STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

January 27, 1997

Marbob Energy Corporation P. O. Box 227 Artesia, New Mexico 88211-0217 Attention: Mike Hanagan

Administrative Order DD-163(H)(SD)
High Angle/Horizontal

Dear Mr. Hanagan:

Reference is made to Marbob Energy Corporation's ("Marbob") application dated January 6, 1997 for authorization to initiate a high angle/horizontal directionally drilling project within the Chisum-Devonian Pool underlying the 80 acres comprising the E/2 NW/4 of Section 12, Township 11 South, Range 27 East, NMPM, Chaves County, New Mexico.

The Division Director Finds That:

- (1) The subject application has been duly filed under the provisions of Rule 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995;
- (2) The Chisum-Devonian currently comprises the W/2 of Section 12 and all of Section 13, Township 11 South, Range 27 East, NMPM, and the W/2 equivalent of Section 18, Township 11 South, Range 28 East, NMPM, all in Chaves County, New Mexico;
- (3) Said pool is subject to the statewide rules and regulations, as promulgated by Rule 104.C(1)(a), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of a single 40-acre oil spacing and proration unit;
- (4) The "project area" proposed by Marbob would consist of an over-sized spacing unit comprising 80 acres (two standard 40-acre tracts) underlying the E/2 NW/4 of said Section 12;
- (5) Marbob is currently developing the Chisum-Devonian Pool within the subject 80-

acre project area with its State "CF" Well No. 10 (API No. 30-005-63068), located within a standard 40-acre oil spacing and proration unit comprising the NE/4 NW/4 of said Section 12 at a standard oil well location 847 feet from the North line and 1765 feet from the West line (Unit C) of said Section 12;

- (6) It is Marbob's intent to place its State "CF" Well No. 11 (API No. 30-005-63111) at a standard oil well location 1650 feet from the North and West lines (Unit F) of said Section 12, drill vertically to an approximate depth of 6425 feet, kick-off in a northerly direction with a short radius wellbore (71 degrees/100 feet), and drill horizontally a lateral distance of approximately 1,320 feet through the Devonian formation;
- (7) The applicable drilling window or "producing area" for said wellbore should include that area within the subject 80-acre non-standard oil spacing and proration unit comprising the E/2 NW/4 of said Section 12 that is no closer than 330 feet to the outer boundary of said proration unit; and,
- (8) It appears the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

IT IS THEREFORE ORDERED THAT:

(1) Marbob Energy Corporation ("Marbob") is hereby authorized to initiate a high angle/horizontal directional drilling project within a non-standard 80-acre oil spacing and proration unit comprising the E/2 NW/4 of Section 12, Township 11 South, Range 27 East, NMPM, Chisum-Devonian Pool, Chaves County, New Mexico, by drilling its State "CF" Well No. 11 (API No. 30-005-63111) at a standard oil well location 1650 feet from the North and West lines (Unit F) of said Section 12, drill vertically to an approximate depth of 6425 feet, kick-off in a northerly direction with a short radius wellbore (71 degrees/100 feet), and drill horizontally a lateral distance of approximately 1,320 feet through the Devonian formation;

<u>PROVIDED HOWEVER THAT</u> prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

<u>PROVIDED FURTHER THAT</u> during or upon completion of said directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and

Administrative Order DD-163(H)(SD) Marbob Energy Corporation January 27, 1997 Page 3

course, may be determined.

- (2) The applicant shall notify the supervisor of the Artesia District office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Artesia offices of the Division upon completion.
- (3) The "project area" for said horizontal well shall consist of an oversized 80-acre non-standard oil spacing and proration unit for said pool comprising the E/2 NW/4 of said Section 12, whereby both the subject well and Marbob's State "CF" Well No. 10 (API No. 30-005-63068), located at a standard oil well location 847 feet from the North line and 1765 feet from the West line (Unit C) of said Section 12, are both to be simultaneously dedicated.
- (4) The applicable drilling window or "producing area" for said wellbore shall include that area within this 80-acre non-standard oil spacing and proration unit that is no closer than 330 feet to the outer boundary of said unit.
- (5) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F.
- (6) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth (TVD) in addition to measured depths (MVD).
- (7) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director

SEAL

cc: Oil Conservation Division - Artesia
New Mexico State Land Office - Santa Fe

DD-MAR.H

January 27, 1997

Ru: 1-8-97
Susp: 1-28-97
Whires Received
Rolegsed 1-27-97

Marbob Energy Corporation P. O. Box 227 Artesia, New Mexico 88211-0217

Attention: Mike Hanagan

Administrative Order DD-*****(H)(SD)
High Angle/Horizontal

Dear Mr. Hanagan:

Reference is made to Marbob Energy Corporation's ("Marbob") application dated January 6, 1997 for authorization to initiate a high angle/horizontal directionally drilling project within the Chisum-Devonian Pool underlying the 80 acres comprising the E/2 NW/4 of Section 12, Township 11 South, Range 27 East, NMPM, Chaves County, New Mexico.

The Division Director Finds That:

- (1) The subject application has been duly filed under the provisions of Rule 111.D and E of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10388, issued by the Oil Conservation Commission in Case 11,274 on June 13, 1995;
- (2) The Chisum-Devonian currently comprises the W/2 of Section 12 and all of Section 13, Township 11 South, Range 27 East, NMPM, and the W/2 equivalent of Section 18, Township 11 South, Range 28 East, NMPM, all in Chaves County, New Mexico;
- (3) Said pool is subject to the statewide rules and regulations, as promulgated by Rule 104.C(1)(a), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of a single 40-acre oil spacing and proration unit;
- (4) The "project area" proposed by Marbob would consist of an over-sized spacing unit comprising 80 acres (two standard 40-acre tracts) underlying the E/2 NW/4 of said Section 12;
- (5) Marbob is currently developing the Chisum-Devonian Pool within the subject 80-

acre project area with its State "CF" Well No. 10 (API No. 30-005-63068), located within a standard 40-acre oil spacing and proration unit comprising the NE/4 NW/4 of said Section 12 at a standard oil well location 847 feet from the North line and 1765 feet from the West line (Unit C) of said Section 12;

- (6) It is Marbob's intent to place its State "CF" Well No. 11 (API No. 30-005-63111) at a standard oil well location 1650 feet from the North and West lines (Unit F) of said Section 12, drill vertically to an approximate depth of 6425 feet, kick-off in a northerly direction with a short radius wellbore (71 degrees/100 feet), and drill horizontally a lateral distance of approximately 1,320 feet through the Devonian formation;
- (7) The applicable drilling window or "producing area" for said wellbore should include that area within the subject 80-acre non-standard oil spacing and proration unit comprising the E/2 NW/4 of said Section 12 that is no closer than 330 feet to the outer boundary of said proration unit; and,
- (8) It appears the applicant has satisfied all of the appropriate requirements prescribed in said Rule 111.D and E, the subject application should be approved and the well should be governed by the provisions contained within this order and all other applicable provisions of Division General Rule 111.

IT IS THEREFORE ORDERED THAT:

(1) Marbob Energy Corporation ("Marbob") is hereby authorized to initiate a high angle/horizontal directional drilling project within a non-standard 80-acre oil spacing and proration unit comprising the E/2 NW/4 of Section 12, Township 11 South, Range 27 East, NMPM, Chisum-Devonian Pool, Chaves County, New Mexico, by drilling its State "CF" Well No. 11 (API No. 30-005-63111) at a standard oil well location 1650 feet from the North and West lines (Unit F) of said Section 12, drill vertically to an approximate depth of 6425 feet, kick-off in a northerly direction with a short radius wellbore (71 degrees/100 feet), and drill horizontally a lateral distance of approximately 1,320 feet through the Devonian formation;

PROVIDED HOWEVER THAT prior to commencing directional drilling operations in said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

<u>PROVIDED FURTHER THAT</u> during or upon completion of said directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

(2) The applicant shall notify the supervisor of the Artesia District office of the Division of the date and time said wellbore surveys are to be conducted so that they may be

witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Artesia offices of the Division upon completion.

- (3) The "project area" for said horizontal well shall consist of an oversized 80-acre non-standard oil spacing and proration unit for said pool comprising the E/2 NW/4 of said Section 12, whereby both the subject well and Marbob's State "CF" Well No. 10 (API No. 30-005-63068), located at a standard oil well location 847 feet from the North line and 1765 feet from the West line (Unit C) of said Section 12, are both to be simultaneously dedicated.
- (4) The applicable drilling window or "producing area" for said wellbore shall include that area within this 80-acre non-standard oil spacing and proration unit that is no closer than 330 feet to the outer boundary of said unit.
- (5) The operator shall comply with all requirements and conditions set forth in Division General Rule 111.E(2) and any applicable requirements in 111.D and F.
- (6) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth (TVD) in addition to measured depths (MVD).
- (7) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY Director

SEAL

cc: Oil Conservation Division - Artesia
New Mexico State Land Office - Santa Fe

OF CONSERVE FOR DIVISION RECEIVED

'97 JAN B AM 8 52

energy corporation—

January 6, 1997

1-8-97

Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Attention: Michael Stogner

RE: State CF #11

1650' FNL and 1650' FWL

Section 12-11S-27E

Chaves County, New Mexico

Dear Mr. Stogner:

Please find attached two (2) originals of our Application for Administrative Approval of the above referenced well.

