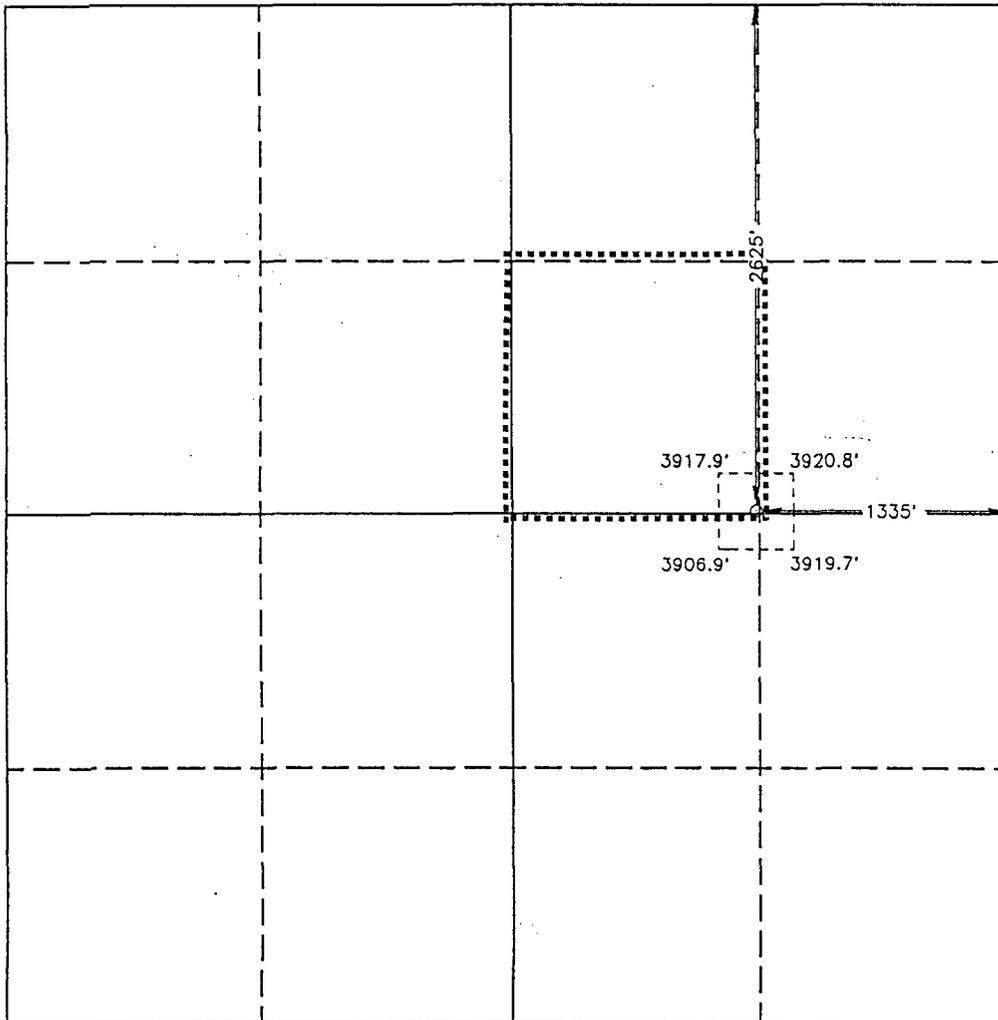
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H.E. WEST "B"		Well No. 67
Unit Letter G	Section 10	Township 17 SOUTH	Range 31 EAST	County EDDY
Actual Footage Location of Well: 2625 feet from the NORTH line and 1335 feet from the EAST line				
Ground Level Elev. 3915.3'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
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 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Long
 Printed Name
JERRY W. LONG
 Position
Permit Agent
 Company
SOCORRO PETROLEUM COMPANY
 Date
1/19/93

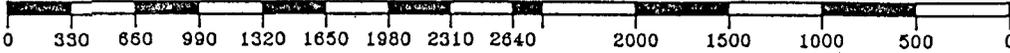
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JANUARY 4, 1992
 Signature & Seal of
 Professional Surveyor

James R. [Signature]

Certificate No. **7877** 878
СОСТАВ Я. ДИТОН. 8230
КАЧИН П. КОХАН. 7977
92-11-2043



**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC 029426-B	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER IN-FILL WELL SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
2. NAME OF OPERATOR SOCORRO PETROLEUM COMPANY			7. UNIT AGREEMENT NAME Keel-West Waterflood Project	
3. ADDRESS AND TELEPHONE NO. P.O. Box 37 Loco Hills, New Mexico 88255			8. FARM OR LEASE NAME WELL NO. H.E. West "B" No.68	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E. (Unit J) At proposed prod. zone Same (NWSE)			9. AM WELL NO.	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7.3 Air miles northeast of Loco Hills, New Mexico			10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool	
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'		16. NO. OF ACRES IN LEASE 1919.88 Ac.	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. 933'±		19. PROPOSED DEPTH 4900'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3912.8' GL			22. APPROX. DATE WORK WILL START* As Soon As Possible	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

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24. SIGNED Jerry W. Long TITLE Permit Agent DATE 1/19/93
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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 CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____ DATE _____

***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.

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

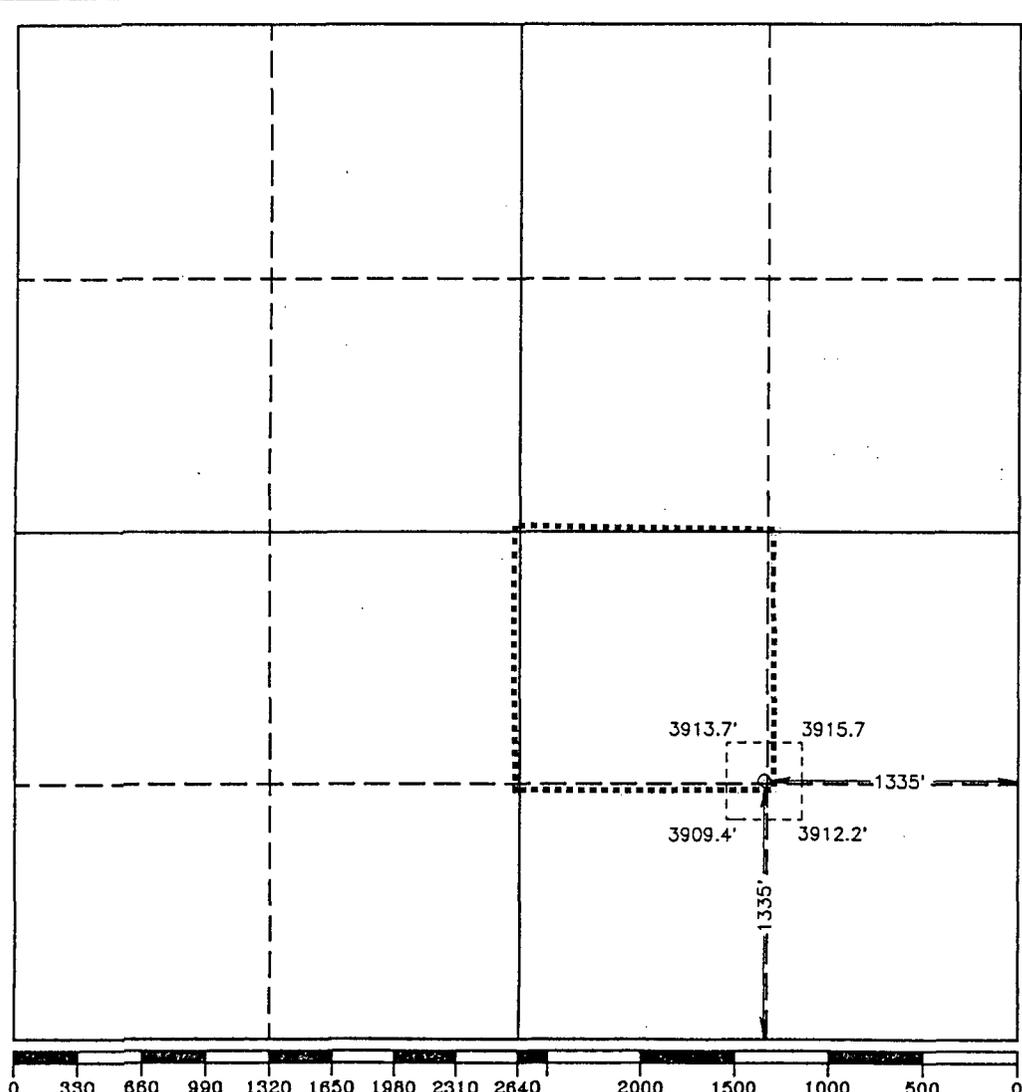
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 68
Unit Letter J	Section 10	Township 17 SOUTH	Range 31 EAST	County NMPM EDDY	
Actual Footage Location of Well: 1335 feet from the SOUTH line and 1335 feet from the EAST line					
Ground Level Elev. 3912.8'	Producing Formation Grayburg-San Andres		Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation **NA**

