



JUN | 5 2000

energy corporation

June 13, 2000

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

Attn: David Catanach Engineer

> RE: M. Dodd "A" Federal No. 48 - API #30-015-30790 Down Hole Commingling Application

Dear Mr. Catanach:

Marbob Energy Corporation submitted for NMOCD approval an Application for Down Hole Commingling on January 6, 2000. We are seeking approval to commingle production from the Grayburg San Andres with Yeso production in the above referenced well.

Since submitting, you have requested further information on our method of determining the submitted allocation percentages. Crude allocation was determined from the beginning Yeso production curve from the M. Dodd A Federal No. 48 located 900' FSL and 330' FEL, Section 22-17S-29E versus established Grayburg-San Andres production curve from the M. Dodd A Lease in Sections 14, 15, 22-17S-29E. As you can see, the ultimate recovery from this

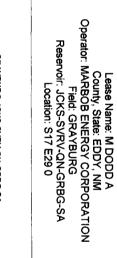
well in the Yeso should be about 140,500 barrels of oil and 178,000 mcf of gas. The average recovery per well in the Grayburg San Andres formations was 104,924 barrels of oil and 261,690 mcf based on the history and present decline of the 38 producing wells on the lease. The current cumulative production from the A-27 as of January, 2000 is 33,010 barrels of oil and 160,766 mcf of gas. This well was completed in zones from 2600 feet to 3350 feet subsurface. We believe that additional pay exists below 3350 in the lower San Andres which will allow us to recover as much oil from the Grayburg San Andres interval as the A-27 will ultimately recover. We do not believe that these lower zones will contain the amount of gas produced from the upper San Andres zones. As such, we have estimated oil recovery of 39,500 barrels from the San Andres and 87,600 mcf of gas. Because of the close proximity of this well to the A-27, we do not believe significant reserves in those zones can be obtained. Certainly, there is considerable guess work in these calculations, but we believe they reflect the best information currently available in conjunction with our knowledge of this reservoir. These estimated ultimates then became our basis for the allocation percentages.

If you need any additional information, please contact me.