As I mentioned last week, we have set up the drilling equipment to move in January 13, 1997. I have received verbal waivers from both offset operators (Amoco Production Company and Yates Petroleum Corporation), and expect to have the executed waivers this week.

We would sure appreciate at least a verbal approval from the OCD (after we provide you with executed waivers) to begin the actual drilling operations on this well.

Should you have any questions regarding this matter, please give me a call at 505/623-5053.

Sincerely,

Mike Hanagan Geologist

MH/mm Enclosures



New Mexico Department of Energy, Minerals and Natural Resources Oil Conservation Division 2040 North Pacheco Santa Fe, New Mexico 87505

Attention: Mr. Mike Stogner

RE: APPLICATION FOR ADMINISTRATIVE APPROVAL

FOR A DIRECTIONAL WELLBORE

Marbob Energy Corporation

#11 State "CF"

Surface Location: 1650' FNL & 1650' FWL

Section 12-T11S-R27E

Chaves County, New Mexico

Dear Mr. Stogner:

Marbob Energy Corporation (Marbob) hereby makes application pursuant to Oil Conservation Division Rule 111.D for administrative approval to directionally drill the above referenced #11 State "CF" well in the Devonian formation. This application is designed to address each requirement of OCD Rules 111.D. and 111.E..

OCD Rule 111.D.(1)

- (a) The "drilling unit" for the well will consist of two (2) contiguous 40 acre spacing units being the NE/4 NW/4 and the SE/4 NW/4 of section 12-T11S-R27E
- (b) The "producing interval" of the well bore shall be confined within a standard "producing area" as defined in Rule 111.A.(8). The proposed lateral will begin at a legal location in the SE/4 NW/4 of 1650' FNL and 1650' FWL and will end at a legal location in the NE/4 NW/4 of 330' FNL and 1650' FWL of section 12-T11S-R27E. At no point will the wellbore be closer than 990' to any offset operators outer boundary.
- (c) The "project area" will be the E/2 NW/4 of section 12-T11S-R27E.
- (d) The "project well" will be a single horizontal lateral 1320' (max) in length.

Application For Directional Wellbore

OCD Rule 111.D.(2)

(a) Marbob desires to directionally and horizontally drill the #11 State CF well in order to more effectively and efficiently drain a Siluro-Devonian age structure that has been imaged by 3D seismic information and was confirmed by the Marbob #10 State CF well which was drilled in June, 1995. Production from the #10 well stabilized at a rate of 60-70 BOPD which is unusually low for normal Siluro-Devonian producers. In November, 1996 Marbob drilled the #11 State CF to a depth of 6550' (Siluro-Devonian) and set 5.5" production casing at 6415'. Marbob left the 135' of open hole interval so that if production rates at the #11 were similar to the #10 we could drill horizontally across the top of the structure so as to better drain the feature. In December, 1996 the #11 had stabilized production rates of 50-60 BOPD with no water.

Based on the production results from both the #10 and #11 wells it is Marbob's opinion that this feature exhibits lower than normal permeability for Siluro-Devonian reservoirs and that the productive area of the feature may not be effectively drained by the existing conventional vertical wellbores.

Marbob believes that by drilling horizontally across the top of this structure we will increase the ultimate oil recovery from the structure, perhaps substantially, and will do so in a more cost effective manner than by producing from two separate vertical wellbores.

The estimated productive area of this feature (as defined by 3D seismic and subsurface information) is approximately 75 acres. The entire estimated productive area of this feature should be within the boundaries of the proposed drilling unit. Recoverable oil reserves from this feature are estimated to be between 250,000 BO and 450,000 BO.

- (b) Exh. #1 is a plat showing the project area, the surface location, the proposed final bottomhole location, the producing area, existing wells in the project area, and all offset drilling units and their associated operator. The well is within the boundaries of the Chisum Devonian field which has standard 40 acre spacing units. Therefore the project area will consist of two spacing units, being the E/2 NW/4 of section 12-T11S-R27E. Once again, please note that the wellbore will not ever be closer than 990' from the nearest offset operators leaseline.
- (c) Exh. #2 is a cross-sectional view of the proposed well which shows the true vertical depth of the top of the pay zone at 6538', a build angle of 71 deg/100', the true vertical/measured depth of the kickoff point being at 6425', the angle at the end of build being 90 degrees, the point of penetration into the Siluro-Devonian being at a point 80'-100' due north at a true vertical depth of 6545', and a lateral length in the pay zone of 1220' (1320' total lateral length).
- (d) Exh. #3 is a plan view of the proposed well which shows the spacing units and drilling unit, the producing area, the azimuth of true north, and the maximum lateral length which will not exceed 1320'.
- (e) Exh. #4 is a type log from the Amoco Production Company #5 State CF well which is located a little over 1 mile south of the proposal. This well was used as the type log since it penetrated far enough into the Siluro-Devonian to see the

Application For Directional Wellbore

formation on logs. Normal completion procedures in this formation usually only include drilling 5'-15' into the formation which does not allow us to see the pay zone on logs. Rule 111D.2.e requests that the bottom of the subject pool be shown on the type log. This is difficult in this area as the entire interval from the top of the Siluro-Devonian down to Pre-Cambrian basement consists almost entirely of dolomite with only minor lithologic differences. This makes differentiation of the Siluro-Devonian, Fusselman, Montoya and Ellenburger sections quite difficult. However, the normal gross oil column thickness' for Siluro-Devonian fields in this area range from 10'-50' with 30' being the most common pay thickness in the area.

(f) Exh. #5 is statement showing the names and addresses of all operators of offset spacing units to the proposed well. Each offset operator has been sent a copy of this application by certified mail-return receipt requested along with notification that any objection to this application must be filed within 20 days of the date that the notice was sent.

OCD Rule 111.D.(3)

It appears that the allowable for the entire drilling unit/spacing unit for the E/2 NW/4 of section 12 will be 284 BOPD (2 standard 40 acre spacing unit allowable in the 6,000'-6,999' allowable range). As the Marbob State CF #10 is within the producing area production from the #10 (if produced) would be included in the 284 BOPD allowable.

OCD Rule 111.E.(1)

Marbob requests administrative approval of this proposal upon expiration of the 20 day objection period (provided that there are no objections) unless Marbob can obtain waivers prior to the expiration of the 20 day period from the offset operators, in which case Marbob would request immediate approval as provided by OCD Rule 111.E.(1).

OCD Rule 111.E.(2)

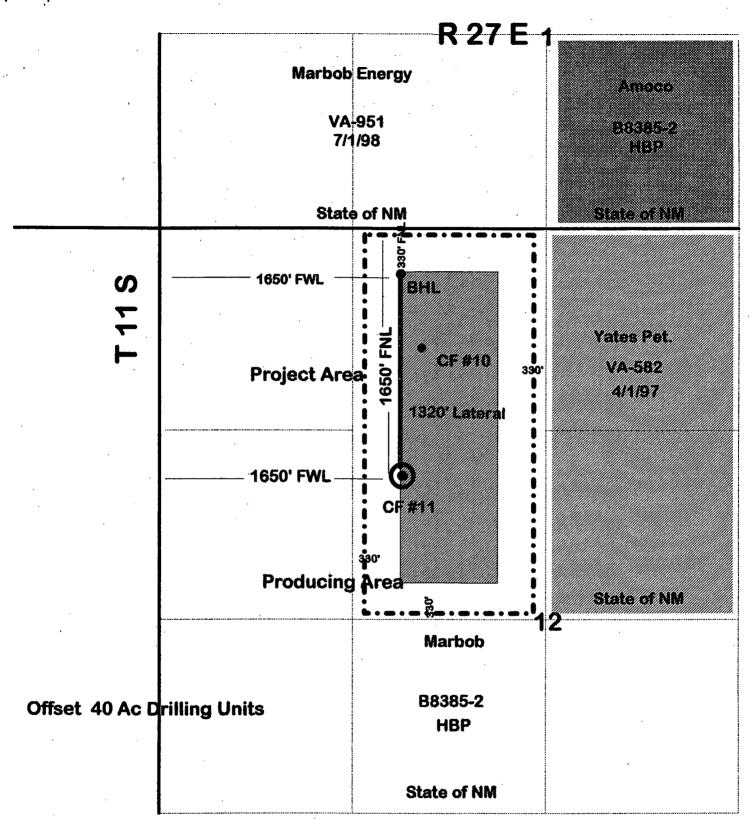
- (a) Marbob shall conduct a directional survey on the wellbore after termination of the drilling operations that will determine the direction and extent of the lateral.
- (b) Marbob will notify the NMOCD Artesia office in time to witness directional surveys. Marbob will supply NMOCD with copies of any directional surveys of the wellbore.

As this proposal appears to meet the requirements and conditions of OCD Rule 111.D. & E., Marbob respectfully requests consideration by the Division Director for administrative approval as provided for in OCD Rule 111.D & E.

Thank you for your time and for your consideration of this application. Should you have any questions, please feel free to give me a call at 623-5053 or 622-6182.