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature: *Jerry W. Long*
 Printed Name: **JERRY W. LONG**
 Position: **Permit Agent**
 Company: **SOCORRO PETROLEUM CO.**
 Date: **1/19/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 5, 1992**
 Signature & Seal of Professional Surveyor:

 Certificate No. **ROSE H. LITTE 878**
CONRAD H. DUTTON 3239
KACHIL J. BOHRT 7977
 92 JAN 19 2044

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC 029426-B	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER IN-FILL WELL <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
2. NAME OF OPERATOR SOCORRO PETROLEUM COMPANY		7. UNIT AGREEMENT NAME Keel-West Waterflood Project	
3. ADDRESS AND TELEPHONE NO. P.O. Box 37 Loco Hills, New Mexico 88255		8. FARM OR LEASE NAME, WELL NO. H.E. West "B" No.69	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1470' FSL, 2550' FEL, Sec.10, T.17S., R.31E. (Unit J) At proposed prod. zone Same (NWSE)		9. API WELL NO.	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7.0 Air miles northeast of Loco Hills, New Mexico		10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool	
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any). 1335'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec.10, T.17S., R.31E.	
16. NO. OF ACRES IN LEASE 1919.88 Ac.		12. COUNTY OR PARISH 13. STATE Eddy N.M.	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933'±		17. NO. OF ACRES ASSIGNED TO THIS WELL 40	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3911.3' GL		20. ROTARY OR CABLE TOOLS Rotary	
23. PROPOSED CASING AND CEMENTING PROGRAM		22. APPROX. DATE WORK WILL START* As Soon As Possible	

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/22/93
(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 _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

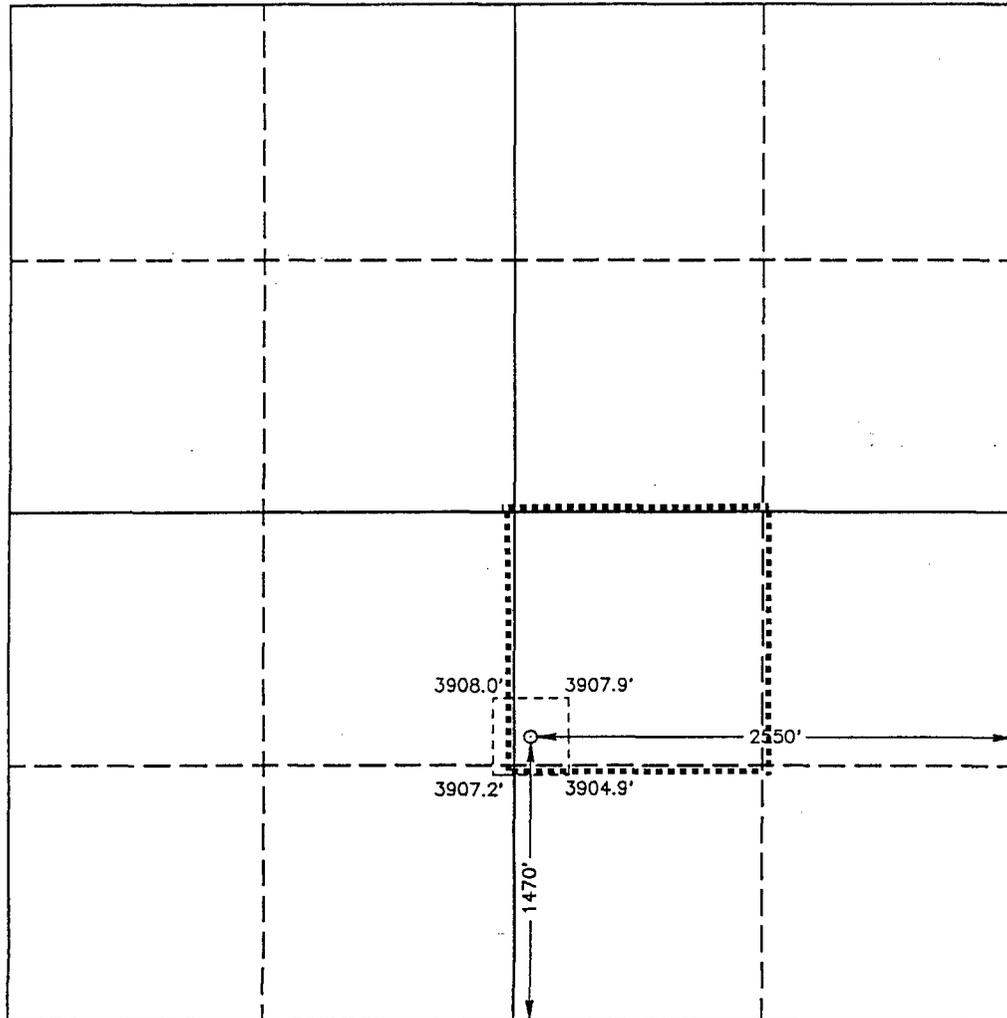
1000 Rio Brazos Rd., Artec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 69
Unit Letter J	Section 10	Township 17 SOUTH	Range 31 EAST	County NMPM	EDDY
Actual Footage Location of Well: 1470 feet from the SOUTH line and 2550 feet from the EAST line					
Ground Level Elev. 3911.3'	Producing Formation Grayburg-San Andres		Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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: *Jerry W. Long*
Printed Name: **JERRY W. LONG**
Position: **Permit Agent**
Company: **SOCORRO PETROLEUM CO.**
Date: **1/22/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 5, 1992**

Signature & Seal of Professional Surveyor

[Signature]

Certificate No. **7977**
РОЗН Ц ЦДТУ 78
СОСТАВ В ДИТОЕ 9239
ЖАСН Л РОЗДТ 7977

92-11-2045

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface: 1410'FSL, 1305'FWL, Sec.10, T.17S., R.31E. (Unit L)
 At proposed prod. zone: Same (NWSW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6.7 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3898.9' GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No.70

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
 Sec.10, T.17S., R.31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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.