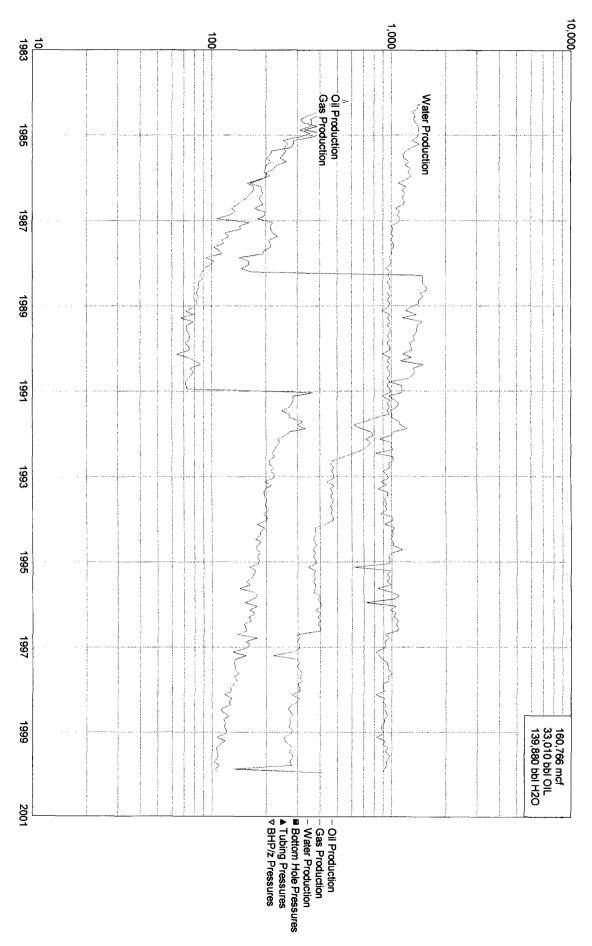
Sincerely,

Dean Chumbley

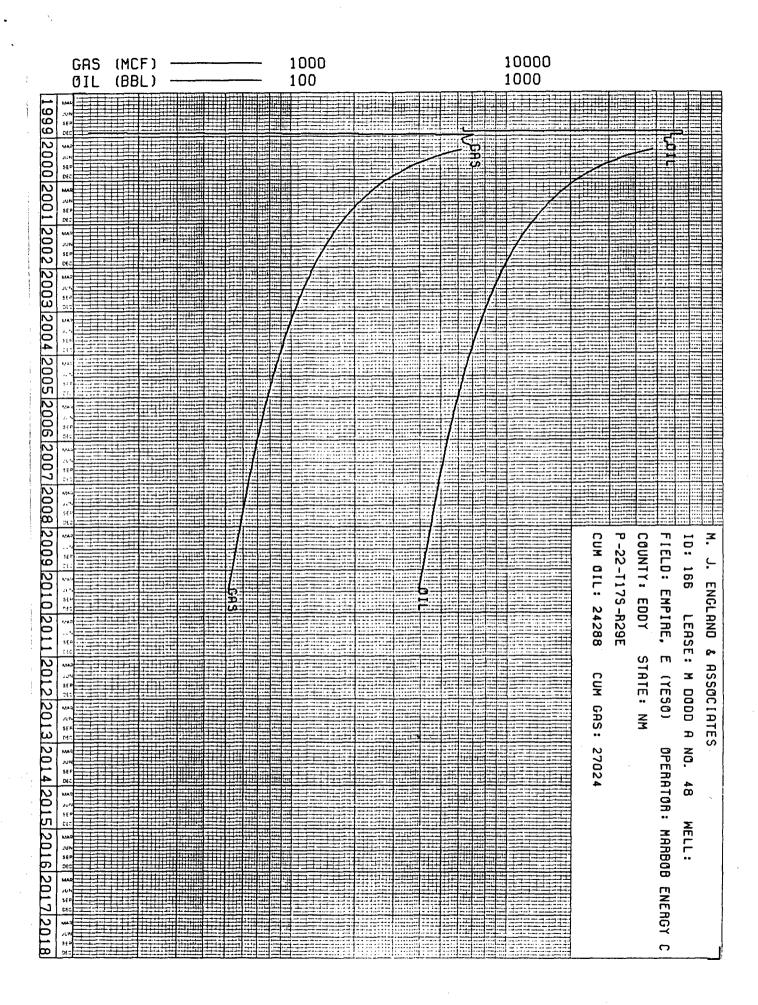
Land Department





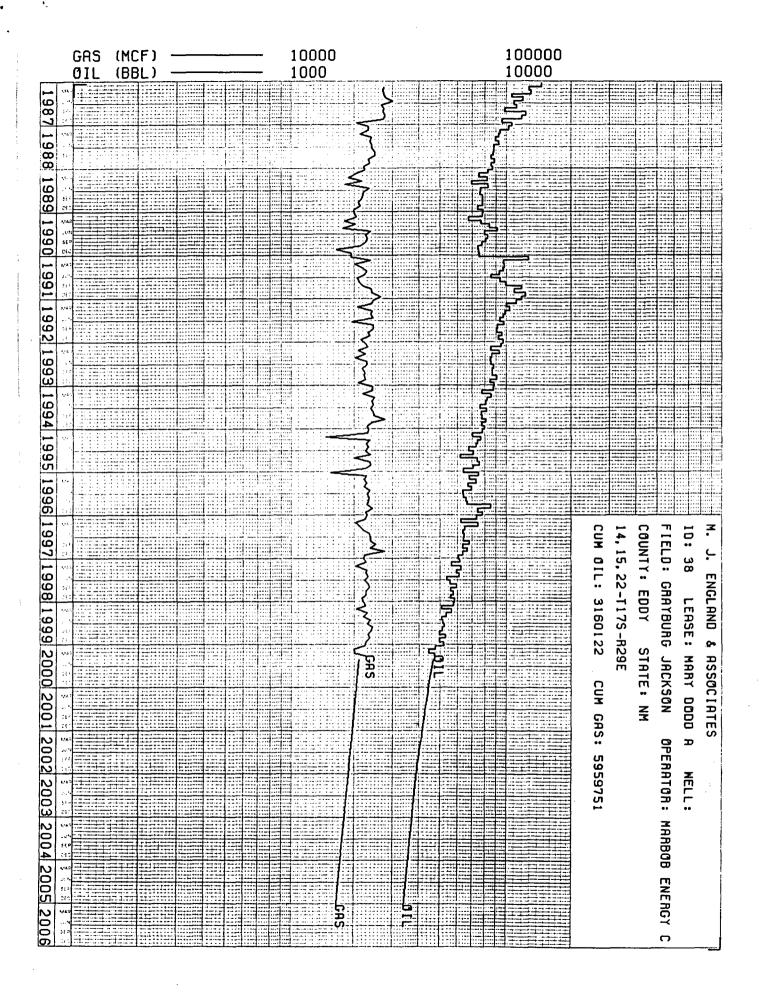


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| ទ | G | 77.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7 | DISCOUNTED | TOTAL \$ 171,052 |

MARBOB ENERGY CORPORATION - EVALUATION OF FUTURE NET RESERVES AND SALES INCOME ATTRIBUTABLE TO CERTAIN LEASEHOLD INTERESTS AS OF APRIL 1, 2000 - ESCALATED PRICES AND COSTS -



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ENERGY CORPORATION - EVALUATION OF FUTURE NET RESERVES AND ATTRIBUTABLE TO CERTAIN LEASEHOLD INTERESTS AS OF APRIL 1,
- ESCALATED PRICES AND COSTS -SALES 2000

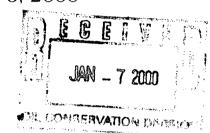
RESERVOIR: SR-QN-GB-SA-OIL-PUMPING



2160

January 6, 2000

Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505-6429



RE: Application for Downhole Commingling

M. Dodd "A" Federal No. 48 - API #30-015-30790

Gentlemen:

Marbob Energy Corporation respectfully submits, for administrative approval, the enclosed Form C-107-A. This application requests approval to down hole commingle production from the Seven Rivers, Queen, Grayburg, San Andres, Glorietta, and Yeso formations.

Please do not hesitate to contact me should you have any questions or require any additional information.

Sincerely.

Dean Chumbley Land Department

DC/mm Enclosures DISTRICT I
1025 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

Marbob Energy Corporation

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 Form C-107-A Revised August 1999 APPROVAL PROCESS:

_Administrative __Hearing

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING ___YES ___NO

P. O. Box 227, Artesia, NM 88211-0227

| M Dodd "A" Federal | | -22-17S-29E | Eddy | | | | | | |
|--|--|--|---|--|--|--|--|--|--|
| Lease | Well No. Unit Ltr. | : - Sec - Twp - Rge S | County secing Unit Lease Types: (check 1 or more) | | | | | | |
| OGRID NO. 14049 Property Code | 6504 API NO. 30-01 | 5-30790 Federal X , Sta | te, (and/or) Fee | | | | | | |
| The following facts are submitted in support of downhole commingling: | Upper Zone | Intermediate Zone | Lower Zone | | | | | | |
| Pool Name and Pool Code | Grayburg Jackson (SR-Q-GRBG-SA) | | Empire (Yeso) East | | | | | | |
| Top and Bottom of Pay Section (Perforations) | To be perforated 2675' - 3350' | | 4028' - 4303' | | | | | | |
| Type of production (Oil or Gas) | 0il | | 0i1 | | | | | | |
| Method of Production (Flowing or Artificial Lift) | Artificial Lift | | Artificial Lift | | | | | | |
| Bottomhole Pressure Oil Zones - Artificial Lift: | a. (Current) | а. | a. | | | | | | |
| Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original | b. ^(Original) | b. | b. | | | | | | |
| 6. Oii Gravity (EAPI) or Gas BTU Content | 36.3° | | 37.1° | | | | | | |
| 7. Producing or Shut-In? | Awaiting Perforation | | Producing | | | | | | |
| | Expected to be margina | 1 | Yes | | | | | | |
| Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/ water rates of last production | Date: N/A Rates: | Dete: Rates: | Specing Unit Lease Types: (check 1 or more) ral X, State, (end/or) Fee Lower Zone Empire (Yeso) East 4028' - 4303' 0i1 Artificial Lift a. b. 37.1° Producing Yes Date: N/A Rates: N/A Date: 12/28/99 Rates: 0-212 G-223 W-627 Oil: 78 % Gas: 67 % ris based upon some other method, submit ections or other required data. ail? Yes No mations not be damaged, will any cross-s No (If No, attach explanation) X Yes No (If Yes, attach explanation) er of Public Lands or the action. X Yes No page dedication. acch explanation.) poporting data. | | | | | | |
| Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data | Date: | Date: | Deta: 12/28/99 | | | | | | |
| * If Producing, give date andoil/gas/ water rates of recent test (within 60 days) | Rates: N/A | Rates: | Rates: 0-212 G-223 | | | | | | |
| Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) | Oil: Gas: 22% 33% | Oil: Gas: % | Oil: Gas: 67% | | | | | | |
| If allocation formula is based up attachments with supporting data. | on something other than current ata and/or explaining method ar | or past production, or is based und providing rate projections or | pon some other method, submit other required data. | | | | | | |
| Are all working, overriding, and If not, have all working, overrid | royalty interests identical in all ling, and royalty interests been i | commingled zones? notified by certified mail? | <u>X</u> Yes No Yes No | | | | | | |
| Will cross-flow occur? Ye flowed production be recovered | is $\frac{X}{X}$ No $$ If yes, are fluids co , and will the allocation formula | empatible, will the formations no be reliable Yes No | t be damaged, will any cross- (If No, attach explanation) | | | | | | |
| 12. Are all produced fluids from all commingled zones compatible with each other? X Yes No | | | | | | | | | |
| 13. Will the value of production be | | | • | | | | | | |
| 14. If this well is on, or communitize United States Bureau of Land M | | | c Lands or the Yes No | | | | | | |
| 15. NMOCD Reference Cases for R | ule 303(D) Exceptions: ORDE | R NO(S). | | | | | | | |
| * Froduction curve for * For zones with no pr * Data to support alloc | reach zone for at least one year, roduction history, estimated pro- cation method or formula | spacing unit and acreage dedically in the specific of the spec | ation.) ita. | | | | | | |
| hereby certify that the information | above is true and complete to ti | he best of my knowledge and b | elief. | | | | | | |
| SIGNATURE And Amel | MTITLI | E Land Department D | ATE1/5/00 | | | | | | |
| TYPE OR PRINT NAME <u>Dean</u> | <u>Chumbley</u> | TELEPHONE NO. | 505 748-3303 | | | | | | |

DISTRICT I P.O. Dox 1980, Hobbs: NM 88241-1980



State of New Mexico Energy, Minerals and Natural Resources Depar

Form C-102 Revised February 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., Aztec, NM 87410

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

| API Number 30-015-30790 | | | Pool Code 28509 | | | CREAGE DEDICATION PLAT Pool Name GRBG JACKSON SR Q GRBG SA | | | | | |
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| UL or lot No. | Section | Township | Range | Lot Idn | Feet from th | e North/South | line Fe | eet from the | East/West line | County | |
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DISTRICT I P.O. Box 1980, Hobbs; NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Depart