Respectfully Submitted,
MARBOB ENERGY CORPORATION

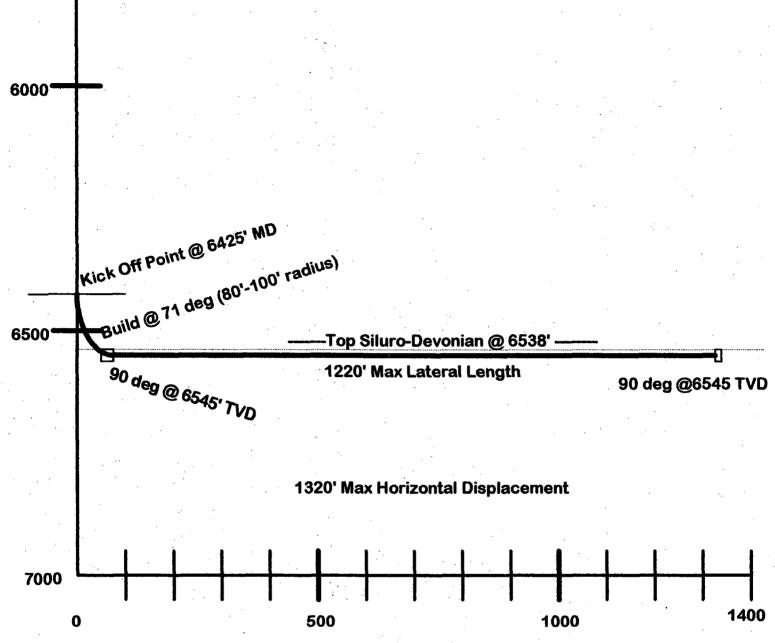
Mike Hanagan, Geologist



Marbob Energy Corporation <u>Application For Administrative Approval</u> <u>For Directional Wellbore</u>

State "CF" #11

Scale: 8" = 1 mile / 1"=660"



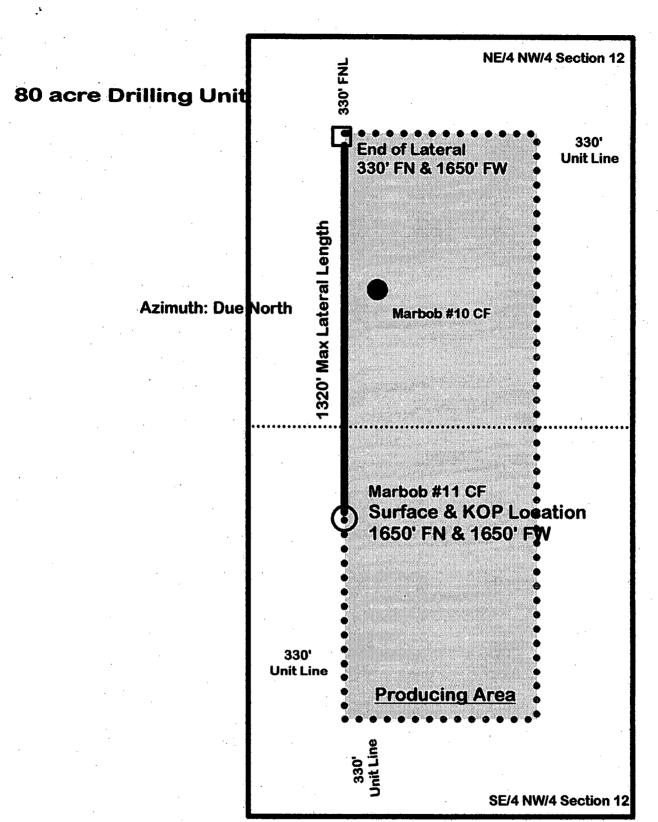
Marbob Energy Corporation #11 State "CF"

Application For Administrative Approval For Directional Wellbore

Cross Section View of Well Plan

Vertical Scale: 1"=200'

Horizontal Scale: 1" = 200'



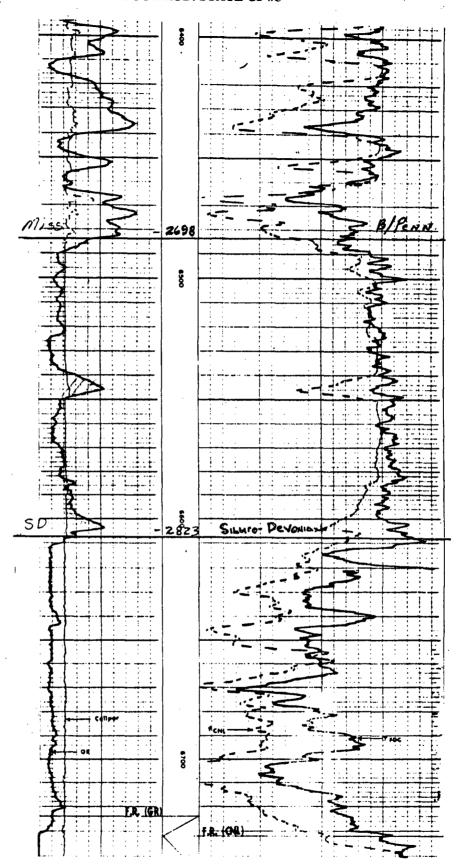
Marbob Energy Corporation State CF #11

Application For Administrative Approval For Directional Wellbore

Horizontal Plan View For Wellbore

Scale: 1'=330'

TYPE LOG AMOCO PROD. STATE CF #5



Marbob Energy Corporation State CF #11

Application For Administrative Approval For Directional Wellbore

OFFSET OPERATORS AND ADDRESSES EXHIBIT #5

There are only two offset operators to the proposed directional wellbore. The proposed wellbore will not be closer than 990' to either offset operator. Each operator has been supplied a copy of this application by certified mail-return reciept mail.

Yates Petroleum Corporation is the offset operator of 80 acres on the east side of the proposed drilling unit (W/2 NE/4 section 12). Both of the 40 acre spacing units are under the same lease and there is no producing well on the 80 acres.

Amoco Production Company is the offset operator of the 40 acres tract diagonally adjacent to the northeast of the proposed drilling unit. There are no wells on the Amoco tract.

Addresses for each of these operators are given below. In addition, marbob will attempt to contact each of these operators about the proposed directional wellbore.

YATES PETROLEUM CORPORATION 105 South Fourth Street Artesia, New Mexico 88210

AMOCO PRODUCTION COMPANY 501 Westlake Park Blvd. Houston, Texas 77079



Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

RE: Directional Wellbore

Gentlemen:

Enclosed please find an application for a proposed Directional Wellbore located in Section 12, Township 11 South, Range 27 East, Chaves County, New Mexico. If you have any questions regarding this application, please contact me at 505/622-6182.

If you have no objections to the proposed Directional Wellbore, please sign below and return one copy of this letter to Marbob Energy Corporation.

Sincerely,

Mike Hanagan

Geologist

MH/mm Enclosures

YATES PETROLEUM CORPORATION has no objections to the proposed Directional Wellbore:

By:

Title:

Date:



Amoco Production Company Post Office Box 3092 Houston, Texas 77253

RE: Directional Wellbore

Gentlemen:

Enclosed please find an application for a proposed Directional Wellbore located in Section 12, Township II South, Range 27 East, Chaves County, New Mexico. If you have any questions regarding this application, please contact me at 505/622-6182.

If you have no objections to the proposed Directional Wellbore, please sign below and return one copy of this letter to Marbob Energy Corporation.

Sincerely,

Mike Hanagan

Geologist

MH/mm Enclosures

AMOCO PRODUCTION COMPANY has no objections to the proposed Directional Wellbore:

By:

Title:

State of New Mexico Permit peak CEIVE Revised February 10, 1994 PO Box 1980, Hobbs, NM 88241-1980 Instructions on back PO Drawer DD, Artesia, NM 88211-0719 OIL CONSERVATION DIVISION Submit to Appropriate District Office PO Box 2088 Santa Fe, NM 87504-2088 NOV - 5 1995 District III State Lease - 6 Copies 1000 Rio Brazos Rd., Aztec, NM 87410 Fee Lease - 5 Copies District IV NUV 14 1996 AMENDED REPORT PO Box 2088, Santa Fe, NM 87504-2038 APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address. OGRID Number MARBOB ENERGY CORPORATION 14049 P. O. BOX" 227 API Number ARTESIA, NM 88210 30-005-63111 Property Code Property Name ' Well No. 6542 STATE CF 11 ⁷ Surface Location North/South Las UL or let me. Township Lot Ida Feet from the Fest from the East/West Rac F 12 118 BENW 1650 N 1650 W CHAVES ⁸ Proposed Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Ida Feet from the North/South fine Feet from the East/West fine 3301 1650' Chaves 12 115 27E NENW C " Proposed Pool 2 Proposed Pool 1 CHISUM: DEVONIAN 12160 Work Type Code 13 Well Type Code 13 Cable Rotary 14 Lease Type Code " Ground Level Elevation 3739 · R 16 Multiple " Proposes Depth * Sped Date " Formation " Contractor 01/13/97 6650' DEVONIAN ²¹ Proposed Casing and Cement Program Casing weight/foot Hole Size Casing Size Setting Depth Sacks of Camera **Estimated TOC** 12 1/4" 8 5/8" 24# 14651 650 SX CIRC 7 7/8" 5 1/2" 17# 6650 300 SX 6000' Describe the proposed program. If this application is to DEEPEN or PLUG SACK give the clate on the present productive man and proposed new productive may. Describe the blowest prevention program, if any. Use additional shoets if necessary. PROPOSE TO KICK OFF WELL @ 6425' AND DRILL HORIZONTAL WELLBORE DUE NORTH TO A POINT NOT CLOSER THAN 330' FROM THE NORTH LINE. iven above is true and complete to the best OIL CONSERVATION DIVISION Approved by: SUPERVISOR, DISTRICT II Title: RHONDA NELSON Approval Date: Expiration Date: 17-96 //-/2-97 PRODUCTION CLERK Conditions of Approval: Phone: 11/5/96