34. SIGNED Jerry H. Long TITLE Permit Agent DATE 1/25/93
 (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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

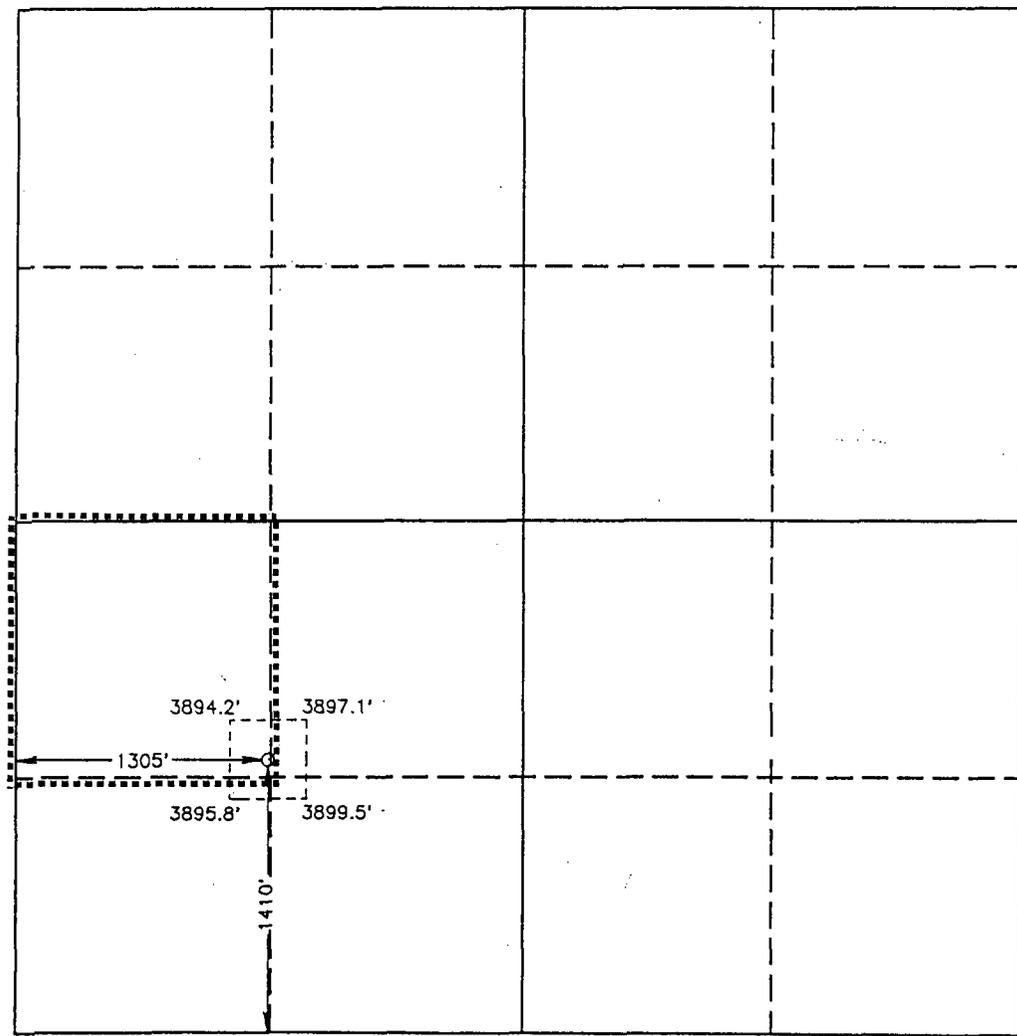
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 70
Unit Letter L	Section 10	Township 17 SOUTH	Range 31 EAST	County EDDY	
Actual Footage Location of Well: 1410 feet from the SOUTH line and 1305 feet from the WEST line					
Ground Level Elev. 3898.9'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation **NA**
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Long
Printed Name
JERRY W. LONG
Position
Permit Agent
Company
SOCORRO PETROLEUM COMPANY
Date
1/25/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JANUARY 5, 1992
Signature & Seal of
Professional Surveyor

Gary L. Jones
GARY L. JONES
NEW MEXICO
7977
CERTIFIED PROFESSIONAL SURVEYOR
Certificate No. ROSE L. CULTY 876
COHALE E. BRITTON 3239
KACIE B. MOHRT 7977
92-1-2046

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph.505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 1335'FSL, 15'FEL, Sec.9, T.17S., R.31E. (Unit I)
 At proposed prod. zone Same (NESE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6.7 Air miles northeast of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3885.4' GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTED OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME WELL NO.
 H.E. West "B" No.71

9. AP WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec.9, T.17S., R.31E.

12. COUNTY OR PARISH | 13. STATE
 Eddy | N.M.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASINO	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/26/93
 (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 _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