Form C-102 Revised February 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., Aztec, NM 87410

DISTRICT IV P.O. BOX 2086, SANTA FE. N.M. 87504-2088

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

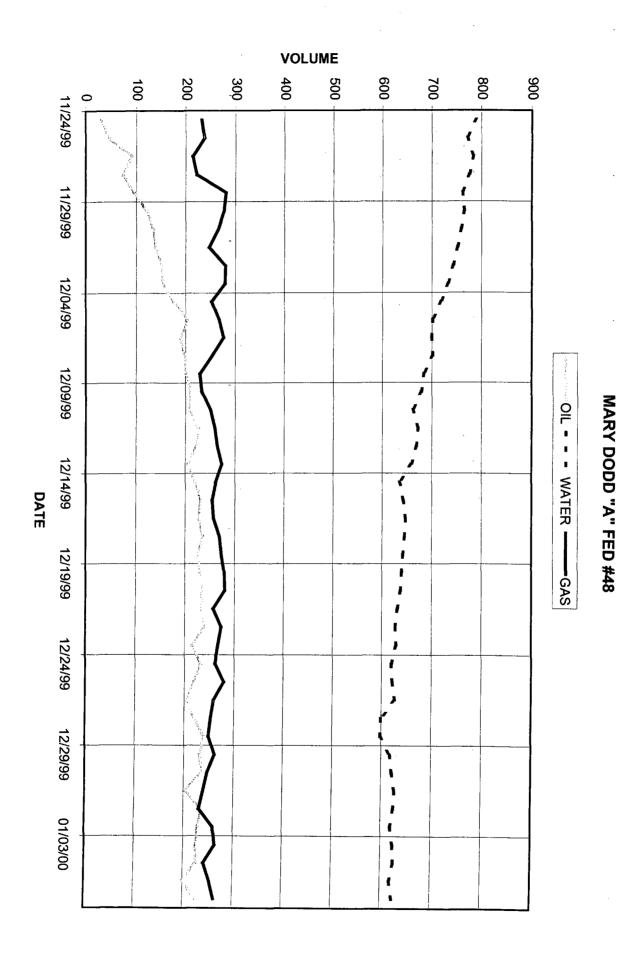
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| 30-015-3 | | | · · · · · | 96610 | Property Nam | | Teso Lasc | Well Num | ber |
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| OGRID No | ·. | | | | Operator Nam | | | Elevatio | p |
| 4049 | | <u> </u> | | MARBO | B ENERGY CO | | | 3573 | 3 |
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| | · . | | | | | 0006 | Date Survey Signature & Protessions O Certagories | SUST 1, 1999 Sent 5/0 Communication of the communi | DMC |

1200 **100** 200 8 600 Jan-98 Feb-98 Oil&Gas Production Curve of Well: M DODD A No.:
027(98,99) Mar-98 . 98 98 Мау-98 98 FJ . Jul-98 Aug-98 Sep-98 88 ડਾਂ 98 -VQV-98 P ^{ქგე}-Feb 99 **Mar**-99 99 -199 May-99

Time(Month-Year)

Jun 99

. Jul-99 Aug-99 Production:
Oil(BBLS),Gas(MCF),Water(BBLS)





January 6, 2000

United States Department of the Interior Bureau of Land Management 2909 West Second Street Roswell, New Mexico 88201

Gentlemen:

Marbob Energy Corporation has made application with the New Mexico Oil Conservation Division to downhole commingle production from the M. Dodd "A" Federal No. 48. The NMOCD requires applicant to notify BLM in writing of this application if the well is located on federal land. Marbob's M. Dodd "A" No. 48 is located in Unit P of Section 22 in Township 17 South and Range 29 East.

Therefore, in accordance with the NMOCD requirement, please find the enclosed copy of Application for Downhole Commingling Form C-107-A. Please contact me should you have any questions or need any additional information.

Sincerely

Dean Chumbley Land Department

DC/mm Enclosures