Attached

□

748-3303

DISTRICT I P.O. Box 1980, Hobbs, NM 68241-1980 State of New Mexico Department 0 7 1996

Revised February 10, 1994

Appropriate District Office

State Lease - 4 Copies
- 3 Copies

Pee Lease - 3 Copies

DISTRICT II P.Q. Drawer DD, Artesia, NM 68211-0719

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088 NOV 14 1986 MENDED REPORT

DISTRICT IV P.O. Box 2068, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | Pool Code | Pool Name | ,, | | |
|---------------|-----------|-------------------------------------|---------------|--|--|
| 30-005-63111 | 12160 | | | | |
| Property Code | Prop | 12160 CHISUM DEVONIAN Property Name | | | |
| 6542 | STA | STATE CF | | | |
| OGRID No. | Oper | Operator Name | | | |
| 14049 | MARBOB E | NERGY CORPORATION | 3739 | | |

Surface Location

| UL or lot No. | Section | Township | Range | Lot ldn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| F. | 12 | 11 S | 27 E | | 1650 | NORTH | 1650 | WEST | CHAVES |

Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South Hae | Feet from the | Rest/West line | County |
|--|---------|----------|---------|---------|---------------|-----------------|---------------|----------------|--------|
| С | 12 | 118 | 27E | , | 330' | N | 1650' | W | CHAVES |
| Dedicated Acres Joint or Infill Consolidation Code | | | Code Or | der No | | | | | |
| 80 | | | | | • | | | | |

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

| 1650' | PROPOSED BE | L. | N 868287.20 E 546371.56 | OPERATOR CERTIFICATION I hereby certify the the information configured herein is true and complete to the best of my knowledge and belief. |
|-------|--|----|----------------------------|--|
| | 1 650. | | | Thorda Mulson |
| 1650' | | | !] | RHONDA NELSON Printed Name |
| · | | .* | | PRODUCTION CLERK |
| | SPC NME NAD 27 N 866595.00 E 542767.00 | | | 11/8/96 Date |
| | `- | | | SURVEYOR CERTIFICATION |
| | | • | N 865649.93 E 546387.32 | 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 supervisor, and that the same is true and |
| | | | | correct to the best of my beliaf. |
| | | | | NOVEMBER 5, 1996 Date Porphysid 5 100 JLP Signature of Spring O |
| | | | | Signature & Seel M. O. Protessation Surveyor |
| | | | | 3238 5 1-06.96 No. Num. 96-10-1441 |
| | | | | Certificate No. 1944 M. WEST, 678 OFES ROLL J. FIDSON, 3239 GARY G. EIDSON, 12841 |



New Mexico Department of Energy, Minerals and Natural Resources Oil Conservation Division 2040 North Pacheco Santa Fe, New Mexico 87505

Attention: Mr. Mike Stogner

RE: APPLICATION FOR ADMINISTRATIVE APPROVAL

FOR A DIRECTIONAL WELLBORE

Marbob Energy Corporation

#11 State "CF"

Surface Location: 1650' FNL & 1650' FWL

Section 12-T11S-R27E

Chaves County, New Mexico

Dear Mr. Stogner:

Marbob Energy Corporation (Marbob) hereby makes application pursuant to Oil Conservation Division Rule 111.D for administrative approval to directionally drill the above referenced #11 State "CF" well in the Devonian formation. This application is designed to address each requirement of OCD Rules 111.D. and 111.E..

OCD Rule 111.D.(1)

- (a) The "drilling unit" for the well will consist of two (2) contiguous 40 acre spacing units being the NE/4 NW/4 and the SE/4 NW/4 of section 12-T11S-R27E
- (b) The "producing interval" of the well bore shall be confined within a standard "producing area" as defined in Rule 111.A.(8). The proposed lateral will begin at a legal location in the SE/4 NW/4 of 1650' FNL and 1650' FWL and will end at a legal location in the NE/4 NW/4 of 330' FNL and 1650' FWL of section 12-T11S-R27E. At no point will the wellbore be closer than 990' to any offset operators outer boundary.
- (c) The "project area" will be the E/2 NW/4 of section 12-T11S-R27E.
- (d) The "project well" will be a single horizontal lateral 1320' (max) in length.

Application For Directional Wellbore

OCD Rule 111.D.(2)

(a) Marbob desires to directionally and horizontally drill the #11 State CF well in order to more effectively and efficiently drain a Siluro-Devonian age structure that has been imaged by 3D seismic information and was confirmed by the Marbob #10 State CF well which was drilled in June, 1995. Production from the #10 well stabilized at a rate of 60-70 BOPD which is unusually low for normal Siluro-Devonian producers. In November, 1996 Marbob drilled the #11 State CF to a depth of 6550' (Siluro-Devonian) and set 5.5" production casing at 6415'. Marbob left the 135' of open hole interval so that if production rates at the #11 were similar to the #10 we could drill horizontally across the top of the structure so as to better drain the feature. In December, 1996 the #11 had stabilized production rates of 50-60 BOPD with no water.

Based on the production results from both the #10 and #11 wells it is Marbob's opinion that this feature exhibits lower than normal permeability for Siluro-Devonian reservoirs and that the productive area of the feature may not be effectively drained by the existing conventional vertical wellbores.

Marbob believes that by drilling horizontally across the top of this structure we will increase the ultimate oil recovery from the structure, perhaps substantially, and will do so in a more cost effective manner than by producing from two separate vertical wellbores.

The estimated productive area of this feature (as defined by 3D seismic and subsurface information) is approximately 75 acres. The entire estimated productive area of this feature should be within the boundaries of the proposed drilling unit. Recoverable oil reserves from this feature are estimated to be between 250,000 BO and 450,000 BO.

- (b) Exh. #1 is a plat showing the project area, the surface location, the proposed final bottomhole location, the producing area, existing wells in the project area, and all offset drilling units and their associated operator. The well is within the boundaries of the Chisum Devonian field which has standard 40 acre spacing units. Therefore the project area will consist of two spacing units, being the E/2 NW/4 of section 12-T11S-R27E. Once again, please note that the wellbore will not ever be closer than 990' from the nearest offset operators leaseline.
- (c) Exh. #2 is a cross-sectional view of the proposed well which shows the true vertical depth of the top of the pay zone at 6538', a build angle of 71 deg/100', the true vertical/measured depth of the kickoff point being at 6425', the angle at the end of build being 90 degrees, the point of penetration into the Siluro-Devonian being at a point 80'-100' due north at a true vertical depth of 6545', and a lateral length in the pay zone of 1220' (1320' total lateral length).
- (d) Exh. #3 is a plan view of the proposed well which shows the spacing units and drilling unit, the producing area, the azimuth of true north, and the maximum lateral length which will not exceed 1320'.
- (e) Exh. #4 is a type log from the Amoco Production Company #5 State CF well which is located a little over 1 mile south of the proposal. This well was used as the type log since it penetrated far enough into the Siluro-Devonian to see the

Application For Directional Wellbore

formation on logs. Normal completion procedures in this formation usually only include drilling 5'-15' into the formation which does not allow us to see the pay zone on logs. Rule 111D.2.e requests that the bottom of the subject pool be shown on the type log. This is difficult in this area as the entire interval from the top of the Siluro-Devonian down to Pre-Cambrian basement consists almost entirely of dolomite with only minor lithologic differences. This makes differentiation of the Siluro-Devonian, Fusselman, Montoya and Ellenburger sections quite difficult. However, the normal gross oil column thickness' for Siluro-Devonian fields in this area range from 10'-50' with 30' being the most common pay thickness in the area.

(f) Exh. #5 is statement showing the names and addresses of all operators of offset spacing units to the proposed well. Each offset operator has been sent a copy of this application by certified mail-return receipt requested along with notification that any objection to this application must be filed within 20 days of the date that the notice was sent.

OCD Rule 111.D.(3)

It appears that the allowable for the entire drilling unit/spacing unit for the E/2 NW/4 of section 12 will be 284 BOPD (2 standard 40 acre spacing unit allowable in the 6,000'-6,999' allowable range) As the Marbob State CF #10 is within the producing area production from this well (if produced) would be included in the 284 BOPD allowable.

OCD Rule 111.E.(1)

Marbob requests administrative approval of this proposal upon expiration of the 20 day objection period (provided that there are no objections) unless Marbob can obtain waivers prior to the expiration of the 20 day period from the offset operators, in which case Marbob would request immediate approval as provided by OCD Rule 111.E.(1).

OCD Rule 111.E.(2)

- (a) Marbob shall conduct a directional survey on the wellbore after termination of the drilling operations that will determine the direction and extent of the lateral.
- (b) Marbob will notify the NMOCD Artesia office in time to witness directional surveys. Marbob will supply NMOCD with copies of any directional surveys of the wellbore.