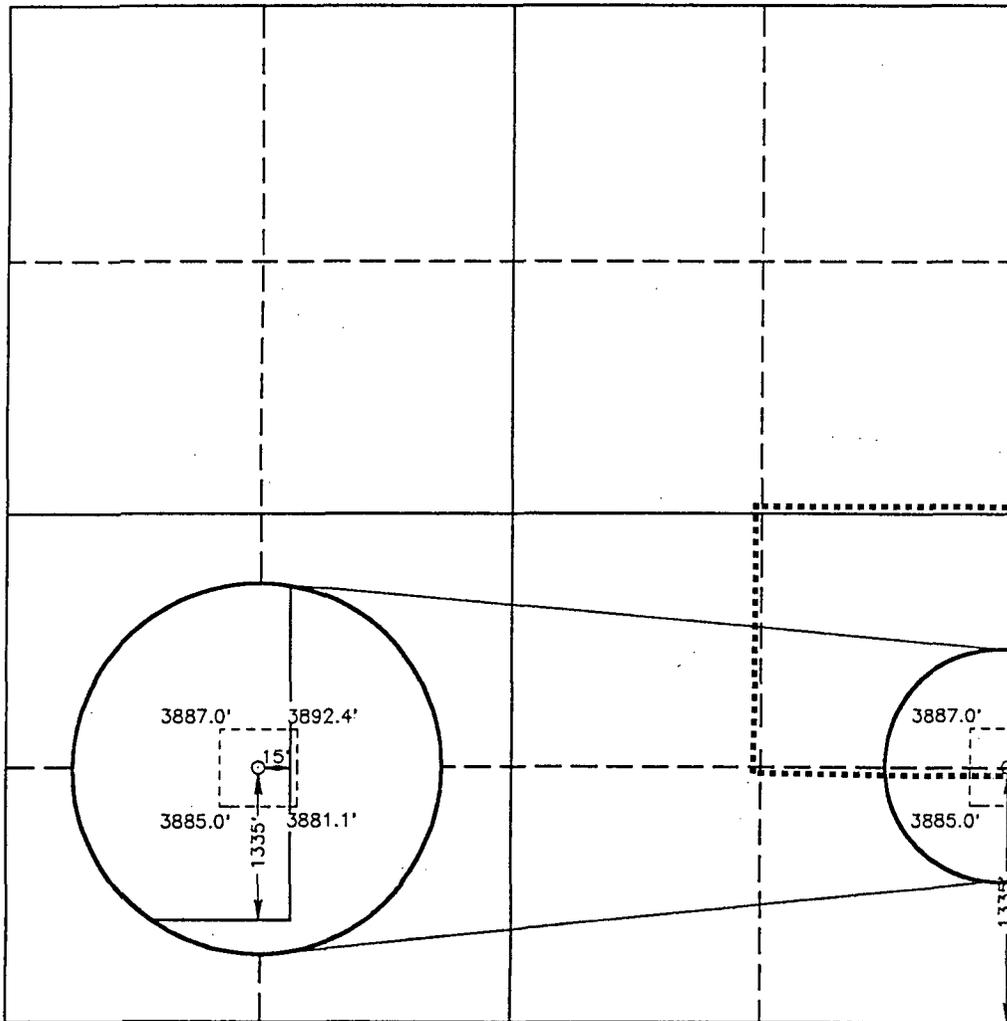
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H.E. WEST "B"		Well No. 71
Unit Letter I	Section 9	Township 17 SOUTH	Range 31 EAST	County NMPM
Actual Footage Location of Well: 1335 feet from the SOUTH line and 15 feet from the EAST line				
Ground Level Elev. 3885.4'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation **NA**

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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
Jerry W. Long

Printed Name
JERRY W. LONG

Position
Permit Agent

Company
SOCORRO PETROLEUM CO.

Date
1/26/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JANUARY 5, 1992

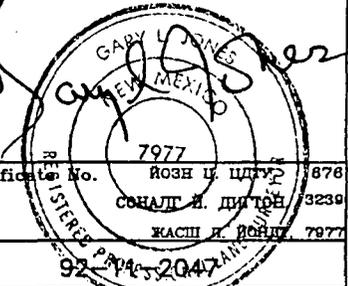
Signature & Seal of Professional Surveyor

Certificate No. **7977**

7977

7977

7977





JERRY W. LONG
CONSULTANT

February 6, 1993

STATE OF NEW MEXICO
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501-2088

Re: Application for Unorthodox Oil Locations
SOCORRO PETROLEUM COMPANY
Keel-West Waterflood Project
Federal Lease LC 029426-B
Eddy County, New Mexico

Gentlemen:

You are respectfully requested to grant administrative approval under Rule 104F.(1) for unorthodox locations for infill producing wells within the Keel-West Waterflood Project, at the following locations:

- No.67 H.E. West "B" - 2625'FNL, 1335'FEL, Sec.10, T.17S., R.31E.
- No.68 H.E. West "B" - 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E.
- No.69 H.E. West "B" - 1470'FSL, 2550'FEL, Sec.10, T.17S., R.31E.
- No.70 H.E. West "B" - 1410'FSL, 1305'FWL, Sec.10, T.17S., R.31E.
- No.71 H.E. West "B" - 1335'FSL, 15'FEL, Sec. 9, T.17S., R.31E.

The above locations do not conform to Rule 104.C.I. because they are located closer than 330' to the governmental quarter-quarter section boundaries. They will be drilled to about 4900' to produce from the Grayburg-San Andres formation. The wells will be drilled at the unorthodox locations in order to prevent waste by developing an efficient production and injection pattern within the Keel-West Waterflood Project, which was approved under Order R-2268, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, Application to Drill, and a map indicating lease ownership and locations of off-set Grayburg wells. The information in this request is accurate to the best of my knowledge.

A copy of this application has been mailed to the Bureau of Land Management. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

Sincerely yours,

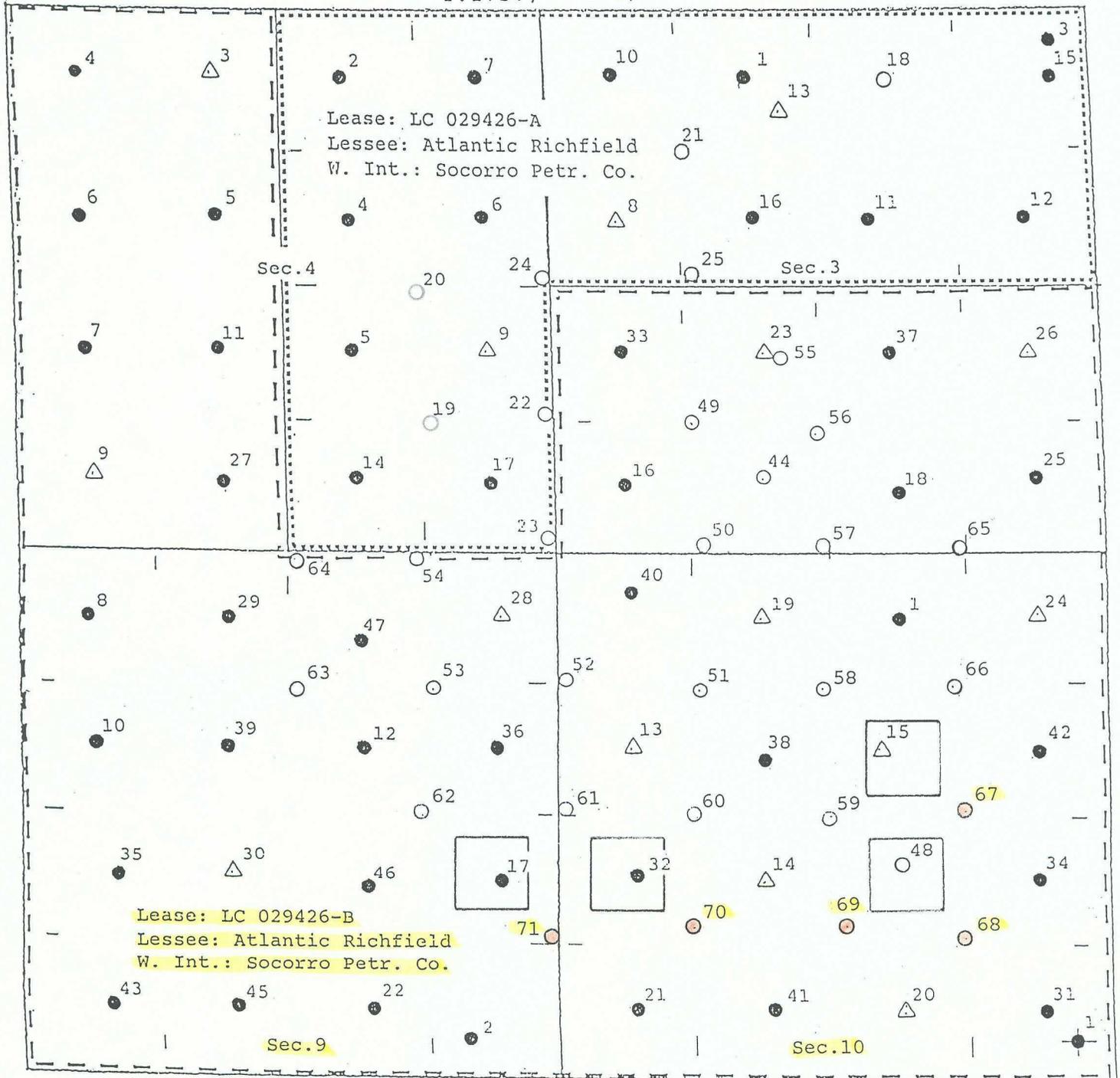
JERRY W. LONG
Permit Agent for:
SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY
410 17th Street, Ste.430
Denver, CO 80202
Attn: Mr. Keeton Barker