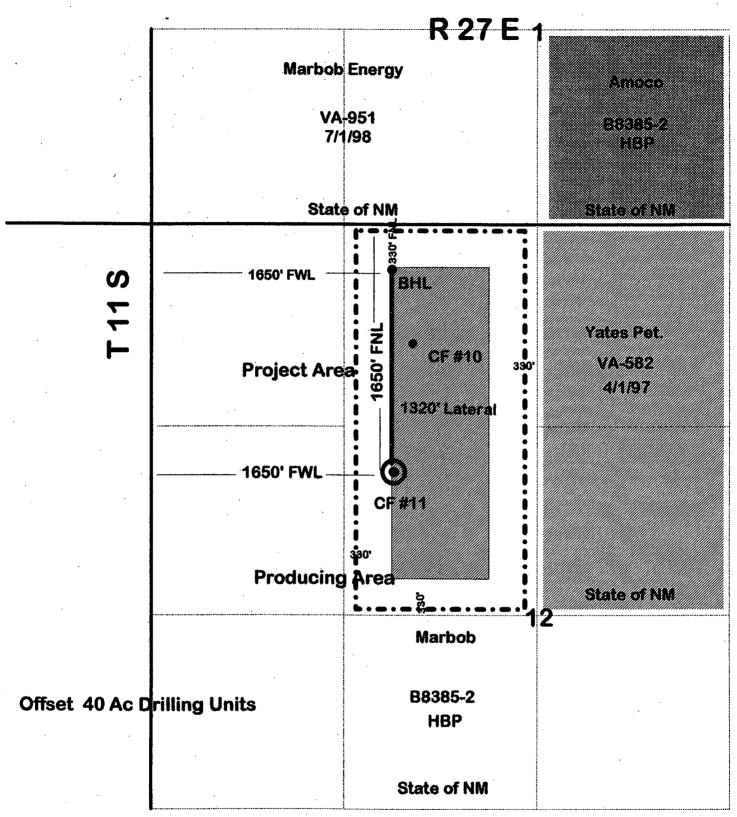
As this proposal appears to meet the requirements and conditions of OCD Rule 111.D. & E., Marbob respectfully requests consideration by the Division Director for administrative approval as provided for in OCD Rule 111.D & E.

Thank you for your time and for your consideration of this application. Should you have any questions, please feel free to give me a call at 623-5053 or 622-6182.

Respectfully Submitted,

MARBOB ENERGY CORPORATION

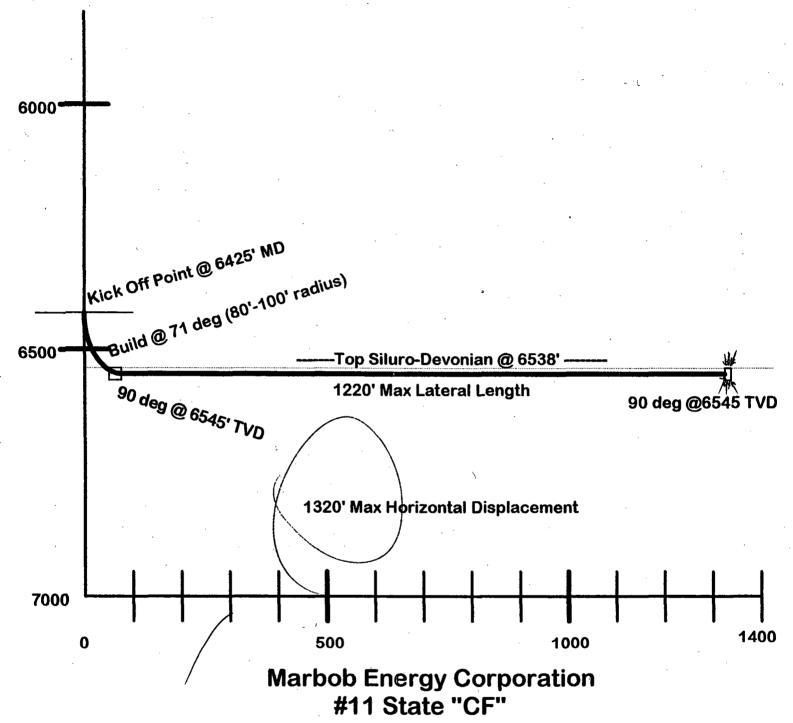
Mike Hanagan, Geologist



Marbob Energy Corporation <u>Application For Administrative Approval</u> <u>For Directional Wellbore</u>

State "CF" #11

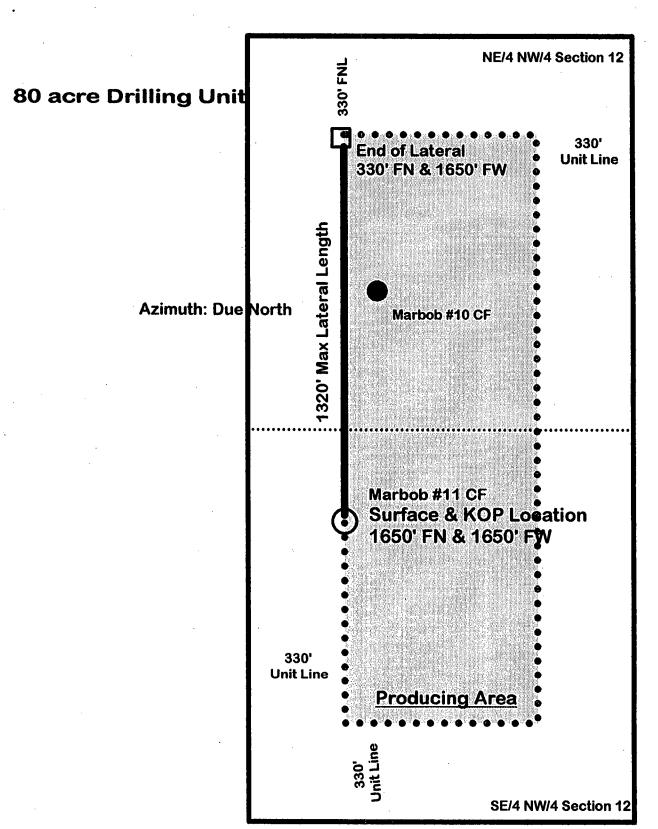
Scale: 8" = 1 mile / 1"=660'



Application For Administrative Approval For Directional Wellbore

Cross Section View of Well Plan

Vertical Scale: 1"=200' Horizontal Scale: 1" = 200'



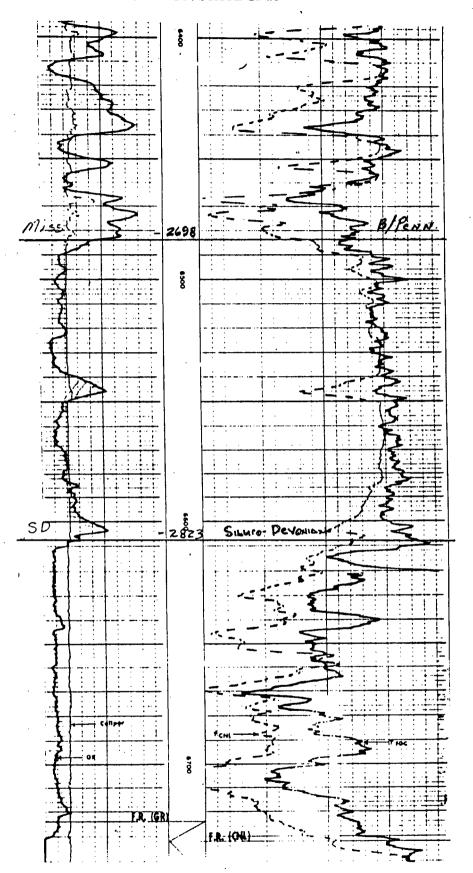
Marbob Energy Corporation State CF #11

Application For Administrative Approval For Directional Wellbore

Horizontal Plan View For Wellbore

Scale: 1'=330'

TYPE LOG AMOCO PROD. STATE CF #5



Marbob Energy Corporation State CF #11

Application For Administrative Approval For Directional Wellbore

OFFSET OPERATORS AND ADDRESSES EXHIBIT #5

There are only two offset operators to the proposed directional wellbore. The proposed wellbore will not be closer than 990' to either offset operator. Each operator has been supplied a copy of this application by certified mail-return reciept mail.

Yates Petroleum Corporation is the offset operator of 80 acres on the east side of the proposed drilling unit (W/2 NE/4 section 12). Both of the 40 acre spacing units are under the same lease and there is no producing well on the 80 acres.

Amoco Production Company is the offset operator of the 40 acres tract diagonally adjacent to the northeast of the proposed drilling unit. There are no wells on the Amoco tract.

Addresses for each of these operators are given below. In addition, marbob will attempt to contact each of these operators about the proposed directional wellbore.

YATES PETROLEUM CORPORATION 105 South Fourth Street Artesia, New Mexico 88210

AMOCO PRODUCTION COMPANY 501 Westlake Park Blvd. Houston, Texas 77079



Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

RE: Directional Wellbore

Gentlemen:

Enclosed please find an application for a proposed Directional Wellbore located in Section 12, Township 11 South, Range 27 East, Chaves County, New Mexico. If you have any questions regarding this application, please contact me at 505/622-6182.

If you have no objections to the proposed Directional Wellbore, please sign below and return one copy of this letter to Marbob Energy Corporation.

Sincerely,

Mike Hanagan

Geologist

MH/mm Enclosures

YATES PETROLEUM CORPORATION has no objections to the proposed Directional Wellbore:

By:

Title:



Amoco Production Company Post Office Box 3092 Houston, Texas 77253

RE: Directional Wellbore

Gentlemen:

Enclosed please find an application for a proposed Directional Wellbore located in Section 12, Township II South, Range 27 East, Chaves County, New Mexico. If you have any questions regarding this application, please contact me at 505/622-6182.

If you have no objections to the proposed Directional Wellbore, please sign below and return one copy of this letter to Marbob Energy Corporation.

Sincerely,

Mike Hanagan

Geologist

MH/mm Enclosures

AMOCO PRODUCTION COMPANY has no objections to the proposed Directional Wellbore:

By:

Title:

Date:

State of New Mexico Form C-101

Partners C | W E | Revised February 10, 1994 PO Box 1980, Habbs, NM 88241-1980 instructions on back PO Drawer DD, Artesia, NM 88211-0719 OIL CONSERVATION DIVISION Submit to Appropriate District Office District III Santa Fe, NM 87504-2088 NOV - 5 1995 PO Box 2088 State Lease - 6 Copies 1000 Rio Brazos Rd., Aztec, NM 87410 Fee Lease - 5 Copies District (V AMENDED REPORT PO Box 2088, Senta Pe, NM 87504-2088 APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address. OGRID Number MARBOB ENERGY CORPORATION 14049 P. O. BOX" 227 API Number ARTESIA, NM 88210 30-005-63111 Property Code Property Name Well No. 6542 STATE CF 11 ⁷ Surface Location North/South Lac Foot from the UL or lot se. Lot Ida Feet from the East/West Las BENW 1650 1650 F 12 W CHAVES ⁸ Proposed Bottom Hole Location If Different From Surface North/South Lee Section Township Lot Ida Feet from the Feet from the East/West Line UL or lot no. County 1650' 330' W Chaves 11S 27E NENW N 12 'Proposed Pool 1 16 Proposed Pool 2 CHISUM; DEVONIAN 12160 " Well Type Code " Ground Level Elevation Work Type Code 18 Cable/Rotary 14 Lease Type Code 3739 · R " Proposed Depth " Sped Date 14 Multiple 15 Formetica " Costractor 01/13/97 66501 DEVONIAN ²¹ Proposed Casing and Cement Program Casing weight/foot Hole Stae Casing Size Setting Depth Sacks of Cement **Estimated TOC** 12 1/4" 8 5/8" 24# 1465' 650 SX CIRC 7 7/8" 5 1/2" 17# 6650 6000' 300 SX Describe the proposed program. If this application is to DEEPEN or PLUG SACK give the date on the present productive same and proposed new productive man. Describe the blewest prevention program, if any. Use additional sheets if necessary. PROPOSE TO KICK OFF WELL @ 6425' AND DRILL HORIZONTAL WELLBORE DUE NORTH TO A POINT NOT CLOSER THAN 330' FROM THE NORTH LINE. is I herely certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION Approved by: SUPERVISOR, BISTRIGT II Title: Approval Date: **Expiration Date:** 7-96 PRODUCTION CLERK

Conditions of Approval:

Attached 🚨

Phone:

748-3303

11/5/96

DISTRICT I P.C. Box 1980, Hobbs, NM 88241-1980 State of New Mexico Porm C-10-Minerals and Natural Resources Department 0 7 1996 Revised Pebruary 10, 1994
Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088 NOV 14 1996 MENDED REPORT

DISTRICT IV P.O. Box 2066, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | Pool Code | Pool Name | | |
|----------------|-----------|-----------------|--|--|
| 30-005 - 63111 | 12160 | CHISUM DEVONIAN | | |
| Property Code | Prop | Well Number | | |
| 6542 | STA | 11 | | |
| OGRID No. | Oper | Elevation | | |
| 14049 | MARBOB E | 3739 | | |

Surface Location

| 1 | UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| | F | 12 | 11 S | 27 E | | 1650 | NORTH | 1650 | WEST | CHAVES |

Bottom Hole Location If Different From Surface

| | | | | | | | 2000 | | |
|----------------|-----------|----------|---------------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot No. | Section | Township | Range | Lot ldn | Feet from the | North/South Hine | Feet from the | East/West line | County |
| C C | 12 | 118 | 27E | | 3301 | N | 1650' | W | CHAVES |
| Dedicated Acre | s Joint o | r Infili | Consolidation | Code O | rder No | | | | |
| on Single | | j | | | • | | | | |

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

| <u> </u> | OR A NON-STAN | DARD UNIT HAS BE | EN APPROVED BY TH | E DIVISION |
|---------------|-------------------------------|------------------|----------------------------|--|
| 1650 ' | PROPOSED BE | IL | N 868287.20 E 546371.56 | OPERATOR CERTIFICATION I hereby certify the the information configured heroin is true and complete to the best of my knowledge and belief. |
| 1650' | SPC NME NAD 27 N 866595.00 | | | RHONDA NELSON Printed Name PRODUCTION CLERK Title 11/8/96 Date |
| | E 542767.00 | | N 865649.93 E 546387.32 | 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 supervisor, and that the same is true and correct to the best of my belief. |
| · | | | | NOVEMBER 5, 1996 Date Surphysel 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| | | | | Certificate No. 19441 Certificate No. 1944 West, 678 GARY G. EIDSON, 12841 |



FAX TRANSMITTAL SHEET

| DATE: | Jan 6, 1997 |
|----------|---|
| TO: | Michael Stogner |
| FAX #: | 827-8177 |
| FROM: | Misti McLurg |
| COMMENT | rs: |
| TOTAL # | OF PAGES (including cover sheet): Z |
| If you I | have any trouble receiving this fax, please contact me. |

Phone # 505/748-3303

Fax # 505/746-2523



Amoco Production Company Post Office Box 3092 Houston, Texas 77253

> RE: Directional Wellbore

Gentlemen:

Enclosed please find an application for a proposed Directional Wellbore located in Section 12, Township II South, Range 27 East, Chaves County, New Mexico. If you have any questions regarding this application, please contact me at 505/622-6182.

If you have no objections to the proposed Directional Wellbore, please sign below and return one copy of this letter to Marbob Energy Corporation.

Sincerely.

Mike Hanagan **Qeologist**

MH/mm Enclosures

AMOCO PRODUCTION COMPANY has no objections to the proposed Directional Wellbore:

By:

Title: <u>letroleum Ensineer 56</u>

Date: /997 - / - 6



FAX TRANSMITTAL SHEET

| DATE: | Jan. 8, 1997 | |
|---------|-------------------------------------|--|
| | Michael Stogner | |
| TO: | Truchael stogker | |
| FAX #: | 827-8177 | |
| FROM: | Misti Mlug | |
| | | |
| COMMEN | ITS: | |
| | | |
| | | |
| TOTAL # | OF PAGES (including cover sheef): Z | |
| | | |

Phone # 505/748-3303 Fax # 505/746-2523

If you have any trouble receiving this fax, please contact me.



Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210

RE: Directional Wellbore

Gentlemen:

Enclosed please find an application for a proposed Directional Wellbore located in Section 12, Township II South, Range 27 East, Chaves County, New Mexico. If you have any questions regarding this application, please contact me at 505/622-6182.

If you have no objections to the proposed Directional Wellbore, please sign below and return one copy of this letter to Marbob Energy Corporation.

Sincerely,

Mike Hanagan Geologist

MH/mm Enclosures

YATES PETROLEUM CORPORATION has no objections to the proposed Directional Wellbore:

By:

Title

Mice-Praciden

Date:

January 8, 1997

This waiver is subject to Marbob's agreement that they will not oppose YPC on a like test conducted on the off-set acreage.

CMD : OG5SECT ONGARD

INQUIRE LAND BY SECTION

01/27/97 13:07:40 OGOMES -EMFC

PAGE NO: 1

Sec : 12 Twp : 11S Rng : 27E Section Type : NORMAL

| D | С | В | |
|--------------------|------------------|-------------------|-------------------|
| 40.00 | 40.00 | 40.00 | 40.00 |
| TWR | TWR | TWR | TWR |
| B08385 3 11/49 | B08385 3 11/49 | VA0582 04/97 | VA0582 04/97 |
| AMOCO PRODUCTION | AMOCO PRODUCTION | YATES PETROLEUM C | YATES PETROLEUM (|
| · | A | | |
| E | F | G | |
| 40.00 | 40.00 | 40.00 | 40.00 |
| TWR | TWR | TWR | TWR |
| B08385 3 11/49 | B08385 3 11/49 | VA0582 04/97 | VA0582 04/97 |
| AMOCO PRODUCTION | AMOCO PRODUCTION | YATES PETROLEUM C | YATES PETROLEUM (|
| | A | i | i |
| PF01 HELP PF02 | PF03 EXIT P | F04 GoTo PF05 | PF06 |
| PF07 BKWD PF08 FWI | PF09 PRINT P | F10 SDIV PF11 | PF12 |