JWL/bl1

SOCORRO PETROLEUM COMPANY
KEEL-WEST WATERFLOOD PROJECT
Eddy County, New Mexico

T.17S., R.31E.



□ Standard Location

○ Proposed Location

OWNERSHIP MAP
(Grayburg)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. LC 029426-B	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER IN-FILL WELL <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
2. NAME OF OPERATOR SOCORRO PETROLEUM COMPANY			7. UNIT AGREEMENT NAME Keel-West Waterflood Project	
3. ADDRESS AND TELEPHONE NO. P.O. Box 37 Loco Hills, New Mexico 88255			8. FARM OR LEASE NAME WELL NO. H.E. West "B" No.67	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 2625'FNL, 1335'FEL, Sec.10, T.17S., R.31E. (Unit G) At proposed prod. zone Same (SWNE)			9. AM WELL NO.	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7.3 Air miles northeast of Loco Hills, New Mexico			10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool	
10. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec.10, T.17S., R.31E.	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933'±			12. COUNTY OR PARISH Eddy	
16. NO. OF ACRES IN LEASE 1919.88 Ac.			13. STATE N.M.	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3915.3' GL			22. APPROX. DATE WORK WILL START* As Soon As Possible	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/19/93
(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 _____ TITLE _____ DATE _____

***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.

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

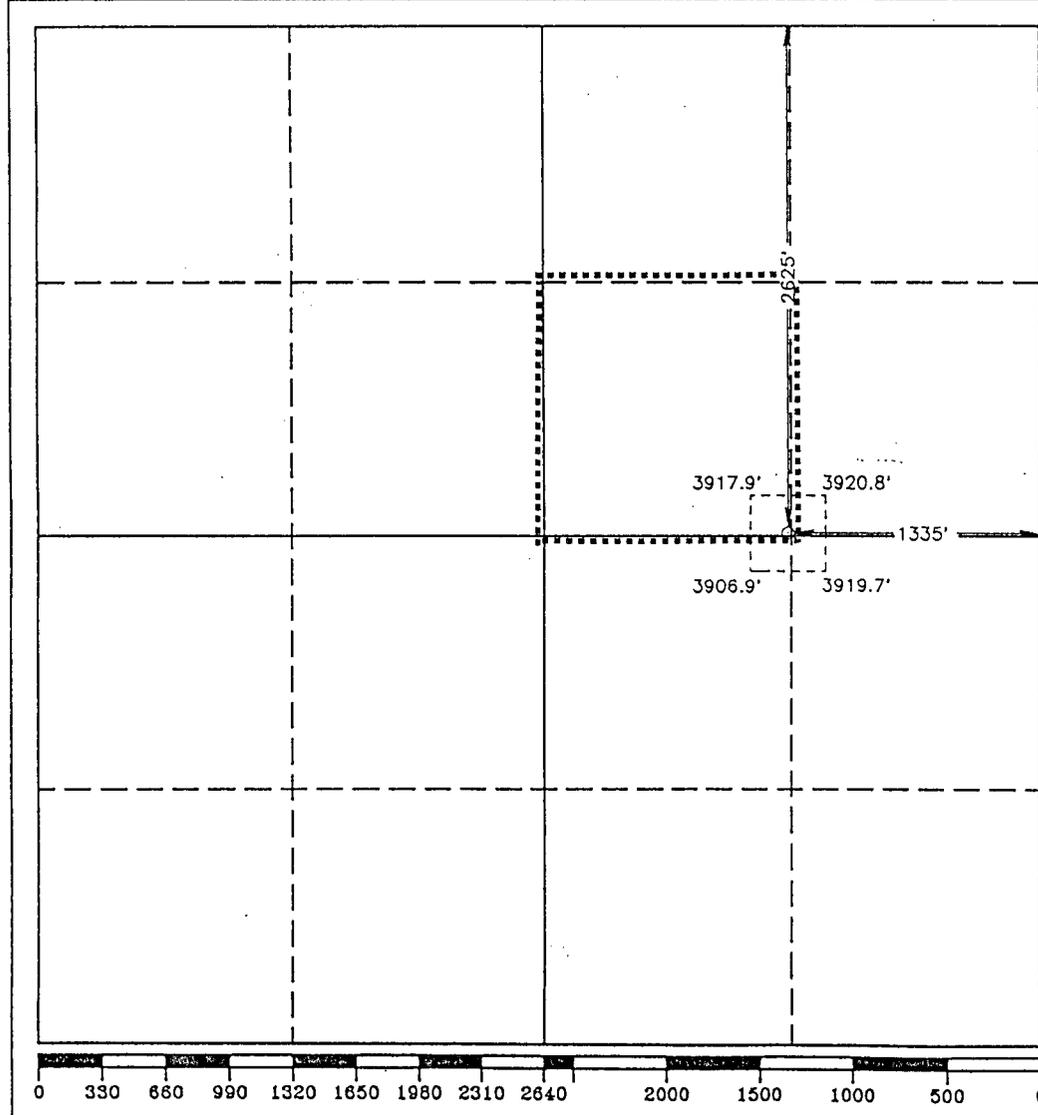
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 67
Unit Letter G	Section 10	Township 17 SOUTH	Range 31 EAST	NMPM	County EDDY
Actual Footage Location of Well: 2625 feet from the NORTH line and 1335 feet from the EAST line					
Ground Level Elev. 3915.3'	Producing Formation Grayburg-San Andres		Pool Grayburg-Jackson Pool		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
- No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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: *Jerry W. Long*
 Printed Name: **JERRY W. LONG**
 Position: **Permit Agent**
 Company: **SOCORRO PETROLEUM COMPANY**
 Date: **1/19/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 4, 1992**
 Signature & Seal of Professional Surveyor:

James R. Jones

 Certificate No. **7977** 1878
СОМАЛТ Я. ДИТОН 8239
КАСИН Л. КОБИН 7977
92-11-2043

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY Ph.505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E. (Unit J)
 At proposed prod. zone Same (NWSE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 7.3 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

13. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3912.8' GL

22. APPROX. DATE WORK WILL START* As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME, WELL NO.
 H.E. West "B" No.68

9. AP WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec.10, T.17S., R.31E.

12. COUNTY OR PARISH | 13. STATE
 Eddy | N.M.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/19/93
 JERRY W. LONG

(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 _____ TITLE _____ DATE _____

***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.

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 68
Unit Letter J	Section 10	Township 17 SOUTH	Range 31 EAST	County NMPM EDDY	

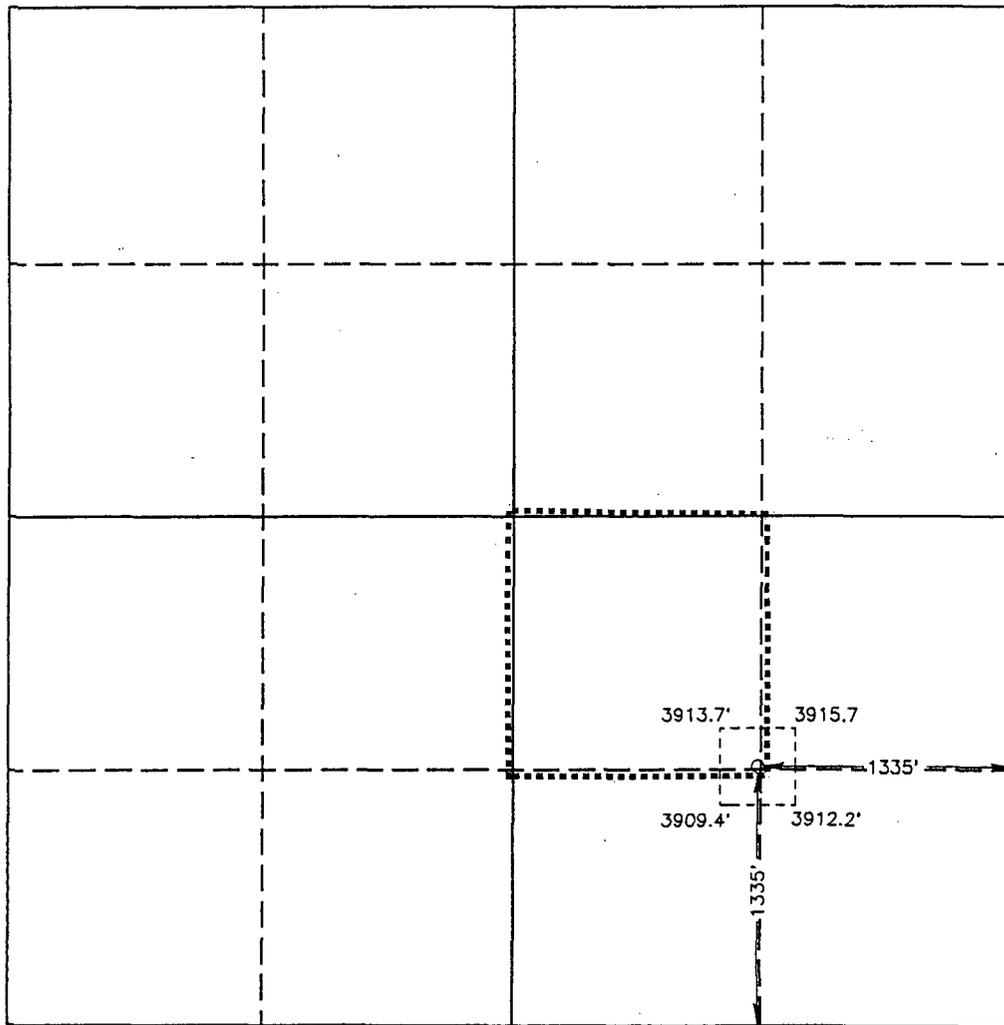
Actual Footage Location of Well:
1335 feet from the **SOUTH** line and **1335** feet from the **EAST** line

Ground Level Elev. 3912.8'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres
--------------------------------------	---	--------------------------------------	---------------------------------------

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation **NA**

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)

No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Long
Printed Name
JERRY W. LONG

Position
Permit Agent
Company
SOCORRO PETROLEUM CO.

Date
1/19/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JANUARY 5, 1992

Signature & Seal of Professional Surveyor

Certificate No. **ROSE H. DUFF 876**
COLEMAN B. HANCOCK 3239
KACIE L. HOGUE 7977

92-115-2042

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC 029426-B
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER IN-FILL WELL SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---
2. NAME OF OPERATOR SOCORRO PETROLEUM COMPANY		7. UNIT AGREEMENT NAME Keel-West Waterflood Project
3. ADDRESS AND TELEPHONE NO. P.O. Box 37 Loco Hills, New Mexico 88255		8. FARM OR LEASE NAME, WELL NO. H.E. West "B" No.69
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1470'FSL, 2550'FEL, Sec.10, T.17S., R.31E. (Unit J) At proposed prod. zone Same (NWSE)		9. API WELL NO.
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 7.0 Air miles northeast of Loco Hills, New Mexico		10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any). 1335'	16. NO. OF ACRES IN LEASE 1919.88 Ac.	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec.10, T.17S., R.31E.
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933'±	19. PROPOSED DEPTH 4900'	12. COUNTY OR PARISH 13. STATE Eddy N.M.
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3911.3' GL		17. NO. OF ACRES ASSIGNED TO THIS WELL 40
23. PROPOSED CASING AND CEMENTING PROGRAM		20. ROTARY OR CABLE TOOLS Rotary
22. APPROX. DATE WORK WILL START* As Soon As Possible		

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/22/93
JERRY W. LONG
(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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