| Descripti | on: All Sec. 13. | Com. | · · · · · · · · · · · · · · · · · · · |
|------------------|--|---------------------------------------|---|
| Ext: 4/2 Sec. 14 | on: All Sec. 13. 2(R-10420,7-17-95) | | 苏 海、在 ,被警员 |
| | · 医糖硷 医高级 | | A SECTION AND THE PARTY OF THE |
| | | | |
| | | · · · · · · · · · · · · · · · · · · · | |
| | The Market of the Arts | Carlot Spark | · San Maria Control of the Control |
| | | | The special section is |
| | | | |
| | | | |
| | | | |
| | ers s | | |
| | Ď | | |
| | | | and the second second |
| | | ··· | |

| TC |)WNS | HIF | · // | .5 | oui | 4.6 | ë. | RAN | GE | 28 | E | 25 | <i>j</i> | | NM | IPM | 拉拉 | | | | 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
|----|------------|----------|------------------|------------|-----------------|-----------|--------------|-------------|---------------|---------|----------|-------------|----------------------|------------------------------|-------------------|----------------|------------------|---------------|---|-------------|---|---|------------------------------|
| | | | | | | | | | i Ø | 1 | | i 博 | | | 本ない | 1 | | 9 | 1.50 2.11 | 4,727 24 | 4.5 | 旗 | 110 |
| | | | | | \$7 1.5 | | , 19. 19. | * | 2. 2.9 | | · 剂 | | ¥ | | | | * 4. |) 7 | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | · · · · · · | 180 | 3 9 1 1 15 | |
| | — 6 — 1 | | | | _ 5 | | \$ | | | 1.0 | | | | 3 | | | ¥. | 1.39 | | | | (1.6) (4) | 3 3 4 |
| 1 | | 1 | 6 | | | e produce | <u> </u> | 1.0 | | | , t | | k gra | | * 净 | | f Y | | 74.7 | , | 4 | | (Lak |
| | | | -,-,-; | | | | | 3 | 147 31 | , | úř. | 8 | 36 | 74 | 142 | 19.5% | 94. 94. | ر پر | ÷// | (4) | : ,\ - | | 1 |
| | | , | 1 1 1 1 | | _ | | | | | ۔ ا | 24 35 | | 1. 4.7 2.73 | | 14. 14. | \$ 17 | - 1 | 7 | E. | | -1 |) 2 – | , s. 1 _. |
| | | 117 | | | | , | | | | , | j i | 1 | 5 %. - 14 | o - L | | 2 40 12 | r (T | 36 | \$5.5° | 12. | | | |
| | | | 7 % | | : |) f = | н | | , k, | À | | . 9° | r i | | | OX CX | | 7.3 | 10. 10. | | Ų÷°, | 200 | |
| | | | | | | | | 4 | . 75° | | | 5 / 6 1 | | 1 f | د از د ازود به | | | | u, | | | 7 | 37.7 |
| | | \$ P. | | | | | 5 1 1 | | | 6 - | 1.46 | | | _流 。 5 一 | ٠ ۲ | . Š. | 1 | | 1.54 1 | | -1 | ر د څخ | *** |
| , | | 8 – | 3. | | | / _ | | 400 | | Ĺ | | 1 | * 17 ₀ | ر. ایکارا | ay injuries | 8 | | \$ 15 | 4 | | | Ľ | |
| | · | | | 9 | \$2 | 1 | , | | 漂 | + | 3. 1 | 36 | 沙湾 | | | 再编 | | Ů. | 热 | \$ (3) | 96 (2 | | <i>h</i> . |
| | | • | 1 | | \$ (1) | | | | , (N. | 7. n. | | 大家的 生子的 | ŶŶ. | * 9 | | . 43 | | 湿 | | \$ 10 | h | 2 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| | i | 7.55 | 1. | | - 4,4 | ୮ ତ= | 45 4 | | | 1 1— | | | - 2 |) クー | , | 4 (1) 1 (1) | - 2 | ا م | | <u> </u> | - 2 | ā — | 1000 1000 1000 1000 |
| | | 7 | | | | U – | | 454 | 3 2 | | | 18. July 1 | | | 17 t | 151 | | . J. | r Ç | | ٠ | _ | 1 |
| | | | 12 | | | | | 543 | مرد. الع) | i in | WA. | | 3.4 | 4 | ۇسىر ئۇسىر | 6, | Y 35 | | <i>4</i> , | 4 | | Bet | |
| | | * ; | | | | | | <i>T.</i> | ,75 | 4 | 350 | i. |) Fak | | , ¥, | ¥1. | | 11.12 | }a | , f. | | | ₹ 2.5° |
| • | | | .: | | | | - 2 | Á | 9 | 8 - | . 1 | : 6 | | 7 | | 3 | ر | 6- | * | | _ 2 | 5 | |
| ٠. | -3 | 0 - I | 1 (c) | | - 2 | 9 – | | . (7) 11 | \[\frac{2}{3} | | ъ, | . st. | -2 | | i le i | 4 | . (s) (a () | 1 | 14. | | | <u> </u> | |
| 1 | 1.0 | · in | - ; | | | | į, | 2) 7 | 13 | | | | - 103 - 17, | й ,. | 4 Tg. | 1 | | 1 | 3 J. | , \$1 - | | | L |
| | ٠, | . 1 | | | | | | . 10 | · 54 | | ٠, | 1 | 1. 2. 1. 2. 2. | | | . 4 | : 0 | 1.7 1.24 | T. | ÷ | ં | 4 | |
| | | _ | | | | | ;÷ | | | 3 - | | | , F | 4- | | 2 21 3 | L, | 5 | di di | , ÷ | _ 3 | 6 – | 1 |
| | -3 | 1— | | | T 3 | 2 - I | , | Ŷ | i. | 14 | 186 | i. Yesiy | | | | | | | . स १ | | | | |
| | | 7. | | | | , | 4 | a a | · 10 | | 1 | | | | - | | | ı; . | 1 | | - 1. 1 | | L |
| ח | 0 (1 | 1 | nt i | 0 11 | : 2 | 1/2 5 | ا ۾ | 18 | , j.; ' | 94) | | v 13. | | | | | Asia. | 1.1 | | ٠. ٠. | , u.s. | | |
| 21 | <u> </u> | -4 | <u> </u> | <i>476</i> | ب <u>حث</u> | | | | 1184 | 1.5 | | | | i - | | | e ta g Karang | - | 7 · · · · | | ikos į | | |

| Description | n: 72 Sec. 18. | A STATE OF THE STA |
|-------------|--|--|
| | | And the second s |
| | The state of the s | |
| | The second second to be the second to the second | the second second |
| | | |
| | The second of th | Military and Andrews Constitution |
| | | |
| | | |
| | | |
| | | A STATE OF THE STA |
| | | |
| | | 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 |
| | | |
| | | to the second |

| TC | WNSH | II | | -5 | OU | th | The same | RAI | VGE | 28 | - <u>E</u> | a s | E | | N | (PM | | 11.5 | | | The state of | | |
|----|------------|-----------|--------|----------|------------|----------------|--|-----------|-------------------------------|----------------|---------------|---------------|---|----------|---------------------------------------|---|---------------|-------------------------|--|---------------------------------------|----------------|----------------|---|
| .: | | _ | | | (g) | | | | , ;; , ;;, | 1 | | 1 | 1 | 多。 | | 4 | | が対 | | | 191 | 1.4 |] |
| | [6 | | | jt. | | | | | | [| | | 7 | | | 3 3 3 3 3 3 4 5 4 5 5 5 5 5 5 5 5 5 5 5 | 1 | 2 | , i | | 37.57 | | |
| | - | | | | 7 |) | , v | | - | | | 78. 17. | 4 1/4 | 5 | | · " | 34 - 5 - (| 上载 | 7. Try | (the | | 1 1/2 1 1/2 | |
| j. | | | | | N. | | 1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | ij. | | , , ; ; | 7. ÇŞ | 3 | 33 | | 188 | 4 | r. | ار اراز اراز اراز | y 23 | , ė, | : 13 | | ١ |
| | | | | | | | |). [2] | | | 116 |) 북, | 1747 | A. | | 一種 | 3.53. 1.73 | , <u>2</u> ,2 | | | 1 | i , | 1 |
| | 7 | | * | | | | | | $(i_{1_{\underline{i}}}^{i})$ | | 1-40 | | i. | 1.46 | * | | | 3 | 該 | | 爱 | | 1 |
| | - <i>,</i> | | | | | 3 — I | | | | 9 — I | 1 452.7 31 | 14 | 1 | .O | | \$ 16 | -1 | 1 | 11.00 | - 1. | -1 | 2 – 1 | 1 |
| | | | | | | | | D. | | 14 | : .i,t ~:: | ž dy | 55 | 7 4 | 3 . 33. | · 1 | | 235 | : 50g | | 考 | 1 0 | |
| | | | | | | , | 1.0 | | ् | | 71 13 | * | 32 | 000 | 7.X 1.97 | - A | 虚 | 7 | | ; <i>(</i> 2). | ₩. | | 1 |
| | | | \neg | | | | 5. 1 | सून) | | _ | | 100 | | 450 | 8 | 1. 18 J | | 建 | 7. | (r) | A-2, | ¥4 | |
| 1 | - 18 | 7 | | - | -1 | 7 - | | | -1 | 6 - | | 额 | Ţ | 5- | , e | ا کر | 1 | 4 - | 100 K | | -1 | 3— | 1 |
| | | | | 1 | | | ν , • ν ξ | 833 | | , 1,4 / 11 | 77 | | (,; ;) (,) | | (9) | | | 12 12 2 | e, Exer- | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 劳 | 10 | |
| 1 | | | | .2. | 1.29 | | | - 2 | 1 | 2 | 2.5 | i fra Life | 7 | · 图 | | | , | | - 7 | /A* | 1 | ig. | 1 |
| 1 | + | 7 | | | 1/2/0 | | 9 | i de | | Qui | | 11. | 1.6 | 1 | () | 18 (SE) | 3 3 T | · **/ | | | 1) | 1952 | 1 |
| † | -19 | 1 | | | – 2 | 0 — | | | - 2 | 1— | | | - 2 | 2- | | | - 2 | 3 - 3 - 2 |)) (| | - 2 | 4 — | İ |
| 1 | | 1 | | | | | 3.4 | | · 14. | 10 | | , W | , 3 % | 1 6 4 | 3 11 1 | ,) } | | | | * | | · \$ | t |
| 1 | | 1 | | | • | _ | | 1 | 1. | 7.5 | | . 4 | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | \$: 7 | 1,5; | -27 -37 -1 | ¥2. | , "E . | 1,15 | Ì |
| 1 | + | 1 | 一 | | \exists | | | | | | 2 | 14 | d -32-7 | 2 di | 1 7 2 | A | 7 J | 4 | | e. | , <u>, ,</u> , | | Ì |
| 1 | -30 | + | | | - 2 | 9 – | Q _n | . 3 | -2 | 8 – | > | * | ⊢2 | 7 – | i ir | 2 選 | - 2 | 6- | a de la companya de l | 3. | - 2 | 5,- | t |
| † | + | 7 | \neg | 7 | | | | | - 1 | | | | 1 | 43 | | 1 120 | Sign | - 15. 15. | 100 | .00.7 | *** | 51.6 | t |
| 1 | \top | 7 | 寸 | | | · | | | | | | | L. | | | 4 | | . ₍₂₎ | · A | | 150 | , | İ |
| † | + | 7 | 1 | 7 | \dashv | • | | | | | N. | | y | - 3 | 37 | | , etc | | <u>.</u> | * | | 70. T | t |
| + | - 31 | + | 十 | \dashv | - 3 | 2 - | | | 3 | 3 – | | | -3 | 4- | | | - 3 1 | 5 - | (A.) | | - 3 | 6 – | ł |
| + | \dashv | \forall | - | - | | | | | : :: i: | | | , ik. | | | | , | | 4 | 18.00 | | | - | ł |

| Description | <u>n: 72 Sec.</u> | 18. | eren er er er er er er er er er er er er er | | i de la companya de l |
|---------------------------------------|-------------------|-----|---|--|--|
| | | | | | est to the second secon |
| · · · · · · · · · · · · · · · · · · · | | | | | |
| | · | | | | |
| | | | | and an expedience of the first of the second | . ទូកទូក |
| | | | | | |
| | | | | | |
| · | | | | | |
| | | | 14.4 | | |
| | | | | | |
| | | | | | i Sw. |
| | | · · | ,*** | | |
| | | | | | |

| TC | WNS | HI | P // | رُّ ل - | o u | +1 | , 🕬 | RAI | IGE | 2 | 7 - 1 | Ea | 56 | | N | 1PM | 東京 | | | | | | 4.7 |
|--------|-----------|----------|-------|-------------|------------|-----------|------------------|--------------|------------------------|--------------|--------------------|--|--|--------------|-------------------------------|----------------|---------------------|-----------------|--------------------|---------------------------|----------|---------------|-----|
| | | _ | | | ξ <u>.</u> | مر ز | | | | · , ý | | 2 | الله الله الله الله الله الله الله الله | · 新雅· | · C | | | | | į į | 1.16 | ÷ 3 | |
| | | 5 – | | | | 5 — | 1 14 | 4. 1 | | | | * | | 3 | | - 項 数; | | 7 | - 沒 | | | | |
| | | , L | 2,5 | | | . | 3,0 | | 9 | 4 | 4,51 | 涉 |) | | 中国 | 1.2 | | | 1 4 | ē 🎎 | L . | | |
| į. | | | | | 4 | | 74.5 | , | | . 7 | - 1g | | | 100 | | | | F. (2) | 。對 | 養養 | 19 A. S. | 金属的 | |
| - | | | 7 | | L | 1. | | | | i i | E | 19 | $\frac{3}{2}\frac{M_{b}^{2}}{\Gamma \gamma^{2}}$ | H del | 1 | ÷ | · 🕉 | 4 | | \$ | 1771 | 100 | |
| | |) 7 — | | | | ј. В — | | | |) 9 — | 凝 | |) [1] [1] | 0 | 加州新 | 34-377 Au 3 | | | 報 | | Vj. | | 1 |
| | | <u> </u> | | | | | 2.0 | | . 33 | | + 9 - 47 | * & | | 1.7% | 2 127 2 | n - | 9 10 1 2 12 12 1 | 45°4 66.1 | · 188 | 35 | Ü | 2 | L |
| | | ٠. | | | , | 1 3 | , j | | 3, | | | 1 | 4. Y | 3 | | 7 | $\frac{1}{2}$ | et. | 4 | | 5 | W. | |
| | | | * 1 | ر د د | i si | | 2 4 4 4 | | di di | ;;;; ;;;; | | ** | i 107 | | | | 18.70 | (4) (A) | \$ \frac{1}{2} | , | | : (6 | |
| | - 1 | 8 – | n 1. | | _1 | ! 7 — | 10 | i int | -1 | 6 – | | | 1 | | \$) | ٠., | 1 | 4 | , \$1 , C | , Li | 1 | ի չն 3— | |
| _ | | | | ¥ | | | | 11 | | | | | 3.2% | 1 4 | | | | e Parta 2 B | 11.0 (21.) | 44. | K . * | | |
| ك | | | | 3 () | * | | A. | , | 1. 2. 1. 2. 2. 1. | | 12 P | 74° - }/ | | N AM | | \$ ## # | | THE STATE OF | ्रही १५३ | ر د ما د ما د ما | | | ŀ |
| | | : | , 12. | 货金 | | · 🔨 | بر. د . | . 4 | - 1 | | | ا ئۇيدۇ را | 大學 | 海岸 | i W | | 1 6 | 4.61 | 시 (1) - 11 | 强. | | મું મુ પુર | L |
| | ∵ 1° | 9 — | 14 | | – 2 | 0 – | | . (1) | - 2 - 2 | 1— | | | - 2 |) 2 | , <u>S</u> , | | - 2 | 3 | · K | | - 2 | | L |
| | | | 1 | . 1 | | · . · | * * | :' | | Î j | • | | 2 // 2 / (2) | 3 (3) | . <u>\$</u> 20 | | | | | ÷ | ę | | L |
| | | | | | | ٠ | | <u>.</u> Sig | | i hi | ١,, | | i de la casa de la casa de la casa de la casa de la casa de la casa de la casa de la casa de la casa de la cas La casa de la casa de La casa de la casa de | × 5, | $\hat{X}_{j},\hat{f}_{j}^{K}$ | | | | 1.5 | *** }}. | | <u></u> | L |
| | | | | | | | · . Vo | : Ů | # # | | · | - M (| 1 | 4 8 - 1 | 3 d. 1 | | 3,11 | 2.00 | 2 . 54 . 11 . 5 | | 4. | 134 | |
| | ا 3(| | | | - 2 | | , 4. | . ; | -2 | ે. 8 – | 21 | i#i | · - 2 | 7 | 12) 41) 13) 14) | s (*) | - 2 | 6 – | | 1 | - 2 | 5 — | Ŀ |
| 1 | | | 177 | | | | | | - 3 | | | 100 | 9 38 | 1.1 | -4 | | 81 | 4.5 | | | | <u> </u> | L |
| 1 | | | Ų. | | | | 1 | <i>ξ</i> | ; 34. | | 1, | $\frac{\mathcal{B}_{E}^{N}}{dr_{e}^{N}}$ | 1. 1 | | 10 E | () | | Q2 | $r = \frac{1}{2}$ | 3 4 75 | . fj | | L |
| \bot | _ | | | | , | | 32). | 74 | لو _م ز ج | | *1 | 1.50 | 14 | | <i>P</i> ** | · | | , j | 1.15 | . ş | ¥. | | L |
| | ا :3 – | 1 — | | | - 3 | 2 - | ~ | 1, 24 24 | - 3 - 3 | 3 | | | ्र — 3 | 4 | | | - - 3! | 5 – | 1 | | 3 | 6 — | L |
| _ | | | | | | | \neg | • | | 3 | _ | | | | 1 (p) | | | F | 黎 | | | | L |
| | | | | | :} | | , | | | 3 | | | , , | _ : | . 4 | | | 55 AV 2 - 55 | | | | | |

| Description: | A11 Sec. 13. | | | week by the |
|--------------------|-----------------|-------------|---------|-------------|
| Ext: 125ec. 12 (R- | -10420,7-17-95) | tyle egyi | | |
| | | | | |
| | | A STATE OF | Tr. Tr. | |
| | | | | , |
| | 建设设施 医二种 | State Sales | en fo | |
| | | | | |
| | | er er | | - a-5 |
| | | · | | |
| | | | 17 | |
| | | | | |
| | Section 1 | | | |
| | 3- | | | A. |
| | | | | • |