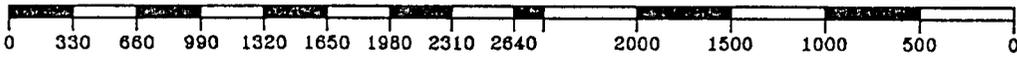
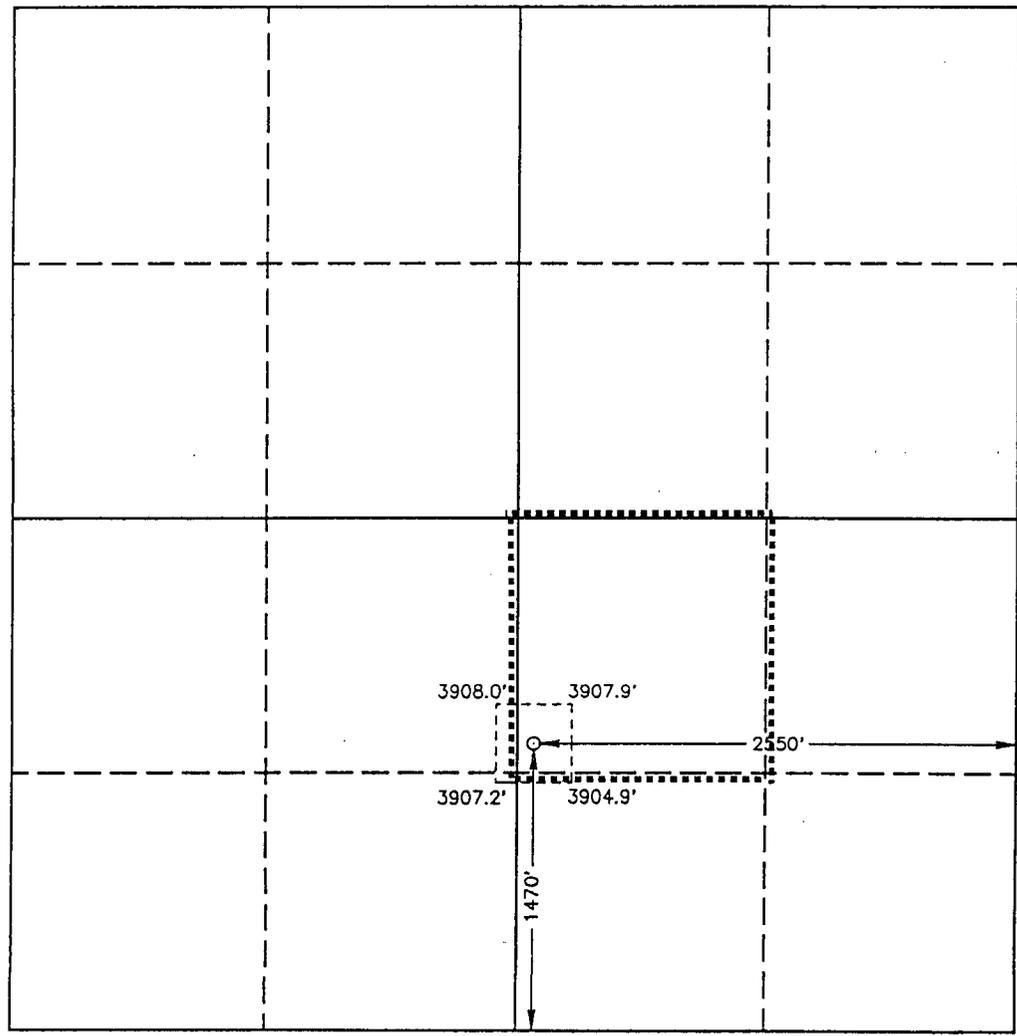
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY		Lease H.E. WEST "B"		Well No. 69
Unit Letter J	Section 10	Township 17 SOUTH	Range 31 EAST NMPM	County EDDY
Actual Footage Location of Well: 1470 feet from the SOUTH line and 2550 feet from the EAST line				
Ground Level Elev. 3911.3'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
- 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 If answer is "yes" type of consolidation NA

If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, 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 is true and complete to the best of my knowledge and belief.

Signature: *Jerry W. Long*
Printed Name: **JERRY W. LONG**
Position: **Permit Agent**
Company: **SOCORRO PETROLEUM CO.**
Date: **1/22/93**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: **JANUARY 5, 1992**
Signature & Seal of Professional Surveyor:

Certificate No. **7077**
Professional Surveyor: **ROSE H. CUDY, R**
СОНАЛИ Я. ДИГТОН
КАШИ Л. РОББИ
92-1A-2045

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 SOCORRO PETROLEUM COMPANY
 Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
 P.O. Box 37
 Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1410' FSL, 1305' FWL, Sec. 10, T. 17S., R. 31E. (Unit L)
 At proposed prod. zone Same (NWSW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6.7 Air miles northeast of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3898.9' GL

22. APPROX. DATE WORK WILL START*
 As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
 LC 029426-B

6. IF INDIAN, ALLOTTED OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Keel-West Waterflood Project

8. FARM OR LEASE NAME WELL NO.
 H.E. West "B" No. 70

9. AP WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 10, T. 17S., R. 31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

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 Jerry W. Long TITLE Permit Agent DATE 1/25/93
 (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 _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

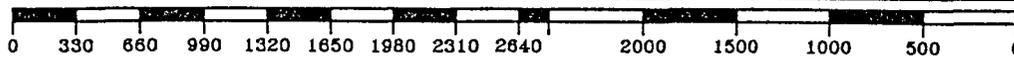
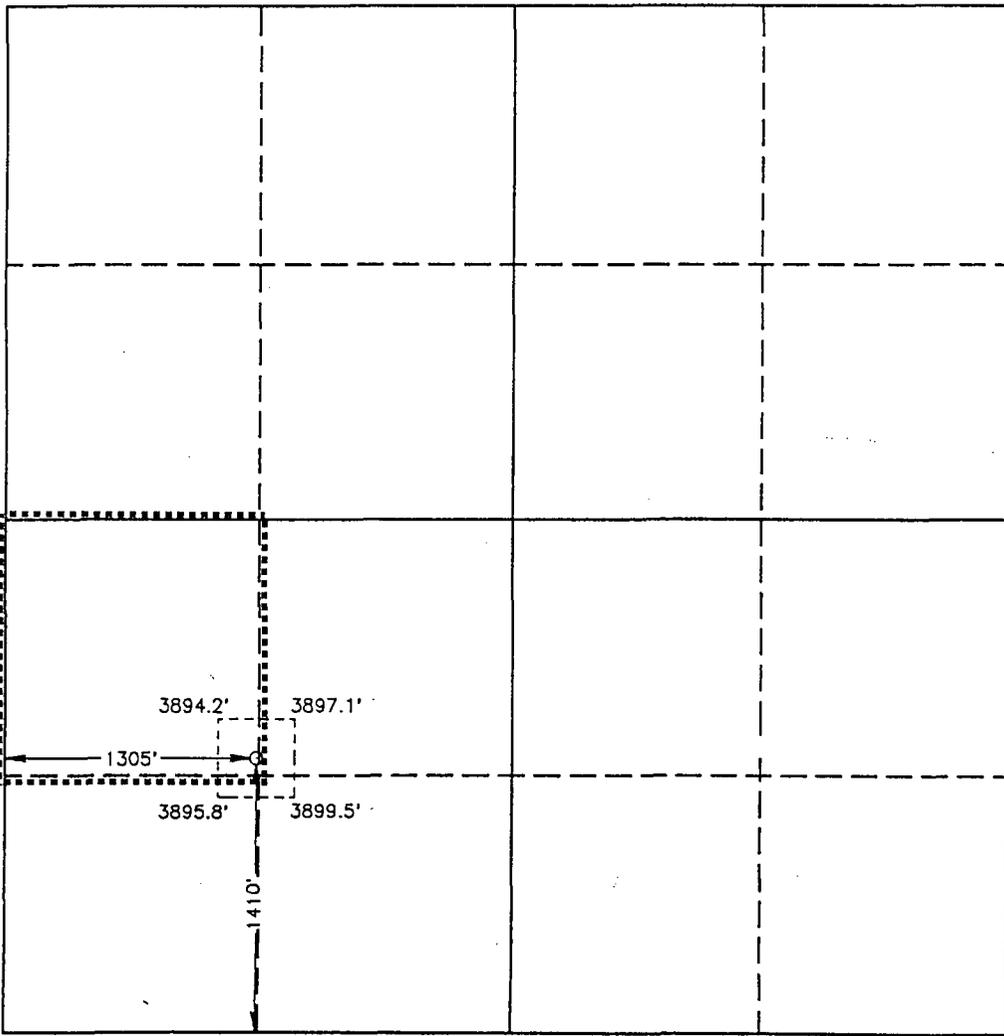
All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 70
Unit Letter L	Section 10	Township 17 SOUTH	Range 31 EAST	County NMPM EDDY	

Actual Footage Location of Well:

1410 feet from the SOUTH line and		1305 feet from the WEST line	
Ground Level Elev. 3898.9'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation **NA**
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
 No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, 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
Jerry W. Long
Printed Name
JERRY W. LONG
Position
Permit Agent
Company
SOCORRO PETROLEUM COMPANY
Date
1/25/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JANUARY 5, 1992
Signature & Seal of
Professional Surveyor

Certificate No. **ROSE D. CULTY 7876**
CONNIE H. BRITTON 3239
KATHI D. ROBERT 7977
92-11-2046

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
DRILL DEEPEN

b. TYPE OF WELL
OIL WELL GAS WELL OTHER IN-FILL WELL SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
SOCORRO PETROLEUM COMPANY
Ph. 505-677-3223

3. ADDRESS AND TELEPHONE NO.
P.O. Box 37
Loco Hills, New Mexico 88255

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface: 1335' FSL, 15' FEL, Sec. 9, T. 17S., R. 31E. (Unit I)
At proposed prod. zone: Same (NESE)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
6.7 Air miles northeast of Loco Hills, New Mexico

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1335'

16. NO. OF ACRES IN LEASE 1919.88 Ac.

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. 933'±

19. PROPOSED DEPTH 4900'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3885.4' GL

22. APPROX. DATE WORK WILL START* As Soon As Possible

5. LEASE DESIGNATION AND SERIAL NO.
LC 029426-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Keel-West Waterflood Project

8. FARM OR LEASE NAME WELL NO.
H.E. West "B" No. 71

9. AP WELL NO.

10. FIELD AND POOL, OR WILDCAT
Grayburg-Jackson Pool

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 9, T. 17S., R. 31E.

12. COUNTY OR PARISH Eddy

13. STATE N.M.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'	460± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'	1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

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24. SIGNED Jerry W. Long TITLE Permit Agent DATE 1/26/93
JERRY W. LONG

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

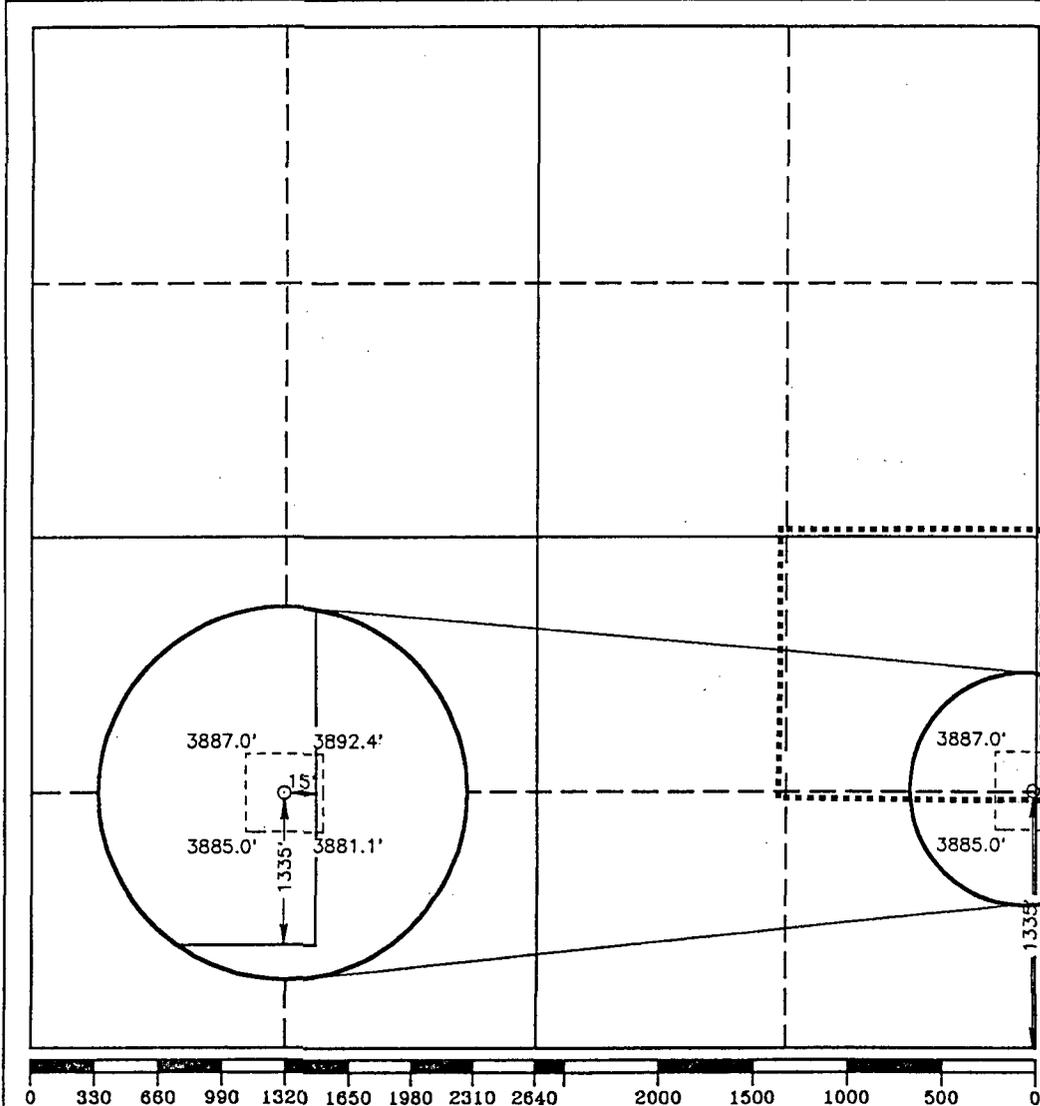
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator SOCORRO PETROLEUM COMPANY			Lease H.E. WEST "B"		Well No. 71
Unit Letter I	Section 9	Township 17 SOUTH	Range 31 EAST	NMPM	County EDDY
Actual Footage Location of Well: 1335 feet from the SOUTH line and 15 feet from the EAST line					
Ground Level Elev. 3885.4'	Producing Formation Grayburg-San Andres	Pool Grayburg-Jackson Pool	Dedicated Acreage: 40 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
 - If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
Single Lease
 - 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 If answer is "yes" type of consolidation NA
- If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary.)
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OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Long

Printed Name
JERRY W. LONG

Position
Permit Agent

Company
SOCORRO PETROLEUM CO.

Date
1/26/93

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JANUARY 5, 1992

Signature & Seal of Professional Surveyor
[Signature]

Certificate No. **7977**

РОЗН И ЦЕНТРАЛЬНЫЙ РАЙОН
СОСТАВ И ДИСТРИКТ
КАСН И РОЗН 7977